Term	Definition
	An abnormal end to a computer job; termination of a task prior to its completion because of an error
Abend	condition that cannot be resolved by recovery facilities while the task is executing.
	The maximum period of time that a system can be unavailable before compromising the
Acceptable interruption window	achievement of the enterprise's business objectives.
	A policy that establishes an agreement between users and the enterprise and defines for all parties'
Acceptable Use policy	the ranges of use that are approved before gaining access to a network or the Internet.
Access control	The processes, rules and deployment mechanisms that control access to information systems, resources and physical access to premises.
Access control	An internal computerized table of access rules regarding the levels of computer access permitted to
	logon IDs and computer terminals.  strong>Scope Notes: Also referred to as access
Access control list (ACL)	control tables.
Access control table	An internal computerized table of access rules regarding the levels of computer access permitted to logon IDs and computer terminals.
	The technique used for selecting records in a file, one at a time, for processing, retrieval or
	storage. The access method is related to, but distinct from, the file organization, which determines
Access Method	how the records are stored.  The logical route that an end user takes to access computerized
	information. strong>Scope Notes: Typically includes a route through the
	operating system, telecommunications software, selected application software and the access control
Access path	system.
	The permission or privileges granted to users, programs or workstations to create, change, delete or view data and files within a system, as defined by rules established by data owners and the
Access rights	information security policy.
Access server	Provides centralized access control for managing remote access dial-up services.
Accountability	The ability to map a given activity or event back to the responsible party.  The individual, group or entity that is ultimately responsible for a subject matter, process or
	scope. <a href="mailtotada">scope Notes:</a> <a href="mailtotada">scope.</a> scope. <a href="mailtotada">scope.</a> <a href="mailtotada">s</a>
Accountable party	"management" is equivalent to "accountable party."
Acknowledgment (ACK)	A flag set in a packet to indicate to the sender that the previous packet sent was accepted correctly by the receiver without errors, or that the receiver is now ready to accept a transmission.
Additional to the state of the	A recovery strategy that involves two active sites, each capable of taking over the other's workload in
	the event of a disaster.  strong>Scope Notes: Each site will have enough idle
Active recovery site (Missered)	processing power to restore data from the other site and to accommodate the excess workload in the
Active recovery site (Mirrored)	event of a disaster.  A response in which the system either automatically, or in concert with the user, blocks or otherwise
	affects the progress of a detected attack.  <strong>Scope Notes: </strong> Takes one of
	three forms: amending the environment, collecting more information or striking back against the
Active response Activity	user. The main actions taken to operate the COBIT process.
Address	Within computer storage, the code used to designate the location of a specific piece of data
	The number of distinct locations that may be referred to with the machine address <pr><pre><pre><pre><pre><pre><pre><pre>&lt;</pre></pre></pre></pre></pre></pre></pre></pr>
Address space	number of bits in the machine address.
	The method used to identify the location of a participant in a network.  - - 
Addressing	Notes: Ideally, specifies where the participant is located rather than who they are (name) or how to get there (routing).
Addressing	or now to get there (routing).
	The calendar can contain "real" accounting periods and/or adjusting accounting periods. The "real"
	accounting periods must not overlap and cannot have any gaps between them. Adjusting accounting
	periods can overlap with other accounting periods. -br/>-strong>Scope Notes: For example, a period called DEC-93 can be defined that includes 01-DEC-1993 through 31-DEC-1993. An
	adjusting period called DEC31-93 can also be defined that includes only one day: 31-DEC-1993
Adjusting period	through 31-DEC-1993.
Administrative control	The rules, procedures and practices dealing with operational effectiveness, efficiency and adherence to regulations and management policies.
	A software package that automatically plays, displays or downloads advertising material to a
	computer after the software is installed on it or while the application is being
	used.\tr/> strong>Scope Notes: In most cases, this is done without any notification to the user or without the user's consent. The term adware may also refer to software that displays
	used. vbr/> <strong>Scope Notes: </strong> In most cases, this is done without any notification to the user or without the user's consent. The term adware may also refer to software that displays advertisements, whether or not it does so with the user's consent; such programs display
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Adware	used. vbr/> <strong>Scope Notes: </strong> In most cases, this is done without any notification to the user or without the user's consent. The term adware may also refer to software that displays advertisements, whether or not it does so with the user's consent; such programs display
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Adware  Alert situation	used. used. dr/> strong>Scope Notes: In most cases, this is done without any notification to the user or without the user's consent. The term adware may also refer to software that displays advertisements, whether or not it does so with the user's consent; such programs display advertisements as an alternative to shareware registration fees. These are classified as adware in the sense of advertising supported software, but not as spyware. Adware in this form does not operate surreptitiously or mislead the user, and it provides the user with a specific service.  The point in an emergency procedure when the elapsed time passes a threshold and the interruption is not resolved. The enterprise entering into an alert situation initiates a series of escalation steps.
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Alert situation	used. used. deriver or without the user's consent. The term adware may also refer to software that displays advertisements, whether or not it does so with the user's consent; such programs display advertisements as an alternative to shareware registration fees. These are classified as adware in the sense of advertising supported software, but not as spyware. Adware in this form does not operate surreptitiously or mislead the user, and it provides the user with a specific service.  The point in an emergency procedure when the elapsed time passes a threshold and the interruption is not resolved. The enterprise entering into an alert situation initiates a series of escalation steps.  A recurring journal entry used to allocate revenues or costs. s/strong>For example, an allocation entry could be defined to allocate costs to each department based on head count.  The use of alphabetic characters or an alphabetic character string
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Allocation entry Alpha	used. der/> ver/> <strong>Scope Notes: </strong> In most cases, this is done without any notification to the user or without the user's consent. The term adware may also refer to software that displays advertisements, whether or not it does so with the user's consent; such programs display advertisements as an alternative to shareware registration fees. These are classified as adware in the sense of advertising supported software, but not as spyware. Adware in this form does not operate surreptitiously or mislead the user, and it provides the user with a specific service.  The point in an emergency procedure when the elapsed time passes a threshold and the interruption is not resolved. The enterprise entering into an alert situation initiates a series of escalation steps.  A recurring journal entry used to allocate revenues or costs. sort/>cbr/>cstrong>Scope Notes: For example, an allocation entry could be defined to allocate costs to each department based on head count.  The use of alphabetic characters or an alphabetic character string  Locations and infrastructures from which emergency or backup processes are executed, when the main premises are unavailable or destroyed. cbr/> cbr/>cstrong>Scope Notes: Includes

	A service that allows the option of having an alternate route to complete a call when the marked
	destination is not available <pre><pre>call destination is not available <pre><pre>destination is not available <pre><pre>call destination is not available <pre><pre>call destination is not available <pre><pre>call destination is not available <pre>call destination is not available <pre>cal</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
	the process of allocating substitute routes for a given signaling traffic stream in case of failure(s)
Alternative routing	affecting the normal signaling links or routes of that traffic stream.
American Standard Code for Information Interchange	See ASCII
	The process of cost allocation that assigns the original cost of an intangible asset to the periods
Amortization	benefited; calculated in the same way as depreciation.
	A transmission signal that varies continuously in amplitude and time and is generated in wave
Analog	formation. spring that varies continuously in amplitude and time and is generated in wave
, manuag	to material state in the state
	The examination of ratios, trends, and changes in balances and other values between periods to
	obtain a broad understanding of the enterprise's financial or operational position and to identify
	areas that may require further or closer investigation.  strong>Scope Notes:
Analytical technique	Often used when planning the assurance assignment
Anomaly	Unusual or statistically rare.
Anomaly detection	Detection on the basis of whether the system activity matches that defined as abnormal.
Anonymity	The quality or state of not being named or identified.
	An application software deployed at multiple points in an IT architecture. It is designed to detect and
	potentially eliminate virus code before damage is done and repair or quarantine files that have
Antivirus software	already been infected.
Appearance	The act of giving the idea or impression of being or doing something.
	Behavior adequate to meet the situations occurring during audit work (interviews, meetings,
	reporting, etc.). cbr/> <strong>Scope Notes: </strong> An IS auditor should be aware that
Annograpse of independence	appearance of independence depends on the perceptions of others and can be influenced by
Appearance of independence	improper actions or associations.
	A program written in a portable, platform-independent computer language, such as Java, JavaScript
	or Visual Basic.  <strong>Scope Notes: </strong> An applet is usually embedded in an
	HyperText Markup Language (HTML) page downloaded from web servers and then executed by a
	browser on client machines to run any web-based application (e.g., generate web page input forms,
	run audio/video programs, etc.). Applets can only perform a restricted set of operations, thus
	preventing, or at least minimizing, the possible security compromise of the host computers. However,
A1-1	applets expose the user's machine to risk if not properly controlled by the browser, which should not
Applet	allow an applet to access a machine's information without prior authorization of the user.
	A computer program or set of programs that performs the processing of records for a specific
	function.  <strong>Scope Notes: </strong> Contrasts with systems programs, such as an
Application	operating system or network control program, and with utility programs, such as copy or sort
	An evaluation of an application system being acquired or evaluated, that considers such matters as:
	appropriate controls are designed into the system; the application will process information in a complete, accurate and reliable manner; the application will function as intended; the application will
	function in compliance with any applicable statutory provisions; the system is acquired in compliance
Application acquisition review	with the established system acquisition process.
	The process of establishing the effective design and operation of automated controls within an
Application benchmarking	application.
A = 1! = ki = a = = k = l=	The policies, procedures and activities designed to provide reasonable assurance that objectives relevant to a given automated solution (application) are achieved.
Application controls	relevant to a given automated solution (application) are achieved.
	An evaluation of an application system under development that considers matters such as:
	appropriate controls are designed into the system; the application will process information in a
	complete, accurate and reliable manner; the application will function as intended; the application will
	function in compliance with any applicable statutory provisions; the system is developed in
Application development review	compliance with the established system development life cycle process.
	An evaluation of any part of an implementation project.  strong>Scope Notes:
Analination in all an about a society	Examples include project management, test plans and user acceptance testing (UAT)
Application implementation review	procedures.
	In the Open Systems Interconnection (OSI) communications model, the application layer provides
	services for an application program to ensure that effective communication with another application
	program in a network is possible.  strong>Scope Notes: The application layer is
Application layer	not the application that is doing the communication; a service layer that provides these services.
	An evaluation of any part of a project to perform maintenance on an application
	system. system
Application maintenance review	and user acceptance testing (UAT) procedures.
Application or managed consists provider (ASD/ASS)	A third party that delivers and manages applications and computer services, including security
Application or managed service provider (ASP/MSP)	services to multiple users via the Internet or a private network.
	A program that processes business data through activities such as data entry, update or
	query.  query.   
Application program	operating system or network control program, and with utility programs such as copy or sort
Application programming	The act or function of developing and maintaining application programs in production.

	A set of routines, protocols and tools referred to as "building blocks" used in business application software development. software development. software development of the building blocks related to functional characteristics of an operating system that applications need to specify, for example, when interfacing with the operating
	system (e.g., provided by Microsoft Windows, different versions of UNIX). A programmer utilizes these APIs in developing applications that can operate effectively and efficiently on the platform
Application programming interface (API)	chosen.
Application proxy	A service that connects programs running on internal networks to services on exterior networks by creating two connections, one from the requesting client and another to the destination service.
Application security	Refers to the security aspects supported by the application, primarily with regard to the roles or responsibilities and audit trails within the applications.
Application service provider (ASP)	Also known as managed service provider (MSP), it deploys, hosts and manages access to a packaged application to multiple parties from a centrally managed facility. The applications are delivered over networks on a subscription basis.
	Specialized tools that can be used to analyze the flow of data through the processing logic of the application software and document the logic, paths, control conditions and processing sequences.  sequences.   serong>Scope Notes: Both the command language or job control
Application software tracing and mapping	statements and programming language can be analyzed. This technique includes program/system: mapping, tracing, snapshots, parallel simulations and code comparisons.
	An integrated set of computer programs designed to serve a particular function that has specific input, processing and output activities.  <strong>Scope Notes: </strong> Examples include
Application system	general ledger, manufacturing resource planning and human resource (HR) management.
	Description of the fundamental underlying design of the components of the business system, or of
Architecture	one element of the business system (e.g., technology), the relationships among them, and the manner in which they support enterprise objectives.
Arithmetic logic unit (ALU)	The area of the central processing unit that performs mathematical and analytical operations
And interesting to diffe (ALO)	Advanced computer systems that can simulate human capabilities, such as analysis, based on a
Artificial intelligence	predetermined set of rules
ASCII	Representing 128 characters, the American Standard Code for Information Interchange (ASCII) code normally uses 7 bits. However, some variations of the ASCII code set allow 8 bits. This 8-bit ASCII code
ASCII	allows 256 characters to be represented.  A program that takes as input a program written in assembly language and translates it into machine
Assembler	code or machine language
Assembly Language	A low-level computer programming language which uses symbolic code and produces machine instructions.
	A broad review of the different agreets of a company or function that includes alaments not sourced
	A broad review of the different aspects of a company or function that includes elements not covered by a structured assurance initiative.  strong>Scope Notes: May include
Assessment	opportunities for reducing the costs of poor quality, employee perceptions on quality aspects, proposals to senior management on policy, goals, etc.
	Something of either tangible or intangible value that is worth protecting, including people,
Asset	information, infrastructure, finances and reputation.
	Pursuant to an accountable relationship between two or more parties, an IT audit and assurance
	professional is engaged to issue a written communication expressing a conclusion about the subject matters for which the accountable party is responsible. Assurance refers to a number of related
	activities designed to provide the reader or user of the report with a level of assurance or comfort
	over the subject matter.  <strong>Scope Notes: </strong> Assurance engagements could
	include support for audited financial statements, reviews of controls, compliance with required standards and practices, and compliance with agreements,
Assurance	licenses, legislation and regulation.
	An objective examination of evidence for the purpose of providing an assessment on risk
	management, control or governance processes for the enterprise. chr/> <strong>Scope Notes: </strong> Examples may include financial, performance, compliance and system security
Assurance initiative	engagements.
Asymmetric key (public key)	A cipher technique in which different cryptographic keys are used to encrypt and decrypt a message <pr><pr><pr><pr><pr><pr><pr><pr><pr><pr></pr></pr></pr></pr></pr></pr></pr></pr></pr></pr>
Asymmetric key (public key)	Colorad ong socope Notes. Canada See public key end ypuon.
	A high-bandwidth low-delay switching and multiplexing technology that allows integration of real-
	time voice and video as well as data. It is a data link layer protocol.  <strong>ATM is a protocol-independent transport mechanism. It allows high-speed data transfer</strong>
	rates at up to 155 Mbit/s. The acronym ATM should not be confused with the alternate usage for
Asynchronous Transfer Mode (ATM)	ATM, which refers to an automated teller machine. Character-at-a-time transmission.
Asynchronous transmission	Character-at-a-time transmission.
	An annual to the late of the second to the s
	An engagement in which an IS auditor is engaged to either examine management's assertion regarding a particular subject matter or the subject matter directly.  -/>strong>Scope Notes:
	regarding a particular subject matter or the subject matter directly. strong>Scope Notes: The IS auditor's report consists of an opinion on one of the following: The subject matter.
	regarding a particular subject matter or the subject matter directly. The IS auditor's report consists of an opinion on one of the following: The subject matter.  These reports relate directly to the subject matter itself rather than to an assertion. In certain
	regarding a particular subject matter or the subject matter directly. br/> strong>Scope Notes: The IS auditor's report consists of an opinion on one of the following: The subject matter. These reports relate directly to the subject matter itself rather than to an assertion. In certain situations management will not be able to make an assertion over the subject of the engagement. An
	regarding a particular subject matter or the subject matter directly. The IS auditor's report consists of an opinion on one of the following: The subject matter.  These reports relate directly to the subject matter itself rather than to an assertion. In certain
Attest reporting engagement	regarding a particular subject matter or the subject matter directly. /strong>The IS auditor's report consists of an opinion on one of the following: The subject matter. These reports relate directly to the subject matter itself rather than to an assertion. In certain situations management will not be able to make an assertion over the subject of the engagement. An example of this situation is when IT services are outsourced to third party. Management will not ordinarily be able to make an assertion over the controls that the third party is responsible for. Hence, an IS auditor would have to report directly on the subject matter rather than on an assertion.
Attest reporting engagement Attitude	regarding a particular subject matter or the subject matter directly. strong>The IS auditor's report consists of an opinion on one of the following: The subject matter. These reports relate directly to the subject matter itself rather than to an assertion. In certain situations management will not be able to make an assertion over the subject of the engagement. An example of this situation is when IT services are outsourced to third party. Management will not ordinarily be able to make an assertion over the controls that the third party is responsible for.

	Formal inspection and verification to check whether a standard or set of guidelines is being followed,
Audit	records are accurate, or efficiency and effectiveness targets are being met. br/> <strong>Scope Notes: </strong> May be carried out by internal or external groups.
Audit	Performance measurement of service delivery including cost, timeliness and quality against agreed
Audit accountability	service levels.
Audit authority	A statement of the position within the enterprise, including lines of reporting and the rights of access.
	A document approved by those charged with governance that defines the purpose, authority and
	responsibility of the internal audit activity. /strong>Scope Notes: The charter
	should: should: should: - Establish the internal audit funtion's position within the enterprise br/> - In the should should be
Audit charter	Authorise access to records, personnel and physical properties relevant to the performance of IS audit and assurance engagementsDefine the scope of audit function's activities
Audit evidence	The information used to support the audit opinion.
	Expert or decision support systems that can be used to assist IS auditors in the decision-making
	process by automating the knowledge of experts in the field. br/> strong>Scope Notes:
A college and a contract and a contr	This technique includes automated risk analysis, systems software and control objectives
Audit expert systems	software packages.  The specific goal(s) of an audit.  <strong>Scope Notes: </strong> These often center on
Audit objective	substantiating the existence of internal controls to minimize business risk.
•	A plan containing the nature, timing and extent of audit procedures to be performed by
	engagement team members in order to obtain sufficient appropriate audit evidence to form an
	opinion.   opinion.   <b< td=""></b<>
	planned, the high-level objectives and scope of the work, and topics such as budget, resource allocation, schedule dates, type of report and its intended audience and other general aspects of the
	work vork vork vorkv
Audit plan	time.
	A step-by-step set of audit procedures and instructions that should be performed to complete an
Audit program	audit.
Audit rasponsibility	The roles, scope and objectives documented in the service level agreement (SLA) between management and audit.
Audit responsibility	The risk of reaching an incorrect conclusion based upon audit findings. strong>Scope
	Notes: The three components of audit risk are: br />- Control risk >br />-
Audit risk	Detection risk - Inherent risk
	The application of audit procedures to less than 100 percent of the items within a population to
Audit sampling	obtain audit evidence about a particular characteristic of the population.
Audit trail	A visible trail of evidence enabling one to trace information contained in statements or reports back to the original input source
Audit trail	An inventory of audit areas that is compiled and maintained to identify areas for audit during the
	audit planning process.  strong>Scope Notes: Traditionally, the list includes all
	financial and key operational systems as well as other units that would be audited as part of the
	overall cycle of planned work. The audit universe serves as the source from which the annual audit
Audit universe	schedule is prepared. The universe will be periodically revised to reflect changes in the overall risk profile.
Auditability	The level to which transactions can be traced and audited through a system.
	Subjects, units or systems that are capable of being defined and evaluated   >cstrong>Scope
	Subjects, units or systems that are capable of being defined and evaluated. Str/> <strong>Scope Notes: </strong> Auditable units may include: <li>Policies, procedures and practices</li>
	Notes: Auditable units may include: <li>li&gt;Policies, procedures and practices</li> <li>centers, profit centers and investment centers</li> <li>li&gt;General ledger account</li> <li>balances</li> <li>li&gt;<li>li&gt;Information systems (manual and computerized)</li> <li>li&gt;<li>Major contracts and</li> </li></li>
	Notes: Auditable units may include: <li>Policies, procedures and practices</li> <li>centers, profit centers and investment centers</li> <li>li&gt;General ledger account balances</li> <li>li&gt;Is-li&gt;Information systems (manual and computerized)</li> <li>Major contracts and programs</li> <li>li&gt;Cip&gt;Cip&gt;Cip&gt;Cip&gt;Cip&gt;Cip&gt;Cip&gt;Cip&gt;Cip&gt;Ci</li>
	Notes: Auditable units may include: <li>li&gt;Policies, procedures and practices</li> <li>centers, profit centers and investment centers</li> <li>li&gt;General ledger account</li> <li>balances</li> <li>li&gt;Information systems (manual and computerized)</li> <li>li&gt;Ii&gt;Ii&gt;Major contracts and programs</li> <li>li&gt;Ii&gt;Organizational units, such as product or service lines</li> <li>li&gt;Ii&gt;Ii&gt;Information technology</li> <li>purchasing, marketing, production, finance, accounting and human</li>
	Notes: Auditable units may include: <li>li&gt;Folicies, procedures and practices</li> <li>centers, profit centers and investment centers</li> <li>li&gt;General ledger account balances</li> <li>li&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii&gt;Ii</li>
Auditable unit	Notes: Auditable units may include: <li>li&gt;Policies, procedures and practices</li> <li>centers, profit centers and investment centers</li> <li>li&gt;General ledger account</li> <li>balances</li> <li>li&gt;Information systems (manual and computerized)</li> <li>li&gt;Ii&gt;Ii&gt;Major contracts and programs</li> <li>li&gt;Ii&gt;Organizational units, such as product or service lines</li> <li>li&gt;Ii&gt;Ii&gt;Information technology</li> <li>purchasing, marketing, production, finance, accounting and human</li>
Auditable unit	Notes: Auditable units may include: <li>li&gt;Policies, procedures and practices</li> <li>centers, profit centers and investment centers</li> <li>li&gt; seneral ledger account balances</li> <li>li&gt; si&gt; si&gt; si&gt; si&gt; si&gt; si&gt; si&gt; si&gt; si&gt; s</li>
Auditable unit	Notes: Auditable units may include: <li>Notes: Auditable units may include:</li> <li>I&gt;Policies, procedures and practices</li> <li>I &gt;Cli&gt;Cleareral ledger account balances</li> <li>I &gt;I &gt;Information systems (manual and computerized)</li> <li>I &gt;I &gt;</li>
Auditable unit	Notes: Auditable units may include: <ii>Policies, procedures and practices</ii> centers, profit centers and investment centers li>cli>General ledger account balances balances comparis centers and investment centers li>cli>General ledger account balances li>cli>li>li>li>li>lorganizational units, such as product or service lines  li>Functions, such as information technology (IT), purchasing, marketing, production, finance, accounting and human resources (HR) li>Transaction systems for activities, such as sales, collection, purchasing, disbursement, inventory and cost accounting, production, treasury, payroll, and capital assets li>li>li>ininial statements li>li>laws and regulations li The act of verifying identity, i.e., user, system. li>clr cystrong li>cope Notes: li>clr act of verifying the
Auditable unit	Notes: Auditable units may include: <li>Notes: Auditable units may include:</li> <li>I&gt;Policies, procedures and practices</li> <li>I &gt;Cli&gt;Cleareral ledger account balances</li> <li>I &gt;I &gt;Information systems (manual and computerized)</li> <li>I &gt;I &gt;</li>
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	A group of stakeholders and expects who are accountable for guidance an enterprise architecture
	A group of stakeholders and experts who are accountable for guidance on enterprise-architecture- related matters and decisions, and for setting architectural policies and standards  >cstrong>Scope Notes: COBIT 5 perspective
Architecture board Advanced Encryption Standard (AES)	A public algorithm that supports keys from 128 bits to 256 bits in size
Advanced persistent threat (APT)	An adversary that possesses sophisticated levels of expertise and significant resources which allow it to create opportunities to achieve its objectives using multiple attack vectors (NIST SP800-61).cbr/>/strong>Scope Notes: The APT:cbr />cbr />1. pursues its objectives repeatedly over an extended period of time />cbr />2. Adapts to defenders' efforts to resist it />cbr />3. is determined to maintain the level of interaction needed to execute its objectives
Adversary	A threat agent
Assertion	Any formal declaration or set of declarations about the subject matter made by management. br/>>strong>Scope Notes: Assertions should usually be in writing and commonly contain a list of specific attributes about the subject matter or about a process involving the subject matter.
Assurance angagement	An objective examination of evidence for the purpose of providing an assessment on risk management, control or governance processes for the enterprise. /strong>Examples may include financial, performance, compliance and system security engagements
Assurance engagement Attack	An actual occurrence of an adverse event
Attack mechanism  Attack vector	A method used to deliver the exploit. Unless the attacker is personally performing the attack, an attack mechanism may involve a payload, or container, that delivers the exploit to the target.  A path or route used by the adversary to gain access to the target (asset)br/> <strong>Scope Notes: </strong> There are two types of attack vectors: ingress and egress (also known as data exfiltration)
Attenuation	Reduction of signal strength during transmission
	Risk relevant to the area under review: '> Rish relevant to the area under review: '> '> - Business risk (customer capability to pay, credit worthiness, market factors, etc.) - Country risk (political, environment, security, etc.) - Project risk (resources, skill set, methodology, product stability, etc.) - Technology risk (solution, architecture, hardware and software infrastructure network, delivery channels, etc.). - Strong>Scope
Audit subject matter risk	Notes: See inherent risk
Auditor's opinion Authenticity	A formal statement expressed by the IS audit or assurance professional that describes the scope of the audit, the procedures used to produce the report and whether or not the findings support that the audit criteria have been met.~str/> strong>Scope Notes: The types of opinions are: are: br/>-br/>- Unqualified opinion: Notes no exceptions or none of the exceptions noted aggregate to a significant deficiency significant deficiency but not a material weakness) br/>- Adverse opinion: Notes one or more significant deficiencies aggregating to a material weakness Undisputed authorship
Application containerization	A mechanism that is used to isolate applications from each other within the context of a running operating system instance. In much the same way that a logical partition (LPAR) provides segmentation of system resources in mainframes, a computing environment employing containers segments and isolates the underlying system services so that they are logically sequestered from each other.
Application containerization asymmetric cipher	Most implementations of asymmetric ciphers combine a widely distributed public key and a closely held, protected private key. A message that is encrypted by the public key can only be decrypted by the mathematically related, counterpart
	The main communication channel of a digital network. The part of a network that handles the major traffic  traffic   >br/> >ctrong>Scope Notes: Employs the highest-speed transmission paths in the network and may also run the longest distances. Smaller networks are attached to the backbone, and networks that connect directly to the end user or customer are called "access networks." A backbone can span a geographic area of any size from a single building to an office complex to an entire country. Or, it can be as small as a
Backbone	backplane in a single cabinet. Files, equipment, data and procedures available for use in the event of a failure or loss, if the originals
Backup	are destroyed or out of service.  An alternate facility to continue IT/IS operations when the primary data processing (DP) center is
Backup center	unavailable.
	A card or other device that is presented or displayed to obtain access to an otherwise restricted facility, as a symbol of authority (e.g., the police), or as a simple means of
Badge	identification. br/> <strong>Scope Notes: </strong> Also used in advertising and publicity. Developed by Robert S. Kaplan and David P. Norton as a coherent set of performance measures organized into four categories that includes traditional financial measures, but adds customer,
Balanced scorecard (BSC)	internal business process, and learning and growth perspectives.  The range between the highest and lowest transmittable frequencies. It equates to the transmission capacity of an electronic line and in expressed in but
Bandwidth	capacity of an electronic line and is expressed in bytes per second or Hertz (cycles per second).
Bar code	A printed machine-readable code that consists of parallel bars of varied width and spacing.  A standardized body of data created for testing purposes. Scope Notes:  Users normally establish the data. Base cases validate production application systems and
Base case	test the ongoing accurate operation of the system.

Baseband	A form of modulation in which data signals are pulsed directly on the transmission medium without frequency division and usually utilize a transceiver. -strong>Scope Notes: The entire bandwidth of the transmission medium (e.g., coaxial cable) is utilized for a single channel.
document of the second of the	entire bandinari of the datishission median (e.g.) countries to a single ordinari
	Correctness checks built into data processing systems and applied to batches of input data,
	particularly in the data preparation stage. strong>Scope Notes: There are two
	main forms of batch controls: sequence control, which involves numbering the records in a batch
No.	consecutively so that the presence of each record can be confirmed; and control total, which is a to
Batch control	of the values in selected fields within the transactions.
Batch processing	The processing of a group of transactions at the same time. <strong>Scope Notes: </strong> Transactions are collected and processed against the master files at a specified time.
Baud rate	The rate of transmission for telecommunications data, expressed in bits per second (bps).  A test that has been designed to evaluate the performance of a system.sbr/>sbr/>sstrong>Scope
	Notes: in a benchmark test, a system is subjected to a known workload and the
	performance of the system against this workload is measured. Typically, the purpose is to compare
	the measured performance with that of other systems that have been subject to the same
Benchmark	benchmark test.
	A systematic approach to comparing enterprise performance against peers and competitors in an
	effort to learn the best ways of conducting business.  <strong>Scope Notes:</strong>
enchmarking	Examples include benchmarking of quality, logistic efficiency and various other metrics.
	In business, an outcome whose nature and value (expressed in various ways) are considered
enefit	advantageous by an enterprise.
est practice	A proven activity or process that has been successfully used by multiple enterprises.
linary code	A code whose representation is limited to 0 and 1.
Constitution to also	Door and entry locks that are activated by such biometric features as voice, eye retina, fingerprint of
iometric locks	signature.  A security technique that verifies an individual's identity by analyzing a unique physical attribute,
iometrics	such as a handprint.
	Bit-stream backups, also referred to as mirror image backups, involve the backup of all areas of a
	computer hard disk drive or other type of storage media.  <strong>Scope Notes:</strong>
	Such backups exactly replicate all sectors on a given storage device including all files and
Bit-stream image	ambient data storage areas.
Black box testing	A testing approach that focuses on the functionality of the application or product and does not require knowledge of the code intervals.
	Multiple channels are formed by dividing the transmission medium into discrete frequency segment
Broadband	<pre> <strong>Scope Notes:</strong> Broadband generally requires the use of a modem.</pre>
	Daying that performs the functions of both a bridge and a router shr/sshr/sstrongs Scope Notes:
	Device that performs the functions of both a bridge and a router. <pre>c/strong&gt;A brouter operates at both the data link and the network layers. It connects same data link</pre>
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Brute force Brute force attack	A brouter operates at both the data link and the network layers. It connects same data lir type LAN segments as well as different data link ones, which is a significant advantage. Like a bridge it forwards packets based on the data link layer address to a different network of the same type. All whenever required, it processes and forwards messages to a different data link type network based on the network protocol address. When connecting same data link type networks, it is as fast as a bridge and is able to connect different data link type networks. A computer program that enables the user to retrieve information that has been made publicly available on the Internet; also, that permits multimedia (graphics) applications on the World Wide Web. A class of algorithms that repeatedly try all possible combinations until a solution is found. Repeatedly trying all possible combinations of passwords or encryption keys until the correct one is found. Estimated cost and revenue amounts for a given range of periods and set of books. books. A mathematical expression used to calculate budget amounts based on actual results, other budget
Browser Brute force Brute force attack Budget	A brouter operates at both the data link and the network layers. It connects same data link type LAN segments as well as different data link ones, which is a significant advantage. Like a bridge it forwards packets based on the data link layer address to a different network of the same type. All whenever required, it processes and forwards messages to a different data link type network based on the network protocol address. When connecting same data link type networks, it is as fast as a bridge and is able to connect different data link type networks. A computer program that enables the user to retrieve information that has been made publicly available on the Internet; also, that permits multimedia (graphics) applications on the World Wide Web. A class of algorithms that repeatedly try all possible combinations until a solution is found. Repeatedly trying all possible combinations of passwords or encryption keys until the correct one is found. Estimated cost and revenue amounts for a given range of periods and set of books. books. A mathematical expression used to calculate budget amounts based on actual results, other budget amounts and statistics. br/> <strong>Scope Notes:  /strong&gt;Scope Notes:  /strong&gt;With budget formulas, budgets</strong>
Browser Brute force Brute force attack Budget	A brouter operates at both the data link and the network layers. It connects same data lir type LAN segments as well as different data link ones, which is a significant advantage. Like a bridge it forwards packets based on the data link layer address to a different network of the same type. All whenever required, it processes and forwards messages to a different data link type network based on the network protocol address. When connecting same data link type networks, it is as fast as a bridge and is able to connect different data link type networks. A computer program that enables the user to retrieve information that has been made publicly available on the Internet; also, that permits multimedia (graphics) applications on the World Wide Web. A class of algorithms that repeatedly try all possible combinations until a solution is found. Repeatedly trying all possible combinations of passwords or encryption keys until the correct one is found. Estimated cost and revenue amounts for a given range of periods and set of books. books. Scope Notes:  Strong>There can be multiple budget versions for the sar set of books. A mathematical expression used to calculate budget amounts based on actual results, other budget amounts and statistics. Strong>Scope Notes:  Strong>With budget formulas, budgets using complex equations, calculations and allocations can be automatically created.
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	Occurs when a program or process tries to store more data in a buffer (temporary data storage area)
	than it was intended to hold.  <
	contain a finite amount of data, the extra information—which has to go somewhere—can overflow
	into adjacent buffers, corrupting or overwriting the valid data held in them. Although it may occur accidentally through programming error, buffer overflow is an increasingly common type of security
	attack on data integrity. In buffer overflow attacks, the extra data may contain codes designed to
	trigger specific actions, in effect sending new instructions to the attacked computer that could, for
	example, damage the user's files, change data, or disclose confidential information. Buffer overflow
2.11	attacks are said to have arisen because the C programming language supplied the framework, and
Buffer overflow	poor programming practices supplied the vulnerability.  A data recovery strategy that includes a recovery from complete backups that are physically shipped
	offsite once a week. 
	electronically several times daily, and then loaded into a tape library located at the same facility as
Bulk data transfer	the planned recovery.
	Common path or channel between hardware devices. common path or channel between hardware devices.
Bus	be located between components internal to a computer or between external computers in a communication network.
	All devices (nodes) are linked along one communication line where transmissions are received by all attached nodes. <pre>cystrong</pre> <pre>Scope Notes:</pre> <pre>cystrong</pre> <pre>This architecture is reliable in very small</pre>
	networks, as well as easy to use and understand. This configuration requires the least amount of
	cable to connect the computers together and, therefore, is less expensive than other cabling
	arrangements. It is also easy to extend, and two cables can be easily joined with a connector to make
	a longer cable for more computers to join the network. A repeater can also be used to extend a bus
Bus configuration	configuration.
	A tool for managing organizational strategy that uses weighted measures for the areas of financial
	performance (lag) indicators, internal operations, customer measurements, learning and growth
usiness balanced scorecard	(lead) indicators, combined to rate the enterprise.  Documentation of the rationale for making a business investment, used both to support a business
	decision on whether to proceed with the investment and as an operational tool to support
usiness case	management of the investment through its full economic life cycle
	A plan used by an enterprise to respond to disruption of critical business processes. Depends on the
usiness continuity plan (BCP)	contingency plan for restoration of critical systems.
	The policies, procedures, practices and organizational structures designed to provide reasonable
	assurance that the business objectives will be achieved and undesired events will be prevented or
Business control	detected.
Business dependency assessment Business function	A process of identifying resources critical to the operation of a business process.  An activity that an enterprise does, or needs to do, to achieve its objectives.
Sauth Control of the	The translation of the enterprise's mission from a statement of intention into performance targets
Business goal	and results.
Business impact	The net effect, positive or negative, on the achievement of business objectives.
	A process to determine the impact of losing the support of any resource.  strong>Scope
	Notes: The BIA assessment study will establish the escalation of that loss over time. It is
	predicated on the fact that senior management, when provided reliable data to document the
Business impact analysis (BIA)	potential impact of a lost resource, can make the appropriate decision.
	Evaluating the criticality and sensitivity of information assets. An exercise that determines the impact of losing the support of any resource to an enterprise, establishes the escalation of that loss over
	time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes
	time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system. - <b< td=""></b<>
susiness impact analysis/assessment (BIA)	time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system. br/> <strong>Scope Notes: </strong> This process also includes addressing: di>Income lossIncome loss
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	time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system. <a href="https://sctrong&gt;Scope">broses: </a> <a href="https://sctrong&gt;This process also includes addressing:&lt;a href=" https:="" sctrong="">Scope"&gt;https://sctrong&gt;This process also includes addressing:<a href="https://sctrong&gt;Scope">https://sctrong&gt;This process also includes addressing:<a href="https://sctrong&gt;Stope.cope.cope.cope.cope.cope.cope.cope.c&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system.&lt;a href=" https:="" www.cstrong="">Scope"&gt;broses:</a> <a href="https://www.cstrong&gt;Scope">stoses:</a> <a href="https://www.cstrong&gt;Scope">stoses:</a> <a href="https://www.cstrong&gt;Scope">stoses:</a> <a href="https://www.cstrong&gt;Scope">https://www.cstrong&gt;Stoses</a> <a href="https://www.cstrongo.com/sinsussussussussussussussussussussussussus&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Business interruption&lt;/td&gt;&lt;td&gt;time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system.&lt;a href=" https:="" sctrong="">Scope"&gt;broses:</a> <a href="https://sctrong&gt;This process also includes addressing:&lt;a href=" https:="" sctrong="">Scope"&gt;https://sctrong&gt;This process also includes addressing:<a href="https://sctrong&gt;Scope">https://sctrong&gt;This process also includes addressing:<a href="https://sctrong&gt;Stose=Chis-Legal issues">https://sctrong&gt;Stose=Chis-Legal issues</a> (regulatory compliance or contractual)<a href="https://sctrong-stose=Chis-Legal issues">https://sctrong&gt;Legal issues</a> (regulatory compliance or contractual)<a href="https://sctrong-stose=Chis-Legal issues">https://sctrong&gt;Stose=Chis-Legal issues</a> (regulatory compliance or contractual)<a href="https://sctrong-stose=Chis-Legal issues&lt;/a&gt; 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The individual responsible for identifying process requirements, approving process design and managing process performance.&lt;a href=" https:="" sctrong="">Scope"&gt;https://sctrong&gt;Must be at an appropriately high level in the enterprise and have authority to commit resources to process-specific risk management activities  The thorough analysis and significant redesign of business processes and management systems to establish a better performing structure, more responsive to the customer base and market</a></a></a></a></a></a></a></a>
Business impact analysis/assessment (BIA) Business interruption Business Model for Information Security (BMIS) Business objective Business process Business process integrity Business process owner Business process reengineering (BPR) Business process reengineering (BPR)	time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system. br/> <strong>Scope Notes: </strong> This process also includes addressing: corporting system. br/> <il> corporting system.  corporting system.  corporting system.  corporting system.  corporting system.  confidences/li&gt; Any event, whether anticipated (i.e., public service strike) or unanticipated (i.e., blackout) that disrupts the normal course of business operations at an enterprise.  A holistic and business-oriented model that supports enterprise governance and management information security, and provides a common language for information security professionals and business management.  A further development of the business goals into tactical targets and desired results and outcomes.  An inter-related set of cross-functional activities or events that result in the delivery of a specific product or service to a customer.  Controls over the business processes that are supported by the enterprise resource planning system (ERP).  The individual responsible for identifying process requirements, approving process design and managing process performance.  br/&gt; corporately high level in the enterprise and have authority to commit resources to process-specific risk management activities  The thorough analysis and significant redesign of business processes and management systems to</il>
Business interruption Business Model for Information Security (BMIS) Business objective Business process Business process integrity Business process owner Business process reengineering (BPR)	time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system. <a href="https://strong&gt;Scope">broses: </a> systems. <a href="https://strong&gt;This process also includes">brocess also includes addressing:<a href="https://strong&gt;Itislander.org/lisalder.org/li&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Business Model for Information Security (BMIS) Business Model for Information Security (BMIS) Business objective Business process Business process integrity Business process owner Business process reengineering (BPR)&lt;/td&gt;&lt;td&gt;time, identifies the minimum resources needed to recover, and prioritizes the recovery of processes and the supporting system.&lt;a href=" https:="" sctrong="">Scope"&gt;brocesses/sips://sctps://sctrong&gt;This process also includes addressing:</a></a>

	Transactions in which the acquirer is an enterprise or an individual operating in the ambits of his/her professional activity. In this case, laws and regulations related to consumer protection are not applicable. -br/> -strong>Scope Notes: The contract's general terms should be communicated to the other party and specifically approved. Some companies require the other party
Business-to-business	to fill out check-boxes where there is a description such as "I specifically approve the clauses" This is not convincing; the best solution is the adoption of a digital signature scheme, which allows the approval of clauses and terms with the non-repudiation condition.
	Selling processes in which the involved parties are the enterprise, which offers goods or services, and a consumer. In this case there is comprehensive legislation that protects the consumer. <pre>consumer. &lt;&gt;tr/&gt;<strong>Scope Notes: </strong></pre>
	includes: <li>Regarding contracts established outside the merchant's property (such as the right to</li>
	end the contract with full refund or the return policy for goods) <li>Regarding distance contracts (such as rules that establish how a contract should be written, specific clauses and the need to</li>
Business-to-consumer	transmit to the consumer and approve it) <li>Regarding electronic form of the contract (such as on the Internet, the possibility for the consumer to exit from the procedure without having his/her data recorded)</li>
Business-to-consumer e-commerce (B2C)	Refers to the processes by which enterprises conduct business electronically with their customers and/or public at large using the Internet as the enabling technology.
Bypass label processing (BLP)	A technique of reading a computer file while bypassing the internal file/data set label. This process could result in bypassing of the security access control system.
, ,	The existing description of the fundamental underlying design of the components of the business
	system before entering a cycle of architecture review and redesign  syr/> <strong>CoBIT 5 perspective</strong>
Baseline architecture	One of the chiestives of governance. The beinging about of a continue of the continue of
	One of the objectives of governance. The bringing about of new benefits for the enterprise, the maintenance and extension of existing forms of benefits, and the elimination of those initiatives and assets that are not creating sufficient value 
Benefits realization	perspective
	Preventing, mitigating and recovering from disruption  <strong>Scope Notes: </strong>
Business continuity	The terms 'business resumption planning', 'disaster recovery planning' and 'contingency planning' also may be used in this context; they focus on recovery aspects of continuity, and for that reason the 'resilience' aspect should also be taken into account. 
	The policies, procedures, practices and organizational structures designed to provide reasonable assurance that a business process will achieve its objectives. <pre>control</pre>
Business process control	COBIT 5 perspective
	A means of regaining access to a compromised system by installing software or configuring existing
Back door	software to enable remote access under attacker-defined conditions
Bastion	System heavily fortified against attacks
Block cipher	A public algorithm that operates on plaintext in blocks (strings or groups) of bits  A term derived from "robot network," is a large automated and distributed network of previously
Botnet	compromised computers that can be simultaneously controlled to launch large-scale attacks such as a denial-of-service attack on selected victims
Boundary	Logical and physical controls to define a perimeter between the organization and the outside world
·	Data link layer device developed in the early 1980s to connect local area networks (LANs) or create
	two separate LAN or wide area network (WAN) network segments from a single segment to reduce
	collision domains. Scope Notes: A bridge acts as a store-and-forward
Bridge	device in moving frames toward their destination. This is achieved by analyzing the MAC header of a data packet, which represents the hardware address of an NIC.
Bridge	An enterprise policy used to permit partial or full integration of user-owned mobile devices for
Bring your own device (BYOD) Broadcast	business purposes  A method to distribute information to multiple recipients simultaneously
DIOducast	A method to distribute information to multiple recipients simultaneously
Blockchain	A distributed, protected journaling and ledger system. Use of blockchain technologies can enable anything from digital currency (e.g. Bitcoin) to any other value-bearning transaction.
DIOCKCHAIH	Base58 Encoding is a binary-to-text encoding process that converts long bit sequences into
Base58 Encoding	alphanumeric text, which is easier for users Base64 Encoding is a binary-to-text encoding process that converts long bit sequences into
Base64 Encoding	alphanumeric text.
Cadhury	The Committee on the Financial Aspects of Corporate Governance, set up in May 1991 by the UK Financial Reporting Council, the London Stock Exchange and the UK accountancy profession, was chaired by Sir Adrian Cadbury and produced a report on the subject commonly known in the UK as the Cadbury Report.
Cadbury	the Cadbury Report.  An aptitude, competency or resource that an enterprise may possess or require at an enterprise,
Capability	business function or individual level that has the potential, or is required, to contribute to a business outcome and to create value.

	1. Contains the essential elements of effective processes for one or more disciplines. It also describes an evolutionary improvement path from ad hoc, immature processes to disciplined, mature processes with improved quality and effectiveness. <a href="https://chr/&gt;2">chr/&gt;2"&gt;chr/&gt;2"&gt;chr/&gt;2"&gt;chr/&gt;2"&gt;chr/&gt;2"&gt;chr/&gt;2"&gt;chr/&gt;chr/&gt;"&gt;ch</a>
	according to a hierarchy of five process maturity levels. Each level ranks the development environment according to its capability of producing quality software. A set of standards is associated with each of the five levels. The standards for level one describe the most immature or chaotic processes and the standards for level five describe the most mature or quality processes. A maturity model that indicates the degree of reliability or dependency the business can place on a process achieving the desired goals or objectives. A collection of instructions that an enterprise can follow to
Capability Maturity Model (CMM)  Capacity stress testing	gain better control over its software development process.  Testing an application with large quantities of data to evaluate its performance during peak periods.  Also called volume testing.
Capacity stress testing	Also called volume testing.
Capital expenditure/expense (CAPEX)	An expenditure that is recorded as an asset because it is expected to benefit more than the current period. The asset is then depreciated or amortized over the expected useful life of the asset.  A physical control technique that uses a secured card or ID to gain access to a highly sensitive location.   location.   strong   scrong   foult correctly, card swipes act as a preventive control over physical access to those sensitive locations. After a card has been swiped, the application
Card swipe	attached to the physical card swipe device logs all card users who try to access the secured location.  The card swipe device prevents unauthorized access and logs all attempts to enter the secured location.
Cathode ray tube (CRT)	A vacuum tube that displays data by means of an electron beam striking the screen, which is coated with suitable phosphor material or a device similar to a television screen on which data can be displayed.
Central processing unit (CPU)	Computer hardware that houses the electronic circuits that control/direct all operations of the computer system.
Centralized data processing	Identified by one central processor and databases that form a distributed processing configuration.  A trusted third party that serves authentication infrastructures or enterprises and registers entities
Certificate (Certification) authority (CA)	and issues them certificates.  An instrument for checking the continued validity of the certificates for which the certification authority (CA) has responsibility.        
Certificate revocation list (CRL)	certificates that are no longer valid. The time gap between two updates is very critical and is also a risk in digital certificates verification.  A detailed set of rules governing the certificate authority's operations. It provides an understanding of the value and trustworthiness of certificates issued by a given certificate authority  (CA)\textsty-\textsty
Certification practice statement (CPS)	the method it uses to validate the authenticity of certificate applicants and the CA's expectations of how its certificates may be used.
Chain of custody	A legal principle regarding the validity and integrity of evidence. It requires accountability for anything that will be used as evidence in a legal proceeding to ensure that it can be accounted for from the time it was collected until the time it is presented in a court of law. strong>Scope Notes: Includes documentation as to who had access to the evidence and when, as well as the ability to identify evidence as being the exact item that was recovered or tested. Lack of control over evidence can lead to it being discredited. Chain of custody depends on the ability to verify that evidence could not have been tampered with. This is accomplished by sealing off the evidence, so it cannot be changed, and providing a documentary record of custody to prove that the evidence was at all times under strict control and not subject to tampering.
Challenge/response token	A method of user authentication that is carried out through use of the Challenge Handshake Authentication Protocol (CHAP).   >chr/> <strong>Scope Notes: </strong> When a user tries to log into the server using CHAP, the server sends the user a "challenge," which is a random value. The user enters a password, which is used as an encryption key to encrypt the "challenge" and return it to the server. The server is aware of the password. It, therefore, encrypts the "challenge" value and compares it with the value received from the user. If the values match, the user is authenticated. The challenge/response activity continues throughout the session and this protects the session from password sniffing attacks. In addition, CHAP is not vulnerable to "man-in-the-middle" attacks because the challenge value is a random value that changes on each access attempt.
Change management	A holistic and proactive approach to managing the transition from a current to a desired organizational state, focusing specifically on the critical human or "soft" elements of change. change. chr/> <strong>Scope Notes: </strong> Includes activities such as culture change (values, beliefs and attitudes), development of reward systems (measures and appropriate incentives), organizational design, stakeholder management, human resources (HR) policies and procedures, executive coaching, change leadership training, team building and communication planning and execution.
Channel service unit/dgital service unit (CSU/DSU)	Interfaces at the physical layer of the open systems interconnection (OSI) reference model, data terminal equipment (DTE) to data circuit terminating equipment (DCE), for switched carrier networks.

СоСо	Criteria of Control, published by the Canadian Institute of Chartered Accountants in 1995.
СОВІТ	executives and management in their definition and achievement of business goals and related IT goals. COBIT describes five principles and seven enablers that support enterprises in the development, implementation, and continuous improvement and monitoring of good IT-related governance and management practices Solation of the COBIT focused on control objectives related to IT processes, management and control of IT processes and IT governance aspects. Adoption and use of the COBIT framework are supported by guidance from a growing family of supporting products. (See www.isaca.org/cobit for more information.) Solation of the COBIT framework are supported by guidance from a growing family of supporting products. (See www.isaca.org/cobit for more information.) Solation of the complete, internationally accepted process framework for IT that supports business and IT executives and management in their definition and achievement of business goals and related IT goals by providing a comprehensive IT governance, management, control and assurance model. COBIT describes IT processes and associated control objectives, management guidelines (activities, accountabilities, responsibilities and performance metrics) and maturity models. COBIT supports enterprise management in the development, implementation, continuous improvement and monitoring of good IT-related practices. Solation of the COBIT framework are supported by guidance for executives and management (Board Briefing on IT Governance, 2nd Edition), IT governance implementers (COBIT Quickstart, 2nd Edition; IT Governance Implementation Guide: Using COBIT and Val IT, 2nd Edition; and COBIT Control Practices: Guidance to Achieve Control Objectives for Successful IT Governance), and IT assurance and audit professionals (IT Assurance Guide Using COBIT). Guidance also exists to support its applicability for certain legislative and regulatory requirements (e.g., IT Control Objectives for Sarbanes-Oxley, IT Control Objectives for Basel II) and its relevanc
Coaxial cable	surrounds the insulation of the inner wire like a sheath, and the outer insulation which wraps the second wire.str/>cbr/>cstrong>Scope Notes: Has a greater transmission capacity than standard twisted-pair cables, but has a limited range of effective distance now used only as the acronym in its fifth iteration. A complete, internationally accepted framework for governing and managing enterprise information and technology (IT) that supports enterprise
Cluster controller	terminals. scr/> <strong>Scope Notes: </strong> All messages are buffered by the controller and then transmitted to the receiver.  Composed of an insulated wire that runs through the middle of each cable, a second wire that
Client-server	A group of computers connected by a communication network, in which the client is the requesting machine and the server is the supplying machine. specialized at both ends. Processing may take place on either the client or the server, but it is transparent to the user.  A communication terminal control hardware unit that controls a number of computer
Circular routing Cleartext	network based on a series of gates at the physical network layer in the open systems interconnection (OSI) model.  Data that is not encrypted. Also known as plaintext.
Circuit-switched network	A data transmission service requiring the establishment of a circuit-switched connection before data can be transferred from source data terminal equipment (DTE) to a sink DTE. br/>strong>Scope Notes: A circuit-switched data transmission service uses a connection network.  In open systems architecture, circular routing is the logical path of a message in a communication
Ciphertext	Information generated by an encryption algorithm to protect the plaintext and that is unintelligible to the unauthorized reader.
Chief information officer (CIO)  Chief technology officer (CTO)	knowledge, not just information. Also see chief technology officer (CTO).  The individual who focuses on technical issues in an enterprise. Often viewed as synonymous with chief information officer (CIO)
	The most senior official of the enterprise who is accountable for IT advocacy, aligning IT and business strategies, and planning, resourcing and managing the delivery of IT services, information and the deployment of associated human resources.  cstrong>Scope Notes: In some cases, the CIO role has been expanded to become the chief knowledge officer (CKO) who deals in
Chief executive officer (CEO) Chief financial officer (CFO)	The highest ranking individual in an enterprise.  The individual primarily responsible for managing the financial risk of an enterprise.
Checklist Checkpoint restart procedures	process compliance, code standardization and error prevention, and other items for which consistency processes or standards have been defined  A point in a routine at which sufficient information can be stored to permit restarting the computation from that point.
<u> </u>	A list of items that is used to verify the completeness of a task or goal. strong>Scope Notes: Used in quality assurance (and in general, in information systems audit), to check
Check digit  Check digit verification (self-checking digit)	transposition and transcription errors.  A programmed edit or routine that detects transposition and transcription errors by calculating and checking the check digit.
	A numeric value, which has been calculated mathematically, is added to data to ensure that original data have not been altered or that an incorrect, but valid match has occurred. occurred. <hr/> crue fective in detecting

	Originated as a biological term, refers to the way two or more ecologically interdependent species
	become intertwined over time.  strong>Scope Notes: As these species adapt to their environment they also adapt to one another. Today's multi-business companies need to take
	their cue from biology to survive. They should assume that links among businesses are temporary and
	that the number of connections-not just their content-matters. Rather than plan collaborative
	strategy from the top, as traditional companies do, corporate executives in coevolving companies
Coevolving	should simply set the context and let collaboration (and competition) emerge from business units.
	Establishing a potent binding force and sense of direction and purpose for the enterprise, relating
Coherence	different parts of the enterprise to each other and to the whole to act as a seemingly unique entity.
	The extent to which a system unitsubroutine, program, module, component, subsystemperforms a single dedicated function. strong>Scope Notes: Generally, the more cohesive
	the unit, the easier it is to maintain and enhance a system because it is easier to determine where
Cohesion	and how to apply a change.
	An IS backup facility that has the necessary electrical and physical components of a computer facility,
	but does not have the computer equipment in place. yelectrical and physical components of a computer racinty, but does not have the computer equipment in place. yelectrical and physical components of a computer racinty, but does not have the computer equipment in place. yelectrical and physical components of a computer racinty, but does not have the computer equipment in place. yelectrical and physical components of a computer racinty, yelectrical and physical compo
	site is ready to receive the necessary replacement computer equipment in the event that the users
Cold site	have to move from their main computing location to the alternative computer facility.
	The consolidation in 1998 of the "Cadbury," "Greenbury" and "Hampel"
	Reports. Strong>Scope Notes: Named after the Committee Chairs, these reports
	were sponsored by the UK Financial Reporting Council, the London Stock Exchange, the
	Confederation of British Industry, the Institute of Directors, the Consultative Committee of
	Accountancy Bodies, the National Association of Pension Funds and the Association of British Insurers
Combined Code on Corporate Governance	to address the financial aspects of corporate governance, directors' remuneration and the implementation of the Cadbury and Greenbury recommendations.
combined code on corporate dovernance	implementation of the Caubury and Greenbury recommendations.
	A computer embedded in a communications system that generally performs the basic tasks of
	classifying network traffic and enforcing network policy functions.  
	An example is the message data processor of a defense digital network (DDN) switching
Communication processor	center. More advanced communication processors may perform additional functions.
	Small computers used to connect and coordinate communication links between distributed or remote
Communications controller	devices and the main computer, thus freeing the main computer from this overhead function.
	Authenticate access to management information base (MIB) objects and function as embedded
	passwords. strong>Scope Notes: Examples are: li>Read-only (RO)-Gives read
	access to all objects in the MIB except the community strings, but does not allow write
	access <li>Read-write (RW)-Gives read and write access to all objects in the MIB, but does not</li>
	allow access to the community strings <li>Read-write-all-Gives read and write access to all</li>
	objects in the MIB, including the community strings (only valid for Catalyst 4000, 5000 and 6000
	series switches) <li>Simple Network Management Protocol (SNMP) community strings are sent across the network in cleartext. The best way to protect an operating system (OS) software-based</li>
	device from unauthorized SNMP management is to build a standard IP access list that includes the
	source address of the management station(s). Multiple access lists can be defined and tied to
	different community strings. If logging is enabled on the access list, then log messages are generated
	every time that the device is accessed from the management station. The log message records the
Community strings	source IP address of the packet.  A program for the examination of data, using logical or conditional tests to determine or to identify
Comparison program	similarities or differences.
Compensating control	An internal control that reduces the risk of an existing or potential control weakness resulting in errors and omissions.
compensating control	errors and omissions.
	The strengths of an enterprise or what it does well.   strong>Scope Notes: Can
Competencies	refer to the knowledge, skills and abilities of the assurance team or individuals conducting the work.
Compiler	A program that translates programming language (source code) into machine executable instructions (object code).
Compiler	
compiler	A type of challenge-response test used in computing to ensure that the response is not generated by
	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted
	A type of challenge-response test used in computing to ensure that the response is not generated by
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).  A procedure designed to ensure that no fields are missing from a record.
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration  Completeness check	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).
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Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration  Completeness check	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).  A procedure designed to ensure that no fields are missing from a record.  Tests of control designed to obtain audit evidence on both the effectiveness of the controls and their operation during the audit period.  A general term that is used to mean one part of something more complex. Strong>For example, a computer system may be a component of an IT service, or an
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Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration  Completeness check	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).  A procedure designed to ensure that no fields are missing from a record.  Tests of control designed to obtain audit evidence on both the effectiveness of the controls and their operation during the audit period.  A general term that is used to mean one part of something more complex. br/>  >strong>For example, a computer system may be a component of an IT service, or an application may be a component of a release unit. Components are co-operating packages of executable software that make their services available through defined interfaces. Components used
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration  Completeness check	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).  A procedure designed to ensure that no fields are missing from a record.  Tests of control designed to obtain audit evidence on both the effectiveness of the controls and their operation during the audit period.  A general term that is used to mean one part of something more complex. Strong>For example, a computer system may be a component of an IT service, or an application may be a component of a release unit. Components are co-operating packages of
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration  Completeness check  Compliance testing	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).  A procedure designed to ensure that no fields are missing from a record.  Tests of control designed to obtain audit evidence on both the effectiveness of the controls and their operation during the audit period.  A general term that is used to mean one part of something more complex. strong>For example, a computer system may be a component of an IT service, or an application may be a component of a release unit. Components are co-operating packages of executable software that make their services available through defined interfaces. Components used in developing systems may be commercial off-the-shelf software (COTS) or may be purposely built. However, the goal of component-based development is to ultimately use as many pre-developed, pretested components as possible.
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA)  Completely connected (mesh) configuration  Completeness check  Compliance testing  Component  Comprehensive audit	A type of challenge-response test used in computing to ensure that the response is not generated by a computer. An example is the site request for web site users to recognize and type a phrase posted using various challenging-to-read fonts.  A network topology in which devices are connected with many redundant interconnections between network nodes (primarily used for backbone networks).  A procedure designed to ensure that no fields are missing from a record.  Tests of control designed to obtain audit evidence on both the effectiveness of the controls and their operation during the audit period.  A general term that is used to mean one part of something more complex. hy> strong>For example, a computer system may be a component of an IT service, or an application may be a component of a release unit. Components are co-operating packages of executable software that make their services available through defined interfaces. Components used in developing systems may be commercial off-the-shelf software (COTS) or may be purposely built. However, the goal of component-based development is to ultimately use as many pre-developed,

(2527)	A group of people integrated at the enterprise with clear lines of reporting and responsibilities for standby support in case of an information systems emergency. This group will act as an efficient corrective control, and should also act as a single point of contact for all incidents and issues related
Computer emergency response team (CERT)	to information systems.
	The application of the scientific method to digital media to establish factual information for judicial
	review. review.  review.  review.  review. review. review. review. review. review. review. review. review. review. review. review. review. review.
	systems to determine whether they are or have been used for illegal or unauthorized activities. As a
	discipline, it combines elements of law and computer science to collect and analyze data from
	information systems (e.g., personal computers, networks, wireless communication and digital storage
Computer forensics	devices) in a way that is admissible as evidence in a court of law.
	Verifies that the control number follows sequentially and that any control numbers out of sequence
Computer sequence checking	are rejected or noted on an exception report for further research.
	1. A computer dedicated to servicing requests for resources from other computers on a network.
	Servers typically run network operating systems. systems. ->2. A computer that provides services to
Computer server	another computer (the client).
	The use of software packages that aid in the development of all phases of an information
	system. system. system. system. system. system. system. system. system. system. system.
	documentation are provided. Changes introduced in one CASE chart will update all other related
Computer-aided software engineering (CASE)	charts automatically. CASE can be installed on a microcomputer for easy access.
	Any automated audit technique, such as generalized audit software (GAS), test data generators,
Computer-assisted audit technique (CAAT)	computerized audit programs and specialized audit utilities.
	Refers to a class of controls used in a database management system (DBMS) to ensure that
	transactions are processed in an atomic, consistent, isolated and durable manner (ACID). This implies
	that only serial and recoverable schedules are permitted, and that committed transactions are not
Concurrency control	discarded when undoing aborted transactions.
	A fail-over process, in which all nodes run the same resource group (there can be no [Internet
	Protocol] IP or [mandatory access control] MAC address in a concurrent resource group) and access
Concurrent access	the external storage concurrently.
	Preserving authorized restrictions on access and disclosure, including means for protecting privacy
Confidentiality	and proprietary information.
Configurable control	Typically, an automated control that is based on, and therefore dependent on, the configuration of
Configurable control	parameters within the application system.  Component of an infrastructure-or an item, such as a request for change, associated with an
	infrastructure-which is (or is to be) under the control of configuration
	management. strong>Scope Notes: May vary widely in complexity, size and
	type, from an entire system (including all hardware, software and documentation) to a single module
Configuration item (CI)	or a minor hardware component
Configuration management	The control of changes to a set of configuration items over a system life cycle.
Console log	An automated detail report of computer system activity.
	In a RACI (responsible, accountable, consulted, informed) chart, refers to those people whose
Consulted	opinions are sought on an activity (two-way communication).
	Controlling access to a network by analyzing the contents of the incoming and outgoing packets and
	either letting them pass or denying them based on a list of rules. *clrtages Differs from pasket filtering in that it is the data in the pasket that are applyed instead of
	Differs from packet filtering in that it is the data in the packet that are analyzed instead of the attributes of the packet itself (e.g., source/target IP address, transmission control protocol [TCP]
Content filtering	flags)
Content intering	110837
	The overall set of internal and external factors that might influence or determine how an enterprise,
	entity, process or individual acts  <strong>Scope Notes: </strong> Context includes: 
	- technology context (technological factors that affect an enterprise's ability to extract value from
	data) br/>
	- data context (data accuracy, availability, currency and quality) skills and knowledge (general
	experience and analytical, technical and business skills), 
	- organizational and cultural context (political factors and whether the enterprise prefers data to
	intuition) br/>
	- strategic context (strategic objectives of the enterprise)
Context	  COBIT 5 perspective
Context	Cobit 3 perspective
Contingency plan	A plan used by an enterprise or business unit to respond to a specific systems failure or disruption.
	Process of developing advance arrangements and procedures that enable an enterprise to respond to
Contingency planning	an event that could occur by chance or unforeseen circumstances.
	Preventing, mitigating and recovering from disruption.  strong>Scope Notes: The
	terms "business resumption planning," "disaster recovery planning" and "contingency planning" also
Continuity	may be used in this context; they all concentrate on the recovery aspects of continuity.
Canting	This approach allows IS auditors to monitor system reliability on a continuous basis and to gather
Continuous auditing approach	selective audit evidence through the computer.
I and the second	
Continuous availability	Nonstop service, with no lapse in service; the highest level of service in which no downtime is allowed.

	The goals of continuous improvement (Kaizen) include the elimination of waste, defined as "activities
	that add cost, but do not add value;" just-in-time (JIT) delivery; production load leveling of amounts
	and types; standardized work; paced moving lines; and right-sized
	equipment. strong>Scope Notes: A closer definition of the Japanese usage of
	Kaizen is "to take it apart and put it back together in a better way." What is taken apart is usually a
	process, system, product or service. Kaizen is a daily activity whose purpose goes beyond improvement. It is also a process that, when done correctly, humanizes the workplace, eliminates
	hard work (both mental and physical), and teaches people how to do rapid experiments using the
Continuous improvement	scientific method and how to learn to see and eliminate waste in business processes.
Control center	Hosts the recovery meetings where disaster recovery operations are managed.
	A set of fundamental controls that facilitates the discharge of business process owner responsibilities
Control framework	to prevent financial or information loss in an enterprise.
Control consum	Members of the operations area who are responsible for the collection, logging and submission of
Control group	input for the various user groups.  A statement of the desired result or purpose to be achieved by implementing control procedures in a
Control objective	particular process.
	A discussion document that sets out an "enterprise governance model" focusing strongly on both the
	A discussion document that sets out an "enterprise governance model" focusing strongly on both the enterprise business goals and the information technology enablers that facilitate good enterprise
Control Objectives for Enterprise Governance	governance, published by the Information Systems Audit and Control Foundation in 1999.
	The boundary defining the scope of control authority for an entity. <pre>cbr/&gt; <strong>Scope Notes:</strong></pre>
	For example, if a system is within the control perimeter, the right and ability exist to control
Control perimeter	it in response to an attack.
Control practice	Key control mechanism that supports the achievement of control objectives through responsible use
Control practice	of resources, appropriate management of risk and alignment of IT with business.  The risk that a material error exists that would not be prevented or detected on a timely basis by the
Control risk	system of internal controls (See Inherent risk).
	A method/process by which management and staff of all levels collectively identify and evaluate risk
	and controls with their business areas. This may be under the guidance of a facilitator such as an
Control risk self-assessment	auditor or risk manager.
	The area of the central processing unit (CPU) that executes software, allocates internal memory and
Control of the Control	transfers operations between the arithmetic-logic, internal storage and output sections of the
Control section	computer.
	A deficiency in the design or operation of a control procedure. Control weaknesses can potentially
	result in risk relevant to the area of activity not being reduced to an acceptable level (relevant risk
	threatens achievement of the objectives relevant to the area of activity being examined). Control
	weaknesses can be material when the design or operation of one or more control procedures does
	not reduce to a relatively low level the risk that misstatements caused by illegal acts or irregularities
Control weakness	may occur and not be detected by the related control procedures.
	A message kept in the web browser for the purpose of identifying users and possibly preparing
	customized web pages for them. <pre>customized web pages for them.</pre> <pre>customized web pages for them.</pre> c
	set, a user may be required to go through a registration process. Subsequent to this, whenever the
	cookie's message is sent to the server, a customized view based on that user's preferences can be
	produced. The browser's implementation of cookies has, however, brought several security concerns,
	allowing breaches of security and the theft of personal information (e.g., user passwords that validate
Cookie	the user identity and enable restricted web services).
	An exchange rate that can be used optionally to perform foreign currency conversion. The corporate
Corporate exchange rate	exchange rate is generally a standard market rate determined by senior financial management for use throughout the enterprise.
corporate exertainge rate	ase anoughout the enterprise.
	The system by which enterprises are directed and controlled. The board of directors is responsible for
	the governance of their enterprise. It consists of the leadership and organizational structures and
Corporate governance	processes that ensure the enterprise sustains and extends strategies and objectives.
(0.00)	Responsible for coordinating the planning, development, implementation, maintenance and
Corporate security officer (CSO)	monitoring of the information security program.
Corrective control	Designed to correct errors, omissions and unauthorized uses and intrusions, once they are detected.
	Committee of Conseries Constitute of the Touristic Conseries of the Conseries Conserie
	Committee of Sponsoring Organizations of the Treadway Commission. strong>Scope Notes:  COSO's "Internal ControlIntegrated Framework" is an internationally accepted
COSO	standard for corporate governance. See www.coso.org.
Countermeasure	Any process that directly reduces a threat or vulnerability.
	·
	Measure of interconnectivity among structure of software programs. Coupling depends on the
	interface complexity between modules. This can be defined as the point at which entry or reference
	is made to a module, and what data pass across the interface. br/> <strong>Scope Notes:</strong>
	between modules. Simple connectivity among modules results in software that is easier to understand and maintain and is less prone to a ripple or domino effect caused when errors occur at
Coupling	one location and propagate through the system.
Coverage	The proportion of known attacks detected by an intrusion detection system (IDS).
	To "break into" or "get around" a software program.  strong>Scope Notes: For
	example, there are certain newsgroups that post serial numbers for pirated versions of software. A
	cracker may download this information in an attempt to crack the program so he/she can use it. It is commonly used in the case of cracking (unencrypting) a password or other sensitive data.
Crack	

Credentialed analysis	In vulnerability analysis, passive monitoring approaches in which passwords or other access credentials are required.  <strong>Scope Notes: </strong> Usually involves accessing a system data object
	The standards and benchmarks used to measure and present the subject matter and against which a IS auditor evaluates the subject matter. Strong>Scope Notes: Criteria should be Objectivefree from bias, Measurableprovide for consistent measurement, Completeinclude all relevant factors to reach a conclusion, Relevantrelate to the subject matter. In an attestation engagement, benchmarks against which management's written assertion on the subject matter can be evaluated. The practitioner forms a conclusion concerning subject matter by referring to suitable
Criteria	criteria.
	Business activities or information that could not be interrupted or unavailable for several business
Critical functions	days without significantly jeopardizing operation of the enterprise.  Systems whose incapacity or destruction would have a debilitating effect on the economic security or
Critical infrastructure	an enterprise, community or nation.
Critical success factor (CSF)	The most important issue or action for management to achieve control over and within its IT processes.
	An analysis to evaluate resources or business functions to identify their importance to the enterprise
Criticality analysis	and the impact if a function cannot be completed or a resource is not available.
	A certificate issued by one certificate authority (CA) to a second CA so that users of the first certification authority are able to obtain the public key of the second CA and verify the certificates is
	has created. br/> strong>Scope Notes: Often refers to certificates issued to each
Cross-certification Cross-certification	other by two CAs at the same level in a hierarchy
	A type of malicious exploit of a web site whereby unauthorized commands are transmitted from a user that the web site trusts (also known as a one-click attack or session riding); acronym pronounc
Cross-site request forgery (CSRF)	"sea-surf".
Cryptography	The art of designing, analyzing and attacking cryptographic schemes.
Customer relationship management (CRM)	A way to identify, acquire and retain customers. CRM is also an industry term for software solutions that help an enterprise manage customer relationships in an organized manner.  An investigator of activities related to computer crime.
урегсор	An investigation of activities related to computer crime.
	A document designed to influence individual and organizational behavior of employees, by defining organizational values and the rules to be applied in certain situations. Notes: A code of ethics is adopted to assist those in the enterprise called upon to make decisions understand the difference between 'right' and 'wrong' and to apply this understanding to
Code of ethics	their decisions. COBIT 5 perspective
Lode of editics	The ability to perform a specific task, action or function successfully strong>Scope Notes
Competence	COBIT 5 perspective
	The means of managing risk, including policies, procedures, guidelines, practices or organizational structures, which can be of an administrative, technical, management, or legal
	nature. <strong>Scope Notes: </strong> Also used as a synonym for safeguard or
Control	countermeasure.  A pattern of behaviors, beliefs, assumptions, attitudes and ways of doing
Culture	things str/> <strong>Scope Notes: </strong> COBIT 5 perspective
Chief Information Security Officer (CISO)	The person in charge of information security within the enterprise
Chief Security Officer (CSO)	The person usually responsible for all security matters both physical and digital in an enterprise
Cipher	An algorithm to perform encryption
	Convenient, on-demand network access to a shared pool of resources that can be rapidly provisioned
Cloud computing	and released with minimal management effort or service provider interaction  The situation that occurs when two or more demands are made simultaneously on equipment that
Collision	can handle only one at any given instant (Federal Standard 1037C)
	A catalogue of attack patterns as "an abstraction mechanism for helping describe how an attack
Common Attack Pattern Enumeration and Classification (CAPEC)	against vulnerable systems or networks is executed" published by the MITRE Corporation
Compartmentalization	A process for protecting very-high value assets or in environments where trust is an issue. Access to an asset requires two or more processes, controls or individuals.
on particulation	Adherence to, and the ability to demonstrate adherence to, mandated requirements defined by law
	and regulations, as well as voluntary requirements resulting from contractual obligations and intern
Compliance	policies  Policies, standard and procedures that document the actions that are required or prohibited.
Compliance documents	Violations may be subject to disciplinary actions.
·	Violations may be subject to disciplinary actions.  A new model in which emerging technologies are first embraced by the consumer market and later
Consumerization	Violations may be subject to disciplinary actions.
Consumerization Containment	Violations may be subject to disciplinary actions.  A new model in which emerging technologies are first embraced by the consumer market and later spread to the business
Consumerization Containment	Violations may be subject to disciplinary actions.  A new model in which emerging technologies are first embraced by the consumer market and later spread to the business  Actions taken to limit exposure after an incident has been identified and confirmed  The importance of a particular asset or function to the enterprise, and the impact if that asset or function is not available  A type of injection, in which malicious scripts are injected into otherwise benign and trusted web
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Consumerization Containment	Violations may be subject to disciplinary actions.  A new model in which emerging technologies are first embraced by the consumer market and later spread to the business  Actions taken to limit exposure after an incident has been identified and confirmed  The importance of a particular asset or function to the enterprise, and the impact if that asset or function is not available  A type of injection, in which malicious scripts are injected into otherwise benign and trusted web sites. <a href="https://creativecommons.org/br/&gt;strong&gt;Scope">br/&gt;</a> Notes: <a href="https://strong&gt;Scope">strong&gt;Scope</a> Notes: <a href="https://strong&gt;Cross-site scripting">strong&gt;Scope</a> Notes: <a href="https://strong&gt;Cross-site scripting">strong&gt;Scope</a> Notes: <a href="https://strong&gt;Cross-site scripting">strong&gt;Scope</a> Notes: <a href="https://strong&gt;Cross-site scripting">strong&gt;Scope</a> Notes: <a href="https://strong&gt;Cross-site scripting">strong&gt;Scripting</a> (XSS) attacks occur when an attacker uses a web application to send malicious code, generally in the form of a browser side script to a different end user. Flaws that allow these attacks to succeed are quite widespread and occur

C. harranista	The protection of information assets by addressing threats to information processed, stored, and
Cybersecurity	transported by internetworked information systems
	Describes the structure, components and topology (connections and layout) of security controls
	within an enterprise's IT infrastructure. <pre>c/br/&gt;<strong>Scope Notes: </strong>The security</pre> architecture shows how defense-in-depth is implemented and how layers of control are linked and is
Cybersecurity architecture	essential to designing and implementing security controls in any complex environment.
	Activities supported by military organizations with the purpose to threat the survival and well-being
Cyberwarfare CACS	of society/foreign entity http://www.isaca.org/ecommerce/Pages/north-america-cacs.aspx
G. NOS	mapy, ministratory, economic economic activities according
	A checksum value is generated by algorithm and associated with an input value and/or whole input
	file. The checksum value can be used to assess its corresponding input data or file at a later date and verify that the input has not been maliciously altered. It is highly improbable that an unauthorized
	party could alter the input without also altering the corresponding checksum output. If a subsequent
checksum	checksum value no longer matches the initial value, the input may have been altered or corrupted.
Damage evaluation	The determination of the extent of damage that is necessary to provide for an estimation of the recovery time frame and the potential loss to the enterprise.
	A tool for setting expectations for an enterprise at each level of responsibility and continuous
Dashboard	monitoring of the performance against set targets.
	Typically in large enterprises in which the amount of data processed by the enterprise resource planning (ERP) system is extremely voluminous, analysis of patterns and trends proves to be
	extremely useful in ascertaining the efficiency and effectiveness of
	operations. br/> <strong>Scope Notes:</strong> Most ERP systems provide opportunities for extraction and analysis of data (some with built-in tools) through the use of tools developed by third
Data analysis	parties that interface with the ERP systems.
,	
	The assignment of a level of sensitivity to data (or information) that results in the specification of controls for each level of classification. Levels of sensitivity of data are assigned according to
	predefined categories as data are created, amended, enhanced, stored or transmitted. The
Data classification	classification level is an indication of the value or importance of the data to the enterprise.
Data classification scheme	An enterprise scheme for classifying data by factors such as criticality, sensitivity and ownership.
	The transfer of data between separate computer processing sites/devices using telephone lines,
Data communications	microwave and/or satellite links.  The individual(s) and department(s) responsible for the storage and safeguarding of computerized
Data custodian	data.
	A database that contains the name, type, range of values, source and authorization for access for each data element in a database. It also indicates which application programs use those data so that
	when a data structure is contemplated, a list of the affected programs can be
Date distinguish	generated. strong>Scope Notes: May be a stand-alone information system used
Data diddling	for management or documentation purposes, or it may control the operation of a database  Changing data with malicious intent before or during input into the system.
	An algorithm for encoding binary data. strong>Scope Notes: It is a secret key
	cryptosystem published by the National Bureau of Standards (NBS), the predecessor of the US National Institute of Standards and Technology (NIST). DES and its variants has been replaced by the
Data Encryption Standard (DES)	Advanced Encryption Standards (AES)
· ·	The flow of data from the input (in Internet banking, ordinarily user input at his/her desktop) to
	output (in Internet banking, ordinarily data in a bank's central database). Data flow includes travel through the communication lines, routers, switches and firewalls as well as processing through
	various applications on servers, which process the data from user fingers to storage in a bank's
Data flow	central database.
Data integrity	The property that data meet with a priority expectation of quality and that the data can be relied on.
	Siphoning out or leaking information by dumping computer files or stealing computer reports and
Data leakage	tapes.
Data normalization	A structured process for organizing data into tables in such a way that it preserves the relationships among the data.
	The individual(s), normally a manager or director, who has responsibility for the integrity, accurate
Data owner	reporting and use of computerized data.
Data security	Those controls that seek to maintain confidentiality, integrity and availability of information.
Data structure	The relationships among files in a database and among data items within each file.
	A generic term for a system that stores, retrieves and manages large volumes of
	data. strong>Scope Notes: Data warehouse software often includes
Data warehouse	sophisticated comparison and hashing techniques for fast searches as well as for advanced filtering.  A stored collection of related data needed by enterprises and individuals to meet their information
Database	processing and retrieval requirements.
	An individual or department responsible for the security and information classification of the shared
Database administrator (DBA)	data stored on a database system. This responsibility includes the design, definition and maintenance of the database.
Database management system (DBMS)	A software system that controls the organization, storage and retrieval of data in a database.

	The process of creating and managing duplicate versions of a database. Notes: Replication not only copies a database but also synchronizes a set of replicas so that changes made to one replica are reflected in all of the others. The beauty of replication is that it enables many users to work with their own local copy of a database, but have the database updated as if they were working on a single centralized database. For database applications in which, geographically users are distributed widely, replication is often the most efficient method of database
Database replication	geographically users are distributed widery, replication is often the most enicient method of database access.
Database specifications	These are the requirements for establishing a database application. They include field definitions, field requirements and reporting requirements for the individual information in the database.
Datagram	A packet (encapsulated with a frame containing information), that is transmitted in a packet- switching network from source to destination.
Data-oriented systems development	Focuses on providing ad hoc reporting for users by developing a suitable accessible database of information and to provide useable data rather than a function.
Decentralization	The process of distributing computer processing to different locations within an enterprise.
Decision support systems (DSS)	An interactive system that provides the user with easy access to decision models and data, to support semi structured decision-making tasks.
Decryption	A technique used to recover the original plaintext from the ciphertext so that it is intelligible to the reader. The decryption is a reverse process of the encryption.
	A digital piece of information used to recover plaintext from the corresponding ciphertext by
Decryption key	decryption. A computer software setting or preference that states what will automatically happen in the event
	that the user has not stated another preference. For example, a computer may have a default setting to launch or start Netscape whenever a GIF file is opened; however, if using Photoshop is the preference for viewing a GIF file, the default setting can be changed to Photoshop. In the case of
Default	default accounts, these are accounts that are provided by the operating system vendor (e.g., root in UNIX).
Default deny policy	A policy whereby access is denied unless it is specifically allowed; the inverse of default allow.
	The password used to gain access when a system is first installed on a computer or network device. device. /> strong>Scope Notes: There is a large list published on the Internet and maintained at several locations. Failure to change these after the installation leaves the system
Default password	vulnerable.  The practice of layering defenses to provide added protection. Defense in depth increases security by raising the effort needed in an attack. This strategy places multiple barriers between an attacker and
Defense in depth	an enterprise's computing and information resources.
Degauss	The application of variable levels of alternating current for the purpose of demagnetizing magnetic recording media. strong>Scope Notes: The process involves increasing the alternating current field gradually from zero to some maximum value and back to zero, leaving a very low residue of magnetic induction on the media. Degauss loosely means to erase.
Demodulation	The process of converting an analog telecommunications signal into a digital computer signal.
Demographic	A fact determined by measuring and analyzing data about a population; it relies heavily on survey research and census data.
Denial-of-service attack (DoS)	An assault on a service from a single source that floods it with so many requests that it becomes overwhelmed and is either stopped completely or operates at a significantly reduced rate.  The process of cost allocation that assigns the original cost of equipment to the periods benefited.
Depreciation	<br< td=""></br<>
Detailed IS controls	Controls over the acquisition, implementation, delivery and support of IS systems and services made up of application controls plus those general controls not included in pervasive controls.
Detective application controls	Designed to detect errors that may have occurred based on predefined logic or business rules. Usually executed after an action has taken place and often cover a group of transactions.
Detective control	Exists to detect and report when errors, omissions and unauthorized uses or entries occur.
Device	A generic term for a computer subsystem, such as a printer, serial port or disk drive . A device frequently requires its own controlling software, called a device driver.  Used as a control over dial-up telecommunications lines. The telecommunications link established
	through dial-up into the computer from a remote location is interrupted so the computer can dial back to the caller. The link is permitted only if the caller is calling from a valid phone number or
Dial-back Dial-in access control	telecommunications channel.  Prevents unauthorized access from remote users who attempt to access a secured environment.  Ranges from a dial-back control to remote user authentication.
Digital certification	A process to authenticate (or certify) a party's digital signature; carried out by trusted third parties.
Digital certification  Digital code signing	The process of digitally signing computer code to ensure its integrity.
Digital signature	A piece of information, a digitized form of signature, that provides sender authenticity, message integrity and non-repudiation. A digital signature is generated using the sender's private key or applying a one-way hash function.
	An engagement in which management does not make a written assertion about the effectiveness of their control procedures and an IS auditor provides an opinion about subject matter directly, such as

	1. A sudden, unplanned calamitous event causing great damage or loss. Any event that creates an
	inability on an organization's part to provide critical business functions for some predetermined period of time. Similar terms are business interruption, outage and catastrophe. br>
	period of time. Similar terms are business interruption, outage and catastrophic. Six No. 22. The
	exercises its disaster recovery plan. Typically signifies the beginning of a move from a primary to an
Disaster	alternate location.
Disaster declaration	The communication to appropriate internal and external parties that the disaster recovery plan (DRP) is being put into operation.
Disaster declaration	The fee that the recovery site vendor charges when the customer notifies them that a disaster has
	occurred and the recovery site is required. strong>Scope Notes: The fee is
Disaster notification fee	implemented to discourage false disaster notifications.
	Activities and programs designed to return the enterprise to an acceptable condition. The ability to
	respond to an interruption in services by implementing a disaster recovery plan (DRP) to restore an
Disaster recovery	enterprise's critical business functions.  A set of human, physical, technical and procedural resources to recover, within a defined time and
Disaster recovery plan (DRP)	cost, an activity interrupted by an emergency or disaster
, , , , , , , , , , , , , , , , , , ,	
	Typically a read-through of a disaster recovery plan (DRP) without any real actions taking
	place. <strong>Scope Notes: </strong> Generally involves a reading of the plan, discussion
Disaster recovery plan (DRP) desk checking	of the action items and definition of any gaps that might be identified
	Generally a robust test of the recovery plan requiring that some recovery activities take place and are
	tested. A disaster scenario is often given and the recovery teams talk through the steps that they
Disaster recovery plan (DRP) walk-through	would need to take to recover. As many aspects of the plan as possible should be tested.
Disaster tolerance	The time gap during which the business can accept the non-availability of IT facilities.
	The processes in place designed to help ensure that all material information is disclosed by an
	enterprise in the reports that it files or submits to the U.S. Security and Exchange Commission
	(SEC). /strong>Scope Notes: Disclosure Controls and Procedures also require that
	disclosures be authorized, complete and accurate, and recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms. Deficiencies in controls, and
	any significant changes to controls, must be communicated to the enterprise's audit committee and
	auditors in a timely manner. An enterprise's principal executive officer and financial officer must
Disclosure controls and procedures	certify the existence of these controls on a quarterly basis.
	An interest rate used to calculate a present value which might or might not include the time value of
Discount rate	money, tax effects, risk or other factors.
Dissevent compling	A form of attribute sampling that is used to determine a specified probability of finding at least one
Discovery sampling	example of an occurrence (attribute) in a population.  A means of restricting access to objects based on the identity of subjects and/or groups to which they
	belong. belong.  belong.  belong.   <b< td=""></b<>
	subject with a certain access permission is capable of passing that permission (perhaps indirectly) on
Discretionary access control (DAC)	to any other subject.
	The practice of duplicating data in separate volumes on two hard disks to make storage more fault
P. L. Marian I.	tolerant. Mirroring provides data protection in the case of disk failure because data are constantly
Disk mirroring	updated to both disks.  A workstation or PC on a network that does not have its own disk, but instead stores files on a
Diskless workstations	network file server.
	A system of computers connected together by a communication network.  <strong>Scope</strong>
	Notes: Each computer processes its data and the network supports the system as a whole.
	Such a network enhances communication among the linked computers and allows access to shared
Distributed data processing network	files.
Distributed denial-of-service attack (DDoS)	A denial-of-service (DoS) assault from multiple sources.
	The method of routing traffic through split cable facilities or duplicate cable
	facilities. strong>Scope Notes: This can be accomplished with different and/or
	duplicate cable sheaths. If different cable sheaths are used, the cable may be in the same conduit
	and, therefore, subject to the same interruptions as the cable it is backing up. The communication
	service subscriber can duplicate the facilities by having alternate routes, although the entrance to and
	from the customer premises may be in the same conduit. The subscriber can obtain diverse routing
	and alternate routing from the local carrier, including dual entrance facilities. However, acquiring this type of access is time-consuming and costly. Most carriers provide facilities for alternate and diverse
	routing, although the majority of services are transmitted over terrestrial media. These cable
	facilities are usually located in the ground or basement. Ground-based facilities are at great risk due
	to the aging infrastructures of cities. In addition, cable-based facilities usually share room with
	mechanical and electrical systems that can impose great risk due to human error and disastrous
Diverse routing	events.
	In COBIT, the grouping of control objectives into four logical stages in the life cycle of investments
Domain	involving IT (Plan and Organise, Acquire and Implement, Deliver and Support, and Monitor and Evaluate).
Domain	Lvaluatej.
	A hierarchical database that is distributed across the Internet that allows names to be resolved into IP
Domain name system (DNS)	addresses (and vice versa) to locate services such as web and e-mail servers.
	Corrupts the table of an international DNC contains an international discount to the second of the s
	Corrupts the table of an Internet server's DNS, replacing an Internet address with the address of another vagrant or scoundrel address. 
	for the page with that address, the request is redirected by the scoundrel entry in the table to a
	different address. Cache poisoning differs from another form of DNS poisoning in which the attacker
	spoofs valid e-mail accounts and floods the "in" boxes of administrative and technical contacts. Cache
	poisoning is related to URL poisoning or location poisoning, in which an Internet user behavior is
	tracked by adding an identification number to the location line of the browser that can be recorded
Domain name system (DNS) poisoning	as the user visits successive pages on the site. It is also called DNS cache poisoning or cache poisoning.

of statisty, with y-fact prospecting system, based on the balances concreand (MSL), that allows prosess to be commotioned against state corrective actions to taken it rejuried.  The state of transferring computationed information from one computer to another computer.  A report that identifies the eligended from which or computer to another computer.  A report that identifies the eligended from which a computer is not operating correctly sectored or machine failure.  Deservice fielde and risk!  Refer to a sprinkler system that does not have water in the place during life usage, reliable to a sprinkler system that does not have water in the place during life usage, reliable to the sprinkler system that does not have water in the place at limited, or computer to the place from a value of the sprinkler system that does not have water in the place at limited, or computer to the place of the sprinkler system that does not have water in the place at limited, or computer to the place from a value of the sprinkler system that does not have water in the place at limited, or computer to the place from a value of the sprinkler system that does not have water in the place at limited, or computer to the place of the sprinkler or the sprinkler system that does not have water that the most of the fire at large place of the place by sprinkler system that does not have water in the place at limited, and the place of the sprinkler system that the place of		
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Downtine Faiture.  A driver includes an event or other activity that results in the identification of an assurance/audit  Priver (value and risk)  Refices to a spreader system that flore are to see state in the jobes during itle usage, until so faith, charged fire extinguisher system that has water in the pipes during itle usage, until so faith, charged fire extinguisher system that has water in the pipes and times city/-or/-carcop-cop objects. "Affordable that is seen an activated at the time fire alarm and water is entitle to the pipes from a water reservoir for discharge to the location of the fire alarm and water is entitle to the pipes from a water reservoir for discharge to the location of the fire alarm and water is entitle to the pipes from a water reservoir for discharge to the location of the fire alarm and water is entitle to the pipes from a water reservoir for discharge to the location of the fire alarm and water is entitle to the control.  The level of care expected from a reasonable person of similar competency under similar conditions are considered to the control of the care and construction of the care and construction, review and/or analysis.  Due defined to the care and the care and construction of the care and construction, review and/or analysis.  Due to the care and the care and construction of the care and construction, review and/or analysis.  Analysis that is performed in a real time or continuous form.  A protocol used by networked computers (clients) to obtain P addresses and delta per analysis.  Analysis that is performed in a real time or continuous form.  A protocol used by networked computers (clients) to obtain P addresses and enter personal to the continuous form.  A protocol used by networked computers (clients) to obtain P addresses and enter personal to the continuous form.  A protocol used by networked computers (clients) to obtain P addresses and enter person		<u> </u>
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Series to a sprinkler system that does not have water in the pipes during elle usage, unlike a fully charged fire extinguisher system that has water in the pipes at all times-fully-fully-activing-food Notes-(-\frac{\triangle}{\triangle}) file of the system that has water in the pipes at all times-fully-fully-activing-food Notes-(-\frac{\triangle}{\triangle}) file of the full and water review for discharge to the function of the fire.  A procedure that we show or more carelless (sousing present) operating in concert to protect a system of the size of the function of the fire.  The level of care expected from a resonable person of infliant competency under similar condition.  Due care  The performance of those actions that are generally regarded as prudent, responsible and necess to conduct a thorough and objective investigation, review and/or analysis.  Due professional care  A property and a person, who prosesses aspectal ally, well-put-y-carrong-Sope Netes - (strong-plum terminals are designed from the main competer for processing, All entered data are accepted with further editing or validation.  A protect such a person which the computer for processing, All entered data are accepted with the red main control of the processes and other parameters is at the default parents, such control of the processes and other parameters is at the default parents, such control of the processes and other parameters is a subject of the processing and file of the parameters are willow (e.g., no P addresses a second client while the first clients) and processing and memory to multiple applications and data on as server.  Portain the process of the processing and file of the parameters of the parameters of the parameters of the parameters are willow (e.g., no P addresses as a subfer none between a trusted and unity of the parameters and the parameters are willow (e.g., no P addresses as a subfer none between a trusted and unity of the par		A driver includes an event or other activity that results in the identification of an assurance/audit
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Diligence that a person, who possessors a specific under a given set of circumstances.  A display terminal without processing capability, cbr/&gt;cbr/sctrong-Scope Notes: c/strong-Dumit terminals are dependent on the main computer for processing. All entered data are accepted with further editing or validation.  Duplex routing  The method or communication mode of routing data over the communication network.  Analysis that is performed in a real-time or conditions from.  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Due professional care  Due professional care  Due professional care  Circumstances.  A display terminal without processing capability, cbr/&gt;-bcr/&gt;-ctrong-Scope Notes:  In command the command of the comman&lt;/td&gt;&lt;td&gt;Dual control&lt;/td&gt;&lt;td&gt;resource so that no single entity acting alone can access that resource.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;The performance of those actions that are generally regarded as prudent, responsible and necess to conduct a thorough and objective investigation, review and/or analysis.  Diligence that a person, who possesses a spall, illy would excrete under a given set of circumstances.  A display terminal without processing capability-ctr/&gt;bit/&gt;sctrong&gt;Scope Notes:   A display terminal without processing and sear accepted with the first of the school of the sear accepted with the first of the school of the sear accepted with the first clears of the display school used by networked computers (clients) to obtain IP addresses and other parameters as at the default gateway, subnet mask and IP addresses of domain name system (NOS) servers for DICP severe-ctr/&gt;bit/&gt;school-pit-cytorg&gt;Scope Notes:   A protocol used by networked computers (clients) to obtain IP addresses and other parameters as at the default gateway, subnet mask and IP addresses and other parameters as at the default gateway, subnet mask and IP addresses and other parameters as at the default gateway. 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P) address; and that while the first client's assignment is valid [list lease has not expired]). Thus, IP address pool management is done by the server and not by a human network adminant processing unit (CPU) processing and memory to multiple applications and data on a server.  Dynamic partitioning  The variable allocation of central processing unit (CPU) processing and memory to multiple applications and data on a server.  Refers to the policies that govern data and records management for meeting internal, legal and regulatory data archival requirements.  Demilitarized zone (DMZ)  as web server that must be accessible from both internal returbor's and the internal. The restriction of servinal processing unit (CPU) processing and unitru networks. 2017-2017-25100&lt;/td&gt;&lt;td&gt;Due diligence&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;A display terminal without processing capability.br/p-/cb/&gt;sctrong&gt;Scope Notes: &lt;a href=" https:="" j.com="" p-cstrong="">Scope Notes: /strong&gt;Scope Notes: /strong&gt;Scope</a>		
bumb terminal further editing or validation.  Duplex routing The method or communication mode of routing data over the communication network.  Dynamic analysis  A protocol used by networked computers (clients) to obtain IP addresses and other parameters is as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers from DHCP server-chr/-chr/-chr/-chry-strong>Scope Notes: <a href="https://dx.tong/scope.notes/strong&gt;The DHCP server ensures that all IP addresses are unique (e.g., no IP address is assigned to a second client while the first client's assignment is valid [Its lease has not expired]. Thus, IP address pool management is done by the server and not by a muman network and proposed processing unit (CPU) processing and memory to multiple programming applications and data on a server.  Dynamic partitioning applications and data on a server.  Refers to the policies that govern data and records management for meeting internal, legal and regulatory data arrival requirements.  A screened (firewalled) network segment that acts as a buffer zone between a trusted and untrue network. Arrival requirements.  A screened (firewalled) network segment that acts as a buffer zone between a trusted and untrue network. Arrival-fival-restorage-Scope Notes: &lt;a href=" https:="" scrip.gr-scope.notes.notes-note<="" td=""><td>Due professional care</td><td>circumstances.</td></a>	Due professional care	circumstances.
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Dynamic analysis  A protocol used by networked computers (clients) to obtain IP addresses and other parameters of as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers for DHCP server, c-tyr/>c-tyr/>strong>Scope Notes:       A protocol used by networked computers (clients) to obtain IP addresses and other parameters of as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers for DHCP server chry/>c-tyr/>strong>Scope Notes:      Addresses are unique (e.g., no IP address is assigned to a second client while the first client is assignment to said (lift is lean has not all it leans pool management is done by the server and not by a human network administrator.     The variable allocation of central processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment is valid (lift is lean has not processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment is valid in the server of the processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment is valid to the processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment is valid to the processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment is valid to the processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment to a server the processing unit (CPU) processing and memory to multiple applications and data on a server.     Assignment to a server the processing the processing and the processing and the processing and processing and the processing and the processing and the processing and processing and the processing	Dumb terminal	<u> </u>
A protocol used by networked computers (clients) to obtain IP addresses and other parameters or as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers from DHCP server-chry-chry-cstrong-Scope Notes: <a href="https://cstrong-Scope">https://cstrong-Scope</a> Notes: <a a="" cstrong-scope<="" href="https://cstrong-Scope&lt;/a&gt; Notes: &lt;a href=" https:=""> Notes: <a a="" cstrong-scope<="" href="https://cstrong-Scope&lt;/a&gt; Notes: &lt;a href=" https:=""> Notes: <a creativecommons.org="" href="https://cst&lt;/td&gt;&lt;td&gt;Duplex routing&lt;/td&gt;&lt;td&gt;The method or communication mode of routing data over the communication network.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers from DHCP server (Ar/J-&gt;/b-/Y-ctrong-Scope Notes: «Strong-The DHCP server ensures that all IP addresses are unique (e.g., no IP address is assigned to a second client while the first client's assignment is valid (its lease has not expired)). Thus, IP address pool management is done by the server and not by a human network administrator.  The variable allocation of central processing unit (CPU) processing and memory to multiple applications and data on a server.  Refers to the policies that govern data and records management for meeting internal, legal and regulation of data processing unit (CPU) processing and memory to multiple applications and data on a server.  A screened (firewalled) network segment that acts as a buffer zone between a trusted and untrue network. chr/s-/hr/-satrong-Scope Notes: «fstrong-ADM2 is typically used to house systems su as web servers that must be caused in internal networks and the internal. The risk that the IS audit or assurance professional's substantive procedures will not detect an error that could be material, individually or in combination with other errors. chr/s-/hr/s-/trong-Scope Notes: «fstrong-ADM2-fylor/s-strong-Scope Notes: (sftrong-ADM2-fylor/s-strong-Scope Notes: (sftrong-ADM2-fylor-strong-Scope Notes: (sftrong-ADM2-fy&lt;/td&gt;&lt;td&gt;Dynamic analysis&lt;/td&gt;&lt;td&gt;Analysis that is performed in a real-time or continuous form.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers from DHCP server (Ar/D-Ar/D-Artong-Scope Notes: «Strong-The DHCP server ensures that all IP addresses are unique (e.g., no IP address is assigned to a second client while the first client's assignment is valid (its lease has not expired)). Thus, IP address pool management is done by the server and not by a human network administrator.  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Tu&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;DHCP server, cot/p-/cot/p-sctrongs-Scope Notes: &lt;/strongs-The DHCP server ensures that all IP addresses as signement is valid [it is each as not expired]). Thus, IP address pool management is done by the server and not by a human network administrator.  The variable allocation of central processing unit (CPU) processing and memory to multiple applications and data on a server.  Refers to the policies that govern data and records management for meeting internal, legal and regulatory data archival requirements  A screened (firewalled) network segment that acts as a buffer zone between a trusted and untrus network. &lt;a href=" https:="" lives="" note<="" notes:="" scrongs-scope="" strongs-scope="" td=""><td></td><td></td></a></a></a>		
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· ·	Economic value add (EVA)	physical property and equipment are measured against what shareholders could earn elsewhere.
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		physical property and equipment are measured against what shareholders could earn elsewhere.  Detects errors in the input portion of information that is sent to the computer for processing. May be manual or automated and allow the user to edit data errors before processing.
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more efficient paperless environment. EDI transmissions can replace the use of standard docume	Edit control	physical property and equipment are measured against what shareholders could earn elsewhere.  Detects errors in the input portion of information that is sent to the computer for processing. May be manual or automated and allow the user to edit data errors before processing.  Ensures that data conform to predetermined criteria and enable early identification of potential
Mark 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Edit control	physical property and equipment are measured against what shareholders could earn elsewhere.  Detects errors in the input portion of information that is sent to the computer for processing. May be manual or automated and allow the user to edit data errors before processing.  Ensures that data conform to predetermined criteria and enable early identification of potential errors.  The electronic transmission of transactions (information) between two enterprises.EDI promotes a

	An administrative document (a document with legal validity, such as a contract) in any graphical, photographic, electromagnetic (tape) or other electronic representation of the
	content. <strong>Scope Notes: </strong> Almost all countries have developed legislation concerning the definition, use and legal validity of an electronic document. An electronic document, in whatever media that contains the data or information used as evidence of a contract or transaction
	between parties, is considered together with the software program capable to read it. The definition of a legally valid document as any representation of legally relevant data, not only those printed on paper, was introduced into the legislation related to computer crime. In addition, many countries in defining and disciplining the use of such instruments have issued regulations defining specifics, such
Electronic document	as the electronic signature and data interchange formats.  The exchange of money via telecommunications. EFT refers to any financial transaction that
Electronic funds transfer (EFT)	originates at a terminal and transfers a sum of money from one account to another.
Electronic signature	Any technique designed to provide the electronic equivalent of a handwritten signature to demonstrate the origin and integrity of specific data. Digital signatures are an example of electronic signatures.
Ü	A data recovery strategy that allows enterprises to recover data within hours after a disaster. cyr/> <strong>Scope Notes: </strong> Typically used for batch/journal updates to critical
Electronic vaulting	files to supplement full backups taken periodically; includes recovery of data from an offsite storage media that mirrors data via a communication link
	Integral part of an application system that is designed to identify and report specific transactions or other information based on pre-determined criteria. Identification of reportable items occurs as part
Embedded audit module (EAM)	of real-time processing. Reporting may be real-time online or may use store and forward methods.  Also known as integrated test facility or continuous auditing module.
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Encapsulation (objects)	The technique used by layered protocols in which a lower-layer protocol accepts a message from a higher-layer protocol and places it in the data portion of a frame in the lower layer.
	The process of taking an unencrypted message (plaintext), applying a mathematical function to it
Encryption	(encryption algorithm with a key) and producing an encrypted message (ciphertext).  A piece of information, in a digitized form, used by an encryption algorithm to convert the plaintext
Encryption key	to the ciphertext.
End-user computing	The ability of end users to design and implement their own information system utilizing computer software products.
Engagement letter	Formal document which defines an IS auditor's responsibility, authority and accountability for a specific assignment.
Enterprise	A group of individuals working together for a common purpose, typically within the context of an organizational form such as a corporation, public agency, charity or trust.
	Description of the fundamental underlying design of the components of the business system, or of one element of the business system (e.g., technology), the relationships among them, and the
Enterprise architecture (EA)	manner in which they support the enterprise's objectives.
Enterprise architecture (EA) for IT	Description of the fundamental underlying design of the IT components of the business, the relationships among them, and the manner in which they support the enterprise's objectives.
Enterprise governance	A set of responsibilities and practices exercised by the board and executive management with the goal of providing strategic direction, ensuring that objectives are achieved, ascertaining that risk is managed appropriately and verifying that the enterprise's resources are used responsibly.
Enterprise risk management (ERM)	The discipline by which an enterprise in any industry assesses, controls, exploits, finances and monitors risk from all sources for the purpose of increasing the enterprise's short- and long-term value to its stakeholders.
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	A packaged business software system that allows an enterprise to automate and integrate the majority of its business processes, share common data and practices across the entire enterprise, and produce and access information in a real-time environment by/> <str></str> <strong>Scope Notes:</strong>
ERP (enterprise resource planning) system  Error	Examples of ERP include SAP, Oracle Financials and J.D. Edwards. A deviation from accuracy or correctness. br/> <strong>Scope Notes: </strong> As it relates to
	audit work, errors may relate to control deviations (compliance testing) or misstatements (substantive testing).
	A person, agency or enterprise that is authorized to act on behalf of another to create a legal
	relationship with a third party in regard to an escrow agreement; the custodian of an asset according to an escrow agreement. cyr/> <strong>Scope Notes: </strong> As it relates to a cryptographic
Escrow agent	key, an escrow agent is the agency or enterprise charged with the responsibility for safeguarding the key components of the unique key.
	A legal arrangement whereby an asset (often money, but sometimes other property such as art, a
	deed of title, web site, software source code or a cryptographic key) is delivered to a third party (called an escrow agent) to be held in trust or otherwise pending a contingency or the fulfillment of a condition or conditions in a contract. condition or conditions in a contract. 
	the escrow agent is bound by his/her fiduciary duty to maintain the escrow account. Source code escrow means deposit of the source code for the software into an account held by an escrow agent. Escrow is typically requested by a party licensing software (e.g., licensee or buyer), to ensure maintenance of the software. The software source code is released by the escrow agent to the
Escrow agreement	licensee if the licensor (e.g., seller or contractor) files for bankruptcy or otherwise fails to maintain and update the software as promised in the software license agreement.
	and appear and a source of the

The 6	etermined range or may not conform to specified criteria.  xclusive-OR operator returns a value of TRUE only if just one of its operands is  -br/>>strong>Scope Notes: The XOR operation is a Boolean operation that  uces a 0 if its two Boolean inputs are the same (0 and 0 or 1 and 1) and that produces a 1 if its
reports         pred           The e         TRUE           prod         two i           OR (XOR)         eithe           e code         The r           The r         The r	xclusive-OR operator returns a value of TRUE only if just one of its operands is   strong>Scope Notes: The XOR operation is a Boolean operation that
The 6	xclusive-OR operator returns a value of TRUE only if just one of its operands is   strong>Scope Notes: The XOR operation is a Boolean operation that
TRUE   prod   two i	. <strong>Scope Notes: </strong> The XOR operation is a Boolean operation that
OR (XOR)         eithe           e code         The r           The r         The r	
two i OR (XOR) eithe e code The r The r	
OR (XOR)         either           e code         The r           The r         The r	nputs are different (1 and 0). In contrast, an inclusive-OR operator returns a value of TRUE if
e code The r The r	r or both of its operands are TRUE.
The r	nachine language code that is generally referred to as the object or load module.
	nost prevalent type of computer system that arises from the research of artificial
	gence. strong>Scope Notes: An expert system has a built in hierarchy of
	which are acquired from human experts in the appropriate field. Once input is provided, the
syste	m should be able to define the nature of the problem and provide recommendations to solve
stem the p	roblem.
	otential loss to an area due to the occurrence of an adverse event.
<u> </u>	bit code representing 256 characters; used in most large computer systems
	ibes an enterprise that extends outside its traditional boundaries. Such enterprise concentrate
	e processes they do best and rely on someone outside the entity to perform the remaining
	larative online software application user access control policy language implemented in
	sible Markup Language (XML).
. recess control markap cangadge (whench	soe manap cangaage (mich
Prom	ulgated through the World Wide Web Consortium, XML is a web-based application development
	ique that allows designers to create their own customized tags, thus, enabling the definition,
	mission, validation and interpretation of data between applications and enterprises.
The r	outer at the extreme edge of the network under control, usually connected to an Internet
	e provider (ISP) or other service provider; also known as border router.
	ocation that contains the backup copies to be used in case recovery or restoration is required in
-	vent of a disaster.
·	rate network that resides on the Internet and allows a company to securely share business
	nation with customers, suppliers or other businesses as well as to execute electronic
	actions.  <strong>Scope Notes: </strong> Different from an Intranet in that it is located and the company's firewall. Therefore, an extranet relies on the use of securely issued digital
·	icates (or alternative methods of user authentication) and encryption of messages. A virtual
	te network (VPN) and tunneling are often used to implement extranets, to ensure security and
priva	
	  <strong>Scope Notes: </strong> See Business goal
oping Lister	ning a private communication without permission
Netw	ork communications going out
	gorithm that combines plane geometry with algebra to achieve stronger authentication with
	er keys compared to traditional methods, such as RSA, which primarily use algebraic
	ring //br/> <strong>Scope Notes: </strong> Smaller keys are more suitable to mobile
curve cryptography (ECC) devic	
	col, which is designed to provide a mix of security services in IPv4 and IPv6. ESP can be used to
·	de confidentiality, data origin authentication, connectionless integrity, an anti-replay service (a of partial sequence integrity), and (limited) traffic flow confidentiality. (RFC
	or partial sequence integrity), and (limited) traffic flow — confidentiality. (KFC ) <a href="https://creativecommons.org/limited">https://creativecommons.org/limited</a> ) / creativecommons. <a creativecommons.org="" href="https://creativecommons.org/limited&lt;/a&gt;) / creativecommons. &lt;a href=" https:="" limited"="">https://creativecommons.org/limited</a> ) / creativecommons. <a a="" creativecommons.org="" href="https://creativecommons.org/limited&lt;/a&gt;) / creativecommons. &lt;a href=" https:="" limited<="">) / creativecommons. <a a="" creativecommons.org="" href="https://creativecommons.org/limited&lt;/a&gt;) / creativecommons. &lt;a href=" https:="" limited<="">) / creativecommons. <a creativecommo<="" href="https://creativecommons.org/limited&lt;/a&gt;) / creativecommons. &lt;a href=" https:="" td=""></a></a></a>
	e the next layer protocol header (transport mode) or before an encapsulated IP header (tunnel
ation security payload (ESP) mode	
	thematically based function or
	lation that encrypts/decrypts data
	containment measures have been deployed after an incident occurs, the root cause of the
	ent must be identified and removed from the network -/br/> <strong>Scope Notes:</strong>
incid	ong>Eradication methods include: restoring backups to achieve a clean state of the system,
incid <td></td>	
incid remo	ving the root cause, improving defenses and performing vulnerability analysis to find further
incid remo pote	ving the root cause, improving defenses and performing vulnerability analysis to find further itial damage from the same root cause.
incid remo pote	ving the root cause, improving defenses and performing vulnerability analysis to find further
incid <td>ving the root cause, improving defenses and performing vulnerability analysis to find further stial damage from the same root cause.</td>	ving the root cause, improving defenses and performing vulnerability analysis to find further stial damage from the same root cause.
incid remc on poter Full t	ving the root cause, improving defenses and performing vulnerability analysis to find further itial damage from the same root cause.

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modification tools not work as interested chip*-fer/*-stramption where characteristic receivance in receivant presentation of the part of the part of the intermediation of ordinary. Biolog procedure is necessary to the control of the part of the		A plan of action or set of procedures to be performed if a system implementation, upgrade or
nedeste to ensure that croman business processes contribute in the event of failure and should be considered in specim agriculture of interest and should be considered in specim agriculture that procedule with way a pregram will be an advantable face.  Also collected in specimen and account of the specimen and		modification does not work as intended.  <strong>Scope Notes: </strong> May involve
Jaliants consoluents  An optimized doze based and aborth prediction which may a program will brane an application is presented.  An optimized doze based and a branch prediction that predicts which way a program will brane an application is presented.  Decrus when an unsubstrated person is identified as an outbrist person by the borrecits system.  Cocur when an unsubstrated person is identified as an outbrist system.  Cocur when an unsubstrated person is identified as an outbrist system.  Cocur when an unsubstrated person manages to enroll lists the borrecits system.  Cocur when an unsubstrated person manages to enroll lists the borrecits system.  Cocur when an unsubstrated person manages to enroll lists the borrecits system.  Cocur when an unsubstrated as a problem when, in selecting process of acquired system.  Cocur when an unsubstrated as a problem when, in selecting process of acquired solventies.  A petition is level of manages of the process of acquired solventies.  A petition is level of manages of the problem when it is always an output of the accurate of acquired solventies.  A physical that has been ensolventy identified as a problem when, in called, he actual solventies.  A physical that has been ensolventy identified as a problem when, in called, he actual to describe the facilities.  A physical that has been ensolventy identified as a problem when, in called, he actual to the common of the accurate of the common of the co		restoring the system to its state prior to the implementation or change. Fallback procedures are
An optimized and onle based on a branch production who aye aprogram will break an application in premised. Also called fails acceptance, occurs when an unsultaboticed person in identified as an authority person by the Bistories system.  Clears when an unsultaboticed person manages to credit into the Bistories of Sequence of the Control of Sequence of S		needed to ensure that normal business processes continue in the event of failure and should always
an application is presented.  Allow collet of that aroughtane, course when an unauthorized person is identified as an authorize person is identified as an authorized person is identified as an authorized person in identified as an authorized person in identified as an authorized person manages to entrol into the biometric systems, chip-story-box-box-forcep-	Fallback procedures	
Sales authorisation  Cocus when an unauthorized person manages to emplify the the bismetric system, obj.—Fair.—Fair.—Storage-Stoppe Mobiles: Storage-fair-otherest is the establishment with the storage of acquiring the bismetric system, obj.—Fair.—Fair.—Storage-fair-otherest is the establishment of bismetric desiration and another is an appearant inference on a nature and a left, or in a carbon of acquiring the property of the establishment of the storage of the property of the establishment of the color of the establishment of the establis	Fall-through logic	
Occur when an unauthorized person manages to enroll into the biometric systems objectively-betry-carrego-lospe pleases; of composition of the biometric systems objectively-betry-carrego-lospe pleases; of composition of the property of the control of the property	False authorization	Also called false acceptance, occurs when an unauthorized person is identified as an authorized person by the biometric system.
system conformant bismettic feature and along it as a period leferance on a nature and a PC or in a central defender on an anterior as a period of the institution detection, an error that occurs when an attack is mindiagenous as a normal activit false possible false possible A result that has been manabenly identified as a groblem when, in reality, the situation is non Part to terrance A potential sequit or definition to a service of source failure. A potential sequit or definition to a service of source failure. A phase of a system development life cycle (SDLC) methodology that researches the fassibility study A phase of a system development life cycle (SDLC) methodology that researches the fassibility study A phase of a system development life cycle (SDLC) methodology that researches the fassibility study A phase of a system development life cycle (SDLC) methodology that researches the fassibility study  A phase of a system development life cycle (SDLC) methodology that researches the fassibility study  A phase of a system development life cycle (SDLC) methodology that researches the fassibility study  A phase of a system development life cycle (SDLC) methodology that researches the fassibility study  A phase of a system development life cycle (SDLC) methodology that researches the fassibility study  A phase of a system development life cycle (SDLC) methodology that researches the system of the development of a system policien to a		
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False positive  A result that has been missakenly identified as a problem when, in reality, the situation is not fruit tolerance  A system fixed of resilience to seamlessly recent to hardware analysis software failure.  A plane of a system devolupment fixed (pc SECL) methodology system to have been devolupment fixed (pc SECL) methodology system have low transfer fixed designacy of recorder for the development or aquisition of a system solution to a user need Glass filters that transmit binary signals over a telecommunications method. Poly-rely-rely-rely-rely-rely-rely-rely-re		system. system
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Failt positive A result that has been mistakenly identified as a problem when, in reality, the situation is nor Fault tolerance A system's level of resilience to samilestly react to hardware analyse software failure. A phase of a psycle (SSC) in photography and to hardware analyse software failure. A phase of a psycle-positive source for the development or acquisition of a system solution to a user need Glass fibers that transmit binary signals over a telecommunications restricts. A physical positive special cases. They do not relate energy or conduct electricity. They are from computed and planning embodies of the psychological positive special positive specia	False negative	In intrusion detection, an error that occurs when an attack is misdiagnosed as a normal activity.
Fault tolerance A patient level of resilience to seamlessly react to hardware and/or software failure.  A phase of a system development life cycle (SDLC) methodology but researches the feasibility study  Glass flows that transmits branzy signals over a reforecommunication.  Glass flows that transmits branzy signals over a reforecommunication.  The product of the p		
A phase of a system development life cycle (SDLC) methodology that researches the feasibility study  adequacy of resources for the development or acquisition of a system solution to a user need Class fibers that transmit binary signals over a telecommunication as compared to write development or acquisition of a system solution to a user need Class fibers that transmit binary signals over a telecommunication in the compared to write development or acquisition of a system shale low transmission as compared to write development or acquisition of a compared to write development or acquisition of the compared to write development or acquisition of the compared to write development or acquisition of a variety of the compared to write development or acquisition of the compared to write development or acquisition of the compared to write development or acquisition or acq	False positive	A result that has been mistakenly identified as a problem when, in reality, the situation is normal.
reasibility study  adequacy of resources for the development or acquisition of a system solution to a user need  Glass fibers that transmit binary signals over a telecommunication as compared to wisted e-pair calles. They do not radiate energy or conditic executive, They are provided in the property of the pair of the provided in the pair of the pa	Fault tolerance	A system's level of resilience to seamlessly react to hardware and/or software failure.
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Glass (fibers that transmit binary signals over a telecommunications network. chr)-chr)-catrony-Scope Notes: Astrong-Fiber optic systems have for transmission as compared to twisted-pair cable. They do not network on the property of the p	Foosibility study	
network.chr/>chr/>-chr/s-strongs-Sope Notes: /strong-Fiber-optic system have low transmission as companied to twisted-pair calles. They do not network pair conduct selectify. They are fiber-optic cable  fiber optic cable  An individual data element in a computer record. Picy-strongs-Sope Notes: /strongs-Examples: include employee name, customer address, account number, product unit and product quantity in stock.  Filed  An anned collection of related records.  A Table used by the operating system to keep track of where every file is located on the disk-chr/>-chr/>-chrong-Scope Notes: /strongs-Since a file is often fragmented and thus subdition many accoss within the disk, the information active in the Fall 1 used when loading or unit to the contents of the file.  File allocation table (FAT)  Specifies the length of the file record and the sequence and size of its fields. chr/>-chr/>-strong-Scope Notes: /strongs-Since a file is often fragmented and thus subdition to many accoss within the disk, the information active in the Fall 1 used when loading or unit to contents of the file.  Specifies the length of the file record and the sequence and size of its fields. chr/>-chr/>-strong-Scope Notes: -strongs-Since and size of its fields. chr/>-chr/>-strong-Scope Notes: -strongs-Since and size of its fields. chr/>-chr/>-strong-Scope Notes: -strongs-Since and size of its fields. chr/>-chr/>-strongs-Scope Notes: -strongs-Since and size of its fields. chr/>-chr/>-strongs-Scope Notes: -strongs-Since and size of its file score and the sequence and size of its file files. chr/>-chr/>-strongs-Scope Notes: -strongs-Since and size of its files. chr/>-chr/>-strongs-Scope Notes: -strongs-Since and size of the inconnocial chronical and size of its size of its files.  File Isonate in the size of the size of its size of its	reasibility study	adequacy of resources for the development of acquisition of a system solution to a user need
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Fiber optic cable  from corruption and lightning-induced interference, and they reduce the risk of wiretaps.  An individual data element in a computer record. Proxi-corting-Stoop Motes:  - strong-Examples: include employee name, customer address, account number, product unit and product quantity in stock.  File  A named collection of related records.  A table used by the operating system to keep track of where every file is located on the disk-oby-beh-s-resonage-Stoop Notes: - strong-Stone in the 1st often fragmented and this subdition many sectors within the disk, the information stored in the FAT is used when losating or a strong-Stone Notes: - strong-Stone in the FAT is used when losating or a the contents of the file.  File allocation table (FAT)  Specifies: the length of the file record and the sequence and size of its fileds: - story-beh-strong-stone in the FAT is used when losating or a high record and the sequence and size of its fileds: - story-beh-strong-stone in the FAT is used when losating or a high record and the sequence and size of its fileds: - story-beh-strong-stone in the FAT is used when losating or a high record and the sequence and size of its fileds: - story-beh-strong-stone in the FAT is used when losating or a high record and the sequence and size of its fileds: - story-beh-strong-stone and size of its fileds: - story-beh-strong-stone and size of its fileds: - story-beh-strong-stone - story-beh-strong-stone - story-beh-strong-story-beh-strong-stone - story-beh-strong-st		network.  <strong>Scope Notes: </strong> Fiber-optic systems have low transmission losses
An individual data element in a computer record.chr/>ct/ny/cs/rompScope Notes:		as compared to twisted-pair cables. They do not radiate energy or conduct electricity. They are free
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A named collection of related records.  A table used by the operating system to keep track of where every file is located on the disk-chy/s-chy/s-strong-Scope Notes: -/strong-Since a file is often fragmented and thus subditato many sectors within the disk, the information stored in the FAT is used when loading or under the contents of the file.  Specifies the length of the file record and the sequence and size of its fields-chy/-chy/-strong-Scope Notes: -/strong-Side and binary.  File layout aphanumeric, zoned decimal, packed and binary.  A high-capacity disk storage device or a computer that stores data centrally for network users manages access to those data.chy/-sch/-strong-Scope Notes: -/strong-Side servers can be declicated so that no process other than one executed while the net available; file servers can be non-dedicated so that process other than one executed while the net available; file servers can be non-dedicated so that standard user applications can run while the network is available;  File server  A protocol used to transfer files over a Transmission Control Protocol/Internet Protocol (TCP/Internet Protocol (TEP)  A protocol used to transfer files over a Transmission Control Protocol/Internet Protocol (TCP/Internet Protocol (TCP)  A router that is configured to control network access by companing the attributes of the incon origing packets to a set of rules.  Firewall  A fing set in a packet to indicate that this packet is the final data packet of the transmission.  Finger  A protocol and program that allows the remote identification of users logged into a system.  Firewall  A system or combination of systems that enforces a boundary between two or more network typically forming a barrier between a secure and an open environment such as the internet.  A system or combination of systems that enforces a boundary between two or more network typically forming a barrier between a secure and an open environment such as the internet includes any invalid foreign key usual match visuals of the governance	e: 11	
A table used by the operating system to keep track of where every file is located on the disk- <i>Arly-Pathy-Scrap-Scope</i> Notes: <i>Arly-Pathy-Scope</i> Notes: <i>Arly-Pathy-Pathy-Scope</i> Notes: <i>Arly-Pathy-Pa</i>		
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File allocation table (FAT)  Specifies the length of the file record and the sequence and size of its fields-for/-br/s-strom Notes: <fstrong-allo -br="" a="" access="" alphanumeric,="" and="" binary.="" centrally="" chr="" computer="" contained="" data="" decimal,="" device="" disk="" each="" fields,="" for="" high-capacity="" manages="" network="" of="" packed="" s-br="" s-strom="" s-strong="" specify="" storage="" stores="" that="" the="" those="" to="" type="" users="" will="" within="" zoned="">Scope Notes: <fstrong-file (a="" (insteame,="" (insteament,="" (internet,="" (tcp="" (tfp)="" (transport="" a="" access="" accuracy="" allows="" an="" and="" apolitic="" applications="" as="" attributes="" audit="" available;="" barrier="" be="" between="" boundary="" by="" can="" combination="" companing="" configured="" containing="" control="" data="" declicated="" designed="" determine="" enforces="" enverse="" environment="" etc.).="" executed="" file="" files="" final="" financial="" finger="" firewall="" flag="" forming="" identification="" in="" inconout="" indicate="" information.="" intern<="" international="" internet="" internet.="" into="" is="" lenework="" logged="" management="" matching="" more="" net="" network="" no="" non-dedicated="" of="" open="" or="" other="" over="" packet="" process="" program="" protocol="" records="" reference="" remote="" represents="" router="" row="" run="" secure="" server="" set="" so="" standard="" such="" system="" system.="" systems="" table)="" td="" that="" the="" this="" to="" transfer="" transmission="" transmission.="" tuple="" two="" typically="" unix,="" used="" user="" users="" value="" while=""><td></td><td>disk. disk.&lt;</td></fstrong-file></fstrong-allo>		disk. disk.<
Specifies the length of the file record and the sequence and size of its fields,-for/>-chr/>-chry-cstron Notes: -(strong-Alto will specify the type of data contained within each field; for example, alphanumeric, zone delicinal, packed that the strong of the strong delicinal packed of this packed of the strong of the strong delicinal packed of the strong of the str		into many sectors within the disk, the information stored in the FAT is used when loading or updating
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ramework requency unction point analysis	  <strong>Scope Notes: </strong> See Control framework and IT governance framework.
	A measure of the rate by which events occur over a certain period of time
ınction point analysis	A technique used to determine the size of a development task, based on the number of function
unction point analysis	points. <strong>Scope Notes: </strong> Function points are factors such as inputs, outputs,
	inquiries and logical internal sites.
	The period of time during which material business benefits are expected to arise from, and/or during
	which material expenditures (including investments, running and retirement costs) are expected to be incurred by, an investment program be incurred by, an investment program br/> br/> <strong>Scope Notes: </strong> COBIT 5
ull economic life cycle	perspective
reeware	Software available free of charge
ateway	A device (router, firewall) on a network that serves as an entrance to another network.
	A Control, other than an application control, that relates to the environment within which computer- based application systems are developed, maintained and operated, and that is therefore applicable
	to all applications. The objectives of general controls are to ensure the proper development and
	implementation of applications and the integrity of program and data files and of computer
	operations. Like application controls, general controls may be either manual or programmed.
	Examples of general controls include the development and implementation of an IS strategy and an IS
	security policy, the organization of IS staff to separate conflicting duties and planning for disaster
eneral computer control	prevention and recovery.
eneralized audit software (GAS)	Multipurpose audit software that can be used for general processes, such as record selection, matching, recalculation and reporting.
eneric process control	A control that applies to all processes of the enterprise.
	A data recovery strategy that takes a set of physically disparate disks and synchronously mirrors them
	over high-performance communication lines. Any write to a disk on one side will result in a write on
	the other side. The local write will not return until the acknowledgment of the remote write is
eographic disk mirroring	successful.
	A tool used to integrate, convert, handle, analyze and produce information regarding the surface of the earth. <strong>Scope Notes: </strong> GIS data exist as maps, tri-dimensional virtual
eographical information system (GIS)	models, lists and tables
Edgraphical information system (OIS)	Ensures that stakeholder needs, conditions and options are evaluated to determine balanced, agreed-
	on enterprise objectives to be achieved; setting direction through prioritization and decision making;
	and monitoring performance and compliance against agreed-on direction and
	objectives  <strong>Scope Notes: </strong> Conditions can include the cost of capital,
	foreign exchange rates, etc. Options can include shifting manufacturing to other locations, sub-
overnance	contracting portions of the enterprise to thirdparties, selecting a product mix from many available choices, etc.
Svernance	A description of a particular way of accomplishing something that is less prescriptive than a
uideline	procedure.
	A proven activity or process that has been successfully used by multiple enterprises and has been
ood practice	shown to produce reliable results
	Something (tangible or intangible) that assists in the realization of effective
overnance enabler	governance br/> <strong>Scope Notes: </strong> COBIT 5 perspective A framework is a basic conceptual structure used to solve or address complex issues. An enabler of
	governance. A set of concepts, assumptions and practices that define how something can be
	approached or understood, the relationships amongst the entities involved, the roles of those
	involved, and the boundaries (what is and is not included in the governance
overnance framework	system). system).
overnance transework	Integrated Framework
	A governance view that ensures that information and related technology support and enable the
	enterprise strategy and the achievement of enterprise objectives; this also includes the functional
	governance of IT, i.e., ensuring that IT capabilities are provided efficiently and
overnance of enterprise IT	effectively. <strong>Scope Notes: </strong> COBT 5 perspective
	For each COBIT process, the governance and management practices provide a complete set of high-
	level requirements for effective and practical governance and management of enterprise IT. They are statements of actions from governance bodies and management.   strong>Scope Notes:
overnance/ management practice	
	A business term used to group the three close-related disciplines responsible for the protection of
overnance, Risk Management and Compliance (GRC)	assets, and operations
acker	An individual who attempts to gain unauthorized access to a computer system.
andprint scanner	A biometric device that is used to authenticate a user through palm scans.
<u> </u>	To configure a computer or other network device to resist attacks.
arden	The physical components of a computer system.
<u> </u>	An algorithm that maps or translates one set of bits into another (generally smaller) so that a
arden	
arden	message yields the same result every time the algorithm is executed using the same message as
arden	input. <strong>Scope Notes: </strong> It is computationally infeasible for a message to be
arden ardware	input. input. input. input. 
arden	input. input.
arden ardware ash function	input. input. input. input. input. input. input. 
arden ardware	input. input. input. input. 
arden ardware ash function	input. input. input. input. input. input. input. 

	A method often employed by antispam software to filter spam using criteria established in a centralized rule database.cbr/>cbr/>cstrong>Scope Notes: c/strong>Every e-mail message is given a rank, based on its header and contents in its header and contents of the stable of the stabl
Heuristic filter	that surpasses the threshold will be flagged as spam and discarded, returned to its sender or put in a spam directory for further review by the intended recipient.
Hexadecimal	A numbering system that uses a base of 16 and uses 16 digits: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E and F. Programmers use hexadecimal numbers as a convenient way of representing binary numbers.
Hierarchical database	A database structured in a tree/root or parent/child relationship.  <strong>Each parent can have many children, but each child may have only one parent.</strong>
Honeypot	A specially configured server, also known as a decoy server, designed to attract and monitor intruders in a manner such that their actions do not affect production systems. strong>Scope Notes: Also known as "decoy server"
Hot site	A fully operational offsite data processing facility equipped with both hardware and system software to be used in the event of a disaster.
Hub	A common connection point for devices in a network, hubs are used to connect segments of a local area network (LAN).  <strong>Scope Notes: </strong> A hub contains multiple ports. When a packet arrives at one port, it is copied to the other ports so that all segments of the LAN can see all 
1100	Also known as required rate of return, above which an investment makes sense and below which it does not. does not. <strong>Scope Notes: </strong> Often based on the cost of capital, plus or minus
Hurdle rate	a risk premium, and often varied based on prevailing economic conditions Consist of a combination of manual and automated activities, all of which must operate for the
Hybrid application controls	control to be effective. strong>Scope Notes: Sometimes referred to as compute dependent application controls  An electronic pathway that may be displayed in the form of highlighted text, graphics or a button that
Hyperlink	connects one web page with another web page address.
Hypertext	A language that enables electronic documents that present information to be connected by links instead of being presented sequentially, as is the case with normal text.
Hypertext Markup Language (HTML)	A language designed for the creation of web pages with hypertext and other information to be displayed in a web browser; used to structure informationdenoting certain text sure as headings, paragraphs, listsand can be used to describe, to some degree, the appearance and semantics of a document.
Hypertext Transfer Protocol Secure (HTTPS)	A protocol for accessing a secure web server, whereby all data transferred are encrypted.
Hypertext Transfer Protocol (HTTP)	A communication protocol used to connect to servers on the World Wide Web. Its primary function is to establish a connection with a web server and transmit hypertext markup language (HTML), extensible markup language (XML) or other pages to client browsers.
Hashing Hijacking	Using a hash function (algorithm) to create hash valued or checksums that validate message integrity  An exploitation of a valid network session for unauthorized purposes
Horizontal defense-in depth	Controls are placed in various places in the path to access an asset (this is functionally equivalent to concentric ring model above).
Human firewall	A person prepared to act as a network layer of defense through education and awareness
hash	A cryptographic hash function takes an input of an arbitrary length and produces an output (also known as a message digest) that is a standard-sized binary string. The output is unique to the input in such a way that even a minor change to the input results in a completely different output. Modern cryptographic hash functions are also resistant to collisions (situations in which different inputs produce identical output); a collision, while possible, is statistically improbable. Cryptographic hash functions are developed so that input cannot be determined readily from the output.
Identity access management (IAM)	Encapsulates people, processes and products to identify and manage the data used in an information system to authenticate users and grant or deny access rights to data and system resources. The goal of IAM is to provide appropriate access to enterprise resources.
ldle standby	A fail-over process in which the primary node owns the resource group and the backup node runs idle, only supervising the primary node. strong>Scope Notes: In case of a primary node outage, the backup node takes over. The nodes are prioritized, which means that the surviving node with the highest priority will acquire the resource group. A higher priority node joining the cluster will thus cause a short service interruption.
	Pronounced I-triple-E; IEEE is an organization composed of engineers, scientists and students.  students.  strong>Scope Notes: Best known for developing standards for the
IEEE (Institute of Electrical and Electronics Engineers)  Image processing	computer and electronics industry  The process of electronically inputting source documents by taking an image of the document, thereby eliminating the need for key entry.
<u> </u>	A study to prioritize the criticality of information resources for the enterprise based on costs (or consequences) of adverse events. In an impact analysis, threats to assets are identified and potential business losses determined for different time periods. This assessment is used to justify the extent of safeguards that are required and recovery time frames. This analysis is the basis for establishing the
Impact analysis	recovery strategy.  A review of the possible consequences of a risk. A review of the possible consequences of a risk.
Impact assessment	Impact analysis.

Offers the capability to provision processing, storage, networks and other fundamental computing resources, enabling the customer to deploy and run arbitrary software, which can include operating systems (OSs) and applications.  The risk level or exposure without taking into account the actions that management has taken or might take (e.g., implementing controls)  Database structures that have a strict hierarchy (no multiple inheritance). Inheritance can initiate other objects irrespective of the class hierarchy, thus there is no strict hierarchy of objects.  The initialization procedure that causes an operating system to be loaded into storage at the		
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The initialization procedure that causes an operating system to be loaded into storage at the	Inheritance (objects)	
	Initial program load (IPL)	

	A major concern is the way that wired equivalent privacy (WEP) allocates the RC4 initialization
	vectors (IVs) used to create the keys that are used to drive a pseudo random number generator that
	is eventually used for encryption of the wireless data traffic. The IV in WEP is a 24-bit fielda small
	space that practically guarantees reuse, resulting in key reuse. The WEP standard also fails to specify
	how these IVs are assigned. Many wireless network cards reset these IVs to zero and then increment
	them by one for every use. If an attacker can capture two packets using the same IV (the same key i
	the key has not been changed), mechanisms can be used to determine portions of the original
	packets. This and other weaknesses result in key reuse, resulting in susceptibility to attacks to
	determine the keys used. These attacks require a large number of packets (5-6 million) to actually
	fully derive the WEP key, but on a large, busy network this can occur in a short time, perhaps in as
	quickly as 10 minutes (although, even some of the largest corporate networks will likely require muc
	more time than this to gather enough packets). In WEP-protected wireless networks, many times
	multiple, or all, stations use the same shared key. This increases the chances of IV collisions greatly.
	The result of this is that the network becomes insecure if the WEP keys are not changed often. This
nitialization vector (IV) collisions	furthers the need for a WEP key management protocol.
nput control	Techniques and procedures used to verify, validate and edit data to ensure that only correct data ar entered into the computer.
	An online mechanism or a form of real-time communication between two or more people based on
	typed text and multimedia data  <strong>Scope Notes: </strong> Text is conveyed via
	computers or another electronic device (e.g., cellular phone or handheld device) connected over a
nstant messaging (IM)	network, such as the Internet.
	A public and-to-and digital talecommunications naturally with signaling, quitaking and target and
	A public end-to-end digital telecommunications network with signaling, switching and transport capabilities supporting a wide range of service accessed by standardized interfaces with integrated
	customer control.  customer control.  
ntegrated services digital network (ISDN)	digital voice, video and data over 64-Kbps lines.
The Branch and American Michael Michael March and American American Michael Mi	A testing methodology in which test data are processed in production
	systems. systems. systems. systems.
	entities such as departments, customers or products. Output reports are verified to confirm the
ntegrated test facilities (ITF)	correctness of the processing.
	The guarding against improper information modification or destruction, and includes ensuring
ntegrity	information non-repudiation and authenticity
	A testing technique that is used to evaluate output from one application while the information is ser
nterface testing nternal control environment	as input to another application.  The relevant environment on which the controls have effect.
miterial control environment	The relevant chanoninent on which the controls have effect.
	A process designed by, or under the supervision of, the registrant's principal executive and principal
	financial officers, or persons performing similar functions, and effected by the registrant's board of
	directors, management and other personnel to provide reasonable assurance regarding the reliabilit
	directors, management and other personner to provide reasonable assurance regarding the reliability
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	of financial reporting and the preparation of financial statements for external purposes in accordance
	of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principals. Includes those policies and procedures that: <li></li>
	of financial reporting and the preparation of financial statements for external purposes in accordange with generally accepted accounting principals. Includes those policies and procedures that: <li>Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the</li>
	of financial reporting and the preparation of financial statements for external purposes in accordant with generally accepted accounting principals. Includes those policies and procedures that: <li>Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the registrant. </li> <li>Ii&gt;&gt;Involve reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in</li>
	of financial reporting and the preparation of financial statements for external purposes in accordange with generally accepted accounting principals. Includes those policies and procedures that: <pre></pre> Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the registrant. //i> that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the
	of financial reporting and the preparation of financial statements for external purposes in accordange with generally accepted accounting principals. Includes those policies and procedures that: <pre></pre> Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the registrant. //i> that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the
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	A set of protocols that allow systems to communicate information about the state of services on other systems. systems.scbr/> <strong>Scope Notes: </strong> For example, ICMP is used in determining whether systems are up, maximum packet sizes on links, whether a destination host/network/port is
Internet Control Message Protocol (ICMP)	available. Hackers typically use (abuse) ICMP to determine information about the remote site.
Internet Fermanian Task Force (IFTF)	An organization with international affiliates as network industry representatives that sets Internet standards. This includes all network industry developers and researchers concerned with the
Internet Engineering Task Force (IETF)	evolution and planned growth of the Internet.
	Developed by the object management group (OMG) to implement Common Object Request Broker Architecture (CORBA) solutions over the World Wide Web.  <strong>Scope Notes:</strong>
	CORBA enables modules of network-based programs to communicate with one another.
	These modules or program parts, such as tables, arrays, and more complex program subelements, are referred to as objects. Use of IIOP in this process enables browsers and servers to exchange both
	simple and complex objects. This differs significantly from HyperText Transfer Protocol (HTTP), which
Internet Inter-ORB Protocol (IIOP) Internet protocol (IP)	only supports the transmission of text.  Specifies the format of packets and the addressing scheme.
	An attack using packets with the spoofed source Internet packet (IP)
	addresses.   authentication based on IP addresses. This technique also may enable an unauthorized user to gain
Internet Protocol (IP) packet spoofing	root access on the target system.
Internet service provider (ISP)	A third party that provides individuals and enterprises with access to the Internet and a variety of other Internet-related services.
	The time that the company can wait from the point of failure to the restoration of the minimum and
Interruption window	critical services or applications. After this time, the progressive losses caused by the interruption are excessive for the enterprise.
	A private network that uses the infrastructure and standards of the Internet and World Wide Web,
Intranet Intrusion	but is isolated from the public Internet by firewall barriers.  Any event during which unauthorized access occurs.
	The process of monitoring the events occurring in a computer system or network to detect signs of
Intrusion detection	unauthorized access or attack.  Inspects network and host security activity to identify suspicious patterns that may indicate a network
Intrusion detection system (IDS)	or system attack.
Intrusive monitoring	In vulnerability analysis, gaining information by performing checks that affect the normal operation of the system, and even by crashing the system.
ID C (IDC. )	A set of protocols developed by the Internet Engineering Task Force (IETF) to support the secure
IP Security (IPSec)	exchange of packets.
Irregularity	Intentional violation of an established management policy or regulatory requirement. It may consist of deliberate misstatements or omission of information concerning the area under audit or the enterprise as a whole; gross negligence or unintentional illegal acts.
egalarty	Code of practice for quality management from the International Organization for Standardization
	(ISO). ISO 9001:2000 specifies requirements for a quality management system for any enterprise that needs to demonstrate its ability to consistently provide products or services that meet particular
ISO 9001:2000	quality targets.
	This standard defines information's confidentiality, integrity and availability controls in a comprehensive information security management system. Scope Notes: Originally released as part of the British Standard for Information Security in 1999 and then as the Code of Practice for Information Security Management in October 2000, it was elevated by the International Organization for Standardization (ISO) to an international code of practice for
ISO/IEC 17799	information security management. The latest version is ISO/IEC 17799:2005.
	Information Security ManagementSpecification with Guidance for Use; the replacement for BS7799- 2. It is intended to provide the foundation for third-party audit and is harmonized with other
ISO/IEC 27001	management standards, such as ISO/IEC 9001 and 14001.
	Description of the fundamental underlying design of the IT components of the business, the
IT architecture	relationships among them, and the manner in which they support the enterprise's objectives.
	The responsibility of executives and the board of directors; consists of the leadership, organizational structures and processes that ensure that the enterprise's IT sustains and extends the enterprise's
IT governance	strategies and objectives.
	A model that integrates a set of guidelines, policies and methods that represent the organizational approach to IT governance. br/> strong>Scope Notes: Per COBIT, IT governance is the responsibility of the board of directors and executive management. It is an integral part of
	institutional governance and consists of the leadership and organizational structures and processes
IT governance framework	that ensure that the enterprise's IT sustains and extends the enterprise's strategy and objectives.
	Founded in 1998 by the Information Systems Audit and Control Association (now known as ISACA).  ITGI strives to assist enterprise leadership in ensuring long-term, sustainable enterprise success and
IT Governance Institute® (ITGI®)	to increase stakeholder value by expanding awareness.  Any event that is not part of the ordinary operation of a service that causes, or may cause, an
IT incident	interruption to, or a reduction in, the quality of that service.
	The set of hardware, software and facilities that integrates an enterprise's IT
	assets. strong>Scope Notes: Specifically, the equipment (including servers,
IT infrastructure	routers, switches and cabling), software, services and products used in storing, processing, transmitting and displaying all forms of information for the enterprise's users
······································	A tool for setting expectations for an enterprise at each level and continuous monitoring of the
IT investment dashboard	performance against set targets for expenditures on, and returns from, IT-enabled investment projects in terms of business values.
	The business risk associated with the use, ownership, operation, involvement, influence and adoption
IT risk	of IT within an enterprise.

	1. An instance of IT risk. >br/>2. A combination of control, value and threat conditions that
IT risk issue	impose a noteworthy level of IT risk.
IT risk profile	A description of the overall (identified) IT risk to which the enterprise is exposed.
	A repository of the key attributes of potential and known IT risk issues. Attributes may include name, description, owner, expected/actual frequency, potential/actual magnitude, potential/actual business
IT risk register	impact, disposition.
IT risk scenario	The description of an IT-related event that can lead to a business impact.
	An executive-management-level committee that assists in the delivery of the IT strategy, oversees
IT steering committee	day-to-day management of IT service delivery and IT projects, and focuses on implementation aspects.
The state of the s	
	A long-term plan (i.e., three- to five-year horizon) in which business and IT management
IT strategic plan	cooperatively describe how IT resources will contribute to the enterprise's strategic objectives (goals).
	A committee at the level of the board of directors to ensure that the board is involved in major IT
	matters and decisions.  <strong>Scope Notes:</strong> The committee is primarily
	accountable for managing the portfolios of IT-enabled investments, IT services and other IT resources.
IT strategy committee	The committee is the owner of the portfolio.  A medium-term plan (i.e., six- to 18-month horizon) that translates the IT strategic plan direction into
	required initiatives, resource requirements and ways in which resources and benefits will be
IT tactical plan	monitored and managed.
IT user	A person who uses IT to support or achieve a business objective.
ITIL (IT Infrastructure Library)	The UK Office of Government Commerce (OGC) IT Infrastructure Library. A set of guides on the management and provision of operational IT services.
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IT-related incident	An IT-related event that causes an operational, developmental and/or strategic business impact.
	An asset that, like other important business assets, is essential to an enterprise's business. It can exist
	in many forms. It can be printed or written on paper, stored electronically, transmitted by post or by using electronic means, shown on films, or spoken in conversation. <pre>conversation.</pre>
Information	</td
	The process work products/artifacts considered necessary to support operation of the process br/> strong>Scope Notes: Inputs and outputs enable key decisions, provide a
	record and audit trail of process activities, and enable follow-up in the event of an incident. They are
	defined at the key management practice level, may include some work products used only within the
	process and are often essential
	inputs to other processes. The illustrative COBIT 5 inputs and outputs should not be regarded as an exhaustive list since additional information flows could be defined depending on a particular
Inputs and outputs	enterprise's environment and process framework. could be defined depending on a particular enterprise's environment and process framework. could be defined depending on a particular enterprise's environment and process framework. could be defined depending on a particular enterprise of the
·	The collection of investments being considered and/or being made  strong>Scope Notes:
Investment portfolio	COBIT 5 perspective
IT application	Electronic functionality that constitutes parts of business processes undertaken by, or with the assistance of, IT str/> strong>Cope Notes: COBIT 5 perspective
т аррисатоп	A statement describing a desired outcome of enterprise IT in support of enterprise goals. An outcome
	can be an artifact, a significant change of a state or a significant capability
IT goal	improvement. strong>Scope Notes: COBIT 5 perspective  The day-to-day provision to customers of IT infrastructure and applications and support for their
	use—e.g., service desk, equipment supply and moves, and security
IT service	authorizations strong>Scope Notes: COBIT 5 perspective
	A family of specifications developed by the Institute of Electrical and Electronics Engineers (IEEE) for wireless local area network (WLAN) technology. 802.11 specifies an over-the-air interface between a
IEEE 802.11	wireless client and a base station or between two wireless clients.
	A process that allows one to obtain a bit-for-bit copy of data to avoid damage of original data or
	information when multiple analyses may be performed /strong>Scope Notes: The imaging process is made to obtain residual data, such as deleted files, fragments of
	deleted files and other information present, from the disk for analysis. This is possible because
Imaging	imaging duplicates the disk surface, sector by sector.
Impact	Magnitude of loss resulting from a threat exploiting a vulnerability  A condition that causes a weakness or diminished ability to execute audit
	objectives. br/> <strong>Scope Notes: </strong> Impairment to organisational independence
	and individual objectivity may include personal conflict of interest; scope limitations; restrictions on
	access to records, personnel, equipment, or facilities; and resource limitations (such as funding or
Impairment	staffing).  The operational component of incident management. The very strong > Scope Notes:  The
	plan includes documented procedures and guidelines for defining the criticality of incidents, reporting
Incident response plan	and escalation process, and recovery procedures.
	A deficiency is inconsequential if a reasonable person would conclude, after considering the
	possibility of further undetected deficiencies, that the deficiencies, either individually or when aggregated with other deficiencies, would clearly be trivial to the subject matter. If a reasonable
	person could not reach such a conclusion regarding a particular deficiency, that deficiency is more
Inconsequential deficiency	than inconsequential.
	The state of mind that permits the expression of a conclusion without being affected by influences
Independence of mind	that compromise professional judgement, thereby allowing an individual to act with integrity and exercise objectivity and professional skepticism.
паерепиенсе от пини	A process to convert information extracted to a format that can be understood by
Ingestion	investigators. s/r/>strong>Scope Notes: See also Normalization.
Ingress	Network communications coming in
Injection	A general term for attack types which consist of injecting code that is then interpreted/executed by the application. (OWASP)
injection	are appropriately

Intangible asset	An asset that is not physical in nature.  /br/> <strong>Scope Notes: </strong> Examples include: intellectual property (patents, trademarks, copyrights, processes), goodwill, and brand recognition
Intellectual property	Intangible assets that belong to an enterprise for its exclusive use
International Standards Organization (ISO)	The world's largest developer of voluntary International Standards
Internet Assigned Numbers Authority (IANA)	Responsible for the global coordination of the DNS root, IP addressing, and other Internet protocol resources
	IPX is layer 3 of the open systems interconnect (OSI) model network protocol; SPX is layer 4 transport protocol. The SPX layer sits on top of the IPX layer and provides connection-oriented services
Internetwork Packet Exchange/Sequenced Packet Exchange (IPX/SPX)	between two nodes on the network.  Used to obtain prior indicators or relationships, including telephone numbers, IP addresses and
Interrogation	names of individuals, from extracted data
Intruder	Individual or group gaining access to the network and it's resources without permission
Intrusion prevention	A preemptive approach to network security used to identify potential threats and respond to them to stop, or at least limit, damage or disruption  A system designed to not only detect attacks, but also to prevent the intended victim hosts from
Intrusion prevention system (IPS)	being affected by the attacks
Investigation	The collection and analysis of evidence with the goal to identifying the perpetrator of an attack or unauthorized use or access
IP address	A unique binary number used to identify devices on a TCP/IP network
	Protocol used to provide connectionless integrity and data origin authentication for IP datagrams (hereafter referred to as just "integrity") and to provide protection against replays. (RFC 4302). <a href="https://creativecommons.org/linearing-scope">https://creativecommons.org/linearing-scope</a> Notes: <a href="https://strong-at-at-at-at-at-at-at-at-at-at-at-at-at-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;IP Authentication Header (AH)&lt;/td&gt;&lt;td&gt;protection, AH uses a sequence number field within the IP authentication header.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Violation of an established management policy or regulatory requirement. It may consist of deliberate misstatements or omission of information concerning the area under audit or the&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Irregularity&lt;/td&gt;&lt;td&gt;enterprise as a whole, gross negligence or unintentional illegal acts.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Job control language (JCL)&lt;/td&gt;&lt;td&gt;Used to control run routines in connection with performing tasks on a computer.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Journal entry&lt;/td&gt;&lt;td&gt;A debit or credit to a general ledger account, in Oracle. See also Manual Journal Entry.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Judgment sampling&lt;/td&gt;&lt;td&gt;Any sample that is selected subjectively or in such a manner that the sample selection process is not random or the sampling results are not evaluated mathematically.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;sauginent sampining&lt;/td&gt;&lt;td&gt;A measure that tells management, after the fact, whether an IT process has achieved its business&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Key goal indicator (KGI)&lt;/td&gt;&lt;td&gt;requirements; usually expressed in terms of information criteria.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Key management practice&lt;/td&gt;&lt;td&gt;Management practices that are required to successfully execute business processes.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Key performance indicator (KPI)&lt;/td&gt;&lt;td&gt;A measure that determines how well the process is performing in enabling the goal to be reached.&lt;a href=" https:="" sctrong="">Scope Notes:</a> (strong>A lead indicator of whether a goal will likely be reached, and a good indicator of capabilities, practices and skills. It measures an activity goal, which is an action that the process owner must take to achieve effective process performance.
Key risk indicator (KRI)	A subset of risk indicators that are highly relevant and possess a high probability of predicting or indicating important risk. br/> <strong>Scope Notes: </strong> See also Risk Indicator.
Knowledge portal	Refers to the repository of a core of information and knowledge for the extended enterprise. <pre>enterprise.  <pre>enterprise.  <pre>enterprise</pre> <pre>enterprise</pre> <pre>enterprise</pre> <pre>extended</pre> <pre>enterprise</pre> <pre>extended</pre> <pre>enterprise</pre> <pre>to resolve</pre> <pre>any issues</pre></pre></pre>
	Used for execution of privileged instructions for the internal operation of the system. In kernel mode, there are no protections from errors or malicious activity and all parts of the system and memory are
Kernel mode Key length	accessible.  The size of the encryption key measured in bits
Keylogger	Software used to record all keystrokes on a computer
,	The time it takes a system and network delay to respond. Notes:More specifically, system latency is the time a system takes to retrieve data. Network
Latency	latency is the time it takes for a packet to travel from source to the final destination.
Leadership	The ability and process to translate vision into desired behaviors that are followed at all levels of the extended enterprise.
	A communication line permanently assigned to connect two points, as opposed to a dial-up line that is only available and open when a connection is made by dialing the target machine or network. Also
Leased line	known as a dedicated line.
Level of assurance	Refers to the degree to which the subject matter has been examined or reviewed.
Librarian	The individual responsible for the safeguard and maintenance of all program and data files.
Licensing agreement	A contract that establishes the terms and conditions under which a piece of software is being licensed (i.e., made legally available for use) from the software developer (owner) to the user.
Life cycle	A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program).
Limit check	Tests specified amount fields against stipulated high or low limits of acceptability.   <trong>Scope Notes: When both high and low values are used, the test may be called a range check.</trong>
Link editor (linkage editor)	A utility program that combines several separately compiled modules into one, resolving internal references between them.
	Any notation for representing a value within programming language source code, e.g., a string literal;
Literals	a chunk of input data that is represented "as is" in compressed data.

	Communication network that serves several users within a specified geographic
	area.  <strong>Scope Notes: </strong> A personal computer LAN functions as a distributed
	processing system in which each computer in the network does its own processing and manages
	some of its data. Shared data are stored in a file server that acts as a remote disk drive for all users in
Local area network (LAN)	the network.
	To record details of information or events in an organized record-keeping system, usually sequenced
Log	in the order in which they occurred
	The policies, procedures, organizational structure and electronic access controls designed to restrict
Logical access controls	access to computer software and data files
Logoff	The act of disconnecting from the computer.
Logon	The act of connecting to the computer, which typically requires entry of a user ID and password into a computer terminal.
Logon	·
Logs/log file	Files created specifically to record various actions occurring on the system to be monitored, such as failed login attempts, full disk drives and e-mail delivery failures.
Logsy log file	Any event during which a threat event results in loss. Scope Notes: From
Loss event	Jones, J.; "FAIR Taxonomy," Risk Management Insight, USA, 2008
2005 EVERT	Data link level devices that can divide and interconnect network segments and help to reduce
Layer 2 switches	collision domains in Ethernet-based networks
	Switches with operating capabilities at layer 3 and layer 4 of the open systems interconnect (OSI)
	model. These switches look at the incoming packet's networking protocol, e.g., IP, and then compare
	the destination IP address to the list of addresses in their tables, to actively calculate the best way to
Layer 3 and 4 switches	send a packet to its destination.
	·
	Used for load balancing among groups of servers. <pre>cbr/&gt;<strong>Scope Notes: </strong>Also</pre>
Layer 4-7 switches	known as content-switches, content services switches, web-switches or application-switches.
Legacy system	Outdated computer systems
Likelihood	The probability of something happening
	Ability to interact with computer resources granted using identification, authentication and
Logical access	authorization.
	Metrics for achievement of goals-An indicator relating to the outcome or result of an
	enabler. br> <strong>Scope Notes: </strong> This indicator is only available after the facts or
	events.
Lag indicator	
	Metrics for application of good practice-An indicator relating to the functioning of an
	enabler. orpe Notes:  This indicator will provide an indication on possible
	outcome of the enabler.
Lead indicator	
	The person in whom the organization has invested the authority and accountability for making risk-
	based decisions and who owns the loss associated with a realized risk
	scenario. br> <strong>Scope Notes: </strong> The risk owner may not be responsible for the
	implementation of risk treatment.
Risk owner	
Machine language	The logical language that a computer understands.
Magnetic card reader	Reads cards with a magnetic surface on which data can be stored and retrieved.
	Used to electronically input, read and interpret information directly from a source
AAkiilh(AAICD)	document. docume
Magnetic ink character recognition (MICR)	specially-coded magnetic ink
Magnitudo	A manager of the notable country of loss or the notable gain from scaling quarte (scanners
Magnitude	A measure of the potential severity of loss or the potential gain from realized events/scenarios
Mail relay corner	An electronic mail (e-mail) server that relays messages so that neither the sender nor the recipient is
Mail relay server	a local user.
	Short for malicious software. Designed to infiltrate, damage or obtain information from a computer
	system without the owner's consent. system without the owner's consent.
	commonly taken to include computer viruses, worms, Trojan horses, spyware and adware. Spyware is generally used for marketing purposes and, as such, is not malicious, although it is generally
	generally used for marketing purposes and, as such, is not malicious, although it is generally unwanted. Spyware can, however, be used to gather information for identity theft or other clearly
Malware	illicit purposes.
Malware	
Management information system (MIS)	An organized assembly of resources and procedures required to collect, process and distribute data for use in decision making.
Management information system (MIS)	A means of restricting access to data based on varying degrees of security requirements for
	information contained in the objects and the corresponding security clearance of users or programs
Mandatory access control (MAC)	acting on their behalf.
manager, access control (mino)	deang on their bendin.
	An attack strategy in which the attacker intercepts the communication stream between two parts of
	the victim system and then replaces the traffic between the two components with the intruder's own,
Man-in-the-middle attack	eventually assuming control of the communication.
I the initial attack	A journal entry entered at a computer terminal.sbr/> <strong>Scope Notes: </strong> Manual
Manual journal ontry	iournal entries can include regular, statistical, inter-company and torging currency entries. See also
Manual journal entry	journal entries can include regular, statistical, inter-company and foreign currency entries. See also
Manual journal entry	Journal Entry.
Manual journal entry	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and
Manual journal entry	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and
	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Mapping. Setrong>Scope Notes: Mapping is a preliminary step for developing an
Manual journal entry  Mapping	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Mapping. Strong>Scope Notes: Mapping is a preliminary step for developing an applications link.
Mapping	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Str/> <strong>Scope Notes: </strong> Mapping is a preliminary step for developing an applications link.  A computerized technique of blocking out the display of sensitive information, such as passwords, on
	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Mapping. Strong>Scope Notes: Mapping is a preliminary step for developing an applications link.
Mapping  Masking	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Set/> Set/> Set/> <strong>Scope Notes: </strong> Mapping is a preliminary step for developing an applications link.  A computerized technique of blocking out the display of sensitive information, such as passwords, on a computer terminal or report.
Mapping	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Mapping. Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/ Set/ Set/ Set/ Set/ Set/ Set/ Set/
Mapping  Masking	Journal Entry.  Diagramming data that are to be exchanged electronically, including how they are to be used and what business management systems need them. See also Application Tracing and Mapping. Mapping. Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/> Set/ Set/ Set/ Set/ Set/ Set/ Set/ Set/

An auditing concept regarding the importance of an item of information with regard to its impact or effect on the functioning of the entity being audited. An expression of the relative significance or importance of a particular matter in the context of the enterprise as a whole.  In business, indicates the degree of reliability or dependency that the business can place on a process
·
and the standard and a section of the state of
achieving the desired goals or objectives.  
Maximum time that an enterprise can support processing in alternate mode.
A standard used to evaluate and communicate performance against expected
results.  <strong>Scope Notes: </strong> Measures are normally quantitative in nature
capturing numbers, dollars, percentages, etc., but can also address qualitative information such as
customer satisfaction. Reporting and monitoring measures help an enterprise gauge progress toward
effective implementation of strategy.
Applied to the hardware at the factory and cannot be modified, MAC is a unique, 48-bit, hard-coded address of a physical layer device, such as an Ethernet local area network (LAN) or a wireless network card.
The deterioration of the media on which data are digitally stored due to exposure to oxygen and
moisture.   <trong>Scope Notes: Tapes deteriorating in a warm, humid environment are an example of media oxidation. Proper environmental controls should prevent, or</trong>
significantly slow, this process.
The act of copying raw data from one place to another with little or no formatting for
readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability. readability.
main memory to a display screen or a printer. Dumps are useful for diagnosing bugs. After a program
fails, one can study the dump and analyze the contents of memory at the time of the failure. A
memory dump will not help unless each person knows what to look for because dumps are usually
output in a difficult-to-read form (binary, octal or hexadecimal).
An American National Standards Institute (ANSI) standard checksum that is computed using Data Encryption Standard (DES).
Encryption Standard (DES).
A telecommunications methodology that controls traffic in which a complete message is sent to a concentration point and stored until the communications path is established.
A quantifiable entity that allows the measurement of the achievement of a process
goal strong>Scope Notes: Metrics should be SMARTspecific, measurable,
actionable, relevant and timely. Complete metric guidance defines the unit used, measurement
frequency, ideal target value (if appropriate) and also the procedure to carry out the measurement
and the procedure for the interpretation of the assessment.
A high-capacity line-of-sight transmission of data signals through the atmosphere which often requires relay stations.
Another term for an application programmer interface (API). It refers to the interfaces that allow programmers to access lower- or higher-level services by providing an intermediary layer that
includes function calls to the services.
A terminal element that marks the completion of a work package or phase.    
Notes: Typically marked by a high-level event such as project completion, receipt,
endorsement or signing of a previously-defined deliverable or a high-level review meeting at which
the appropriate level of project completion is determined and agreed to. A milestone is associated
with a decision that outlines the future of a project and, for an outsourced project, may have a
payment to the contractor associated with it.
An alternate site that contains the same information as the original. *strong>Scope Notes:
Mirrored sites are set up for backup and disaster recovery and to balance the traffic load for numerous download requests. Such download mirrors are often placed in different locations
throughout the Internet.
An application that is vital to the operation of the enterprise. The term is very popular for describing
the applications required to run the day-to-day business.
Detection on the basis of whether the system activity matches that defined as "bad".
Extends the concept of wireless computing to devices that enable new kinds of applications and
expand an enterprise network to reach places in circumstances that could never have been done by
other means. strong>Scope Notes: Mobile computing is comprised of personal
digital assistants (PDAs), cellular phones, laptops and other technologies of this kind.
The use of a mobile/temporary facility to serve as a business resumption location. The facility can
usually be delivered to any site and can house information technology and staff.
Connects a terminal or computer to a communications network via a telephone line. Modems turn
digital pulses from the computer into frequencies within the audio range of the telephone system.  When acting in the receiver capacity, a modern decodes incoming frequencies.
The process of converting a digital computer signal into an analog telecommunications signal.
A sampling technique that estimates the amount of overstatement in an account balance.
Rules outlining or delineating the way in which information about the use of computers, networks,
applications and information is captured and interpreted.
A device used for combining several lower-speed channels into a higher-speed channel.
A fail-over process, which is basically a two-way idle standby: two servers are configured so that both
can take over the other node's resource group. Both must have enough central processing unit (CPU)

Management	Plans, builds, runs and monitors activities in alignment with the direction set by the governance body to achieve the enterprise objectives.
Model	A way to describe a given set of components and how those components relate to each other in order to describe the main workings of an object, system, or concept /strong>Cobit 5 perspective
MAC header	Represents the hardware address of an network interface controller (NIC) inside a data packet
The field of	nepresents the installate states of an inclinion interface controller (intro) installate states passed
Mainframe	A large high-speed computer, especially one supporting numerous workstations or peripherals  An accidental or intentional untrue statement that affects the results of an audit to a measurable
Material misstatement	extent
	A deficiency or a combination of deficiencies in internal control, such that there is a reasonable possibility that a material misstatement will not be prevented or detected on a timely basis.
	Weakness in control is considered 'material' if the absence of the control results in failure to provide reasonable assurance that the control objective will be met. A weakness classified as material implies that:
	<ul> <li>Controls are not in place and/or controls are not in use and/or controls are inadequate</li> <li>Escalation is warranted</li> </ul>
Material weakness	There is an inverse relationship between materiality and the level of audit risk acceptable to the IS audit or assurance professional, i.e., the higher the materiality level, the lower the acceptability of the audit risk, and vice versa.
Media access control (MAC) address	A unique identifier assigned to network interfaces for communications on the physical network segment
Message digest	A smaller extrapolated version of the original message created using a message digest algorithm
	Message digest algorithms are SHA1, MD2, MD4 and MD5. These algorithms are one-way functions
Message digest algorithm	unlike private and public key encryption algorithms. /br/> <strong>Scope Notes: </strong> All digest algorithms take a message of arbitrary length and produce a 128-bit message digest.
Metropolitan area network (MAN)	A data network intended to serve an area the size of a large city
	Using this method, an attacker fragments the IP packet into smaller ones and pushes it through the firewall, in the hope that only the first of the sequence of fragmented packets would be examined
Miniature fragment attack	and the others would pass without review.
	A small, handheld computing devices, typically having a display screen with touch input and/or a
Mobile device	miniature keyboard and weighing less than two pounds  A combination of more than one authentication method, such as token and password (or personal
Multifactor authentication	identification number [PIN] or token and biometric device).
	A datastructure within which all nodes other than "leaf nodes" (nodes to which no subnodes are
	attached) include the hash values of all subnodes. Use of a cryptographically-strong hashing function (i.e. a message digest) can allow rapid (logorithmic) verification of the integrity of all nodes on the
Merkle Tree	tree.
	A cryptographic hash function takes an input of an arbitrary length and produces an output (also
	known as a message digest) that is a standard-sized binary string. The output is unique to the input in
	such a way that even a minor change to the input results in a completely different output. Modern
	cryptographic hash functions are also resistant to collisions (situations in which different inputs produce identical output); a collision, while possible, is statistically improbable. Cryptographic hash
message digest	functions are developed so that input cannot be determined readily from the output. See hash
	Calculated by using an after-tax discount rate of an investment and a series of expected incremental cash outflows (the initial investment and operational costs) and cash inflows (cost savings or
	revenues) that occur at regular periods during the life cycle of the
	investment. cyr/> <strong>Scope Notes: </strong> To arrive at a fair NPV calculation, cash inflows accrued by the business up to about five years after project deployment also should be taken
Net present value (NPV)	into account.
Net return	The revenue that a project or business makes after tax and other deductions; often also classified as net profit.
NetTeuni	
	A simple UNIX utility, which reads and writes data across network connections using Transmission
	Control Protocol (TCP) or User Datagram Protocol (UDP). It is designed to be a reliable back-end tool that can be used directly or is easily driven by other programs and scripts. At the same time, it is a
	feature-rich network debugging and exploration tool, because it can create almost any kind of
	connection needed and has several interesting built-in capabilities. Netcat is now part of the Red Hat Power Tools collection and comes standard on SuSE Linux, Debian Linux, NetBSD and OpenBSD
Netcat	distributions.
	The contents and security of information or objects (software and data) on the network are now of prime importance compared with traditional computer processing that emphasizes the location of
	hardware and its related software and data. strong>Scope Notes: An example of
Net-centric technologies	net-centric technologies is the Internet, where the network is its primary concern.
Netware	A popular local area network (LAN) operating system (OS) developed by the Novell Corp.
Network	A system of interconnected computers and the communication equipment used to connect them.
	Responsible for planning, implementing and maintaining the telecommunications infrastructure; also may be responsible for voice networks. https://www.scope.networks.com/scope.net
	enterprises, the network administrator may also maintain a local area network (LAN) and assist end
Network administrator	users.

Network attached storage (NAS)	Utilizes dedicated storage devices that centralize storage of data. br/> <strong>Scope Notes: </strong> NA storage devices generally do not provide traditional file/print or application services.
Network hop	An attack strategy in which the attacker successively hacks into a series of connected systems, obscuring his/her identify from the victim of the attack.
verwork nop	A communication card that when inserted into a computer, allows it to communicate with other
1/416	computers on a network.   <
Network interface card (NIC)  Node	particular type of network or protocol.  Point at which terminals are given access to a network.
. out	Disturbances in data transmissions, such as static, that cause messages to be misinterpreted by the
Noise	receiver.
	A legal contract between at least two parties that outlines confidential materials that the parties wish to share with one another for certain purposes, but wish to restrict from generalized use; a contract
	through which the parties agree not to disclose information covered by the
	agreement.  <strong>Scope Notes: </strong> Also called a confidential disclosure agreement
	(CDA), confidentiality agreement or secrecy agreement. An NDA creates a confidential relationship
	between the parties to protect any type of trade secret. As such, an NDA can protect non-public business information. In the case of certain governmental entities, the confidentiality of information
	other than trade secrets may be subject to applicable statutory requirements, and in some cases may
	be required to be revealed to an outside party requesting the information. Generally, the
	governmental entity will include a provision in the contract to allow the seller to review a request for information that the seller identifies as confidential and the seller may appeal such a decision
	requiring disclosure. NDAs are commonly signed when two companies or individuals are considering
	doing business together and need to understand the processes used in one another's businesses
	solely for the purpose of evaluating the potential business relationship. NDAs can be "mutual,"
	meaning that both parties are restricted in their use of the materials provided, or they can only restrict a single party. It is also possible for an employee to sign an NDA or NDA-like agreement with a
	company at the time of hiring; in fact, some employment agreements will include a clause restricting
Nondisclosure agreement (NDA)	"confidential information" in general.
Nonintrusive monitoring	The use of transported probes or traces to assemble information, track traffic and identify vulnerabilities.
Nonrepudiable transaction	Transaction that cannot be denied after the fact.
	The assurance that a party cannot later deny originating data; provision of proof of the integrity and
	origin of the data and that can be verified by a third party. strong>Scope Notes:
Nonrepudiation	A digital signature can provide non-repudiation.
Normalization	The elimination of redundant data.
Numeric check	An edit check designed to ensure that the data element in a particular field is numeric.
	Develops tests, test methods, reference data, proof-of concept implementations, and technical
	analyses to advance the development and productive use of information technology.   >cstrong>Scope Notes: NIST is a US government entity that creates
National Institute for Standards and Technology (NIST)	mandatory standards that are followed by federal agencies and those doing business with them.
<u> </u>	A methodology of modifying network address information in IP datagram packet headers while they
Network address translation (NAT)	are in transit across a traffic routing device for the purpose of remapping one IP address space into another
Network address translation (NAT)	A program that allows applications on different computers to communicate within a local area
Network basic input/output system (NetBIOS)	network (LAN).
	Used for the distribution, inquiry, retrieval, and posting of Netnews articles using a reliable stream- based mechanism. For news-reading clients, NNTP enables retrieval of news articles that are stored
	in a central database, giving subscribers the ability to select only those articles they wish to read. (RFC
Network news transfer protocol (NNTP)	3977)
	A common technique to implement network security is to segment an organization's network into
Network segmentation	separate zones that can be separately controlled, monitored and protected.
	Identifies patterns in network communications. <strong>Scope Notes: </strong> Traffic
	analysis does not need to have the actual content of the communication but analyzes where traffic is
Network traffic analysis	taking place, when and for how long communications occur and the size of information transferred.  Method of selecting a portion of a population, by means of own judgement and experience, for the
	purpose of quickly confirming a proposition. This method does not allow drawing mathematical
Non-statistical sampling	conclusions on the entire population.
nonce	A limited or single-use, typically small value used as an initialization, seed, or other special-purpose value.
······	Machine-readable instructions produced from a compiler or assembler program that has accepted
Object code	and translated the source code.
	A consortium with more than 700 affiliates from the software industry whose purpose is to provide a
	common framework for developing applications using object-oriented programming
Object management group (OMG)	techniques. ctrong>Scope Notes: For example, OMG is known principally for promulgating the Common Object Request Broker Architecture (CORBA) specification.
Suject management group (Olvio)	promuigating the common object nequest bloker Architecture (CONDA) specification.
	An approach to system development in which the basic unit of attention is an object, which
	represents an encapsulation of both data (an object's attributes) and functionality (an object's methods).   -/> strong>Cope Notes: Objects usually are created using a general
	template called a class. A class is the basis for most design work in objects. A class and its objects
	communicate in defined ways. Aggregate classes interact through messages, which are directed
Object orientation	requests for services from one class (the client) to another class (the server). A class may share the
Object orientation	structure or methods defined in one or more other classesa relationship known as inheritance.

Objectivity	The ability to exercise judgment, express opinions and present recommendations with impartiality
	A system development methodology that is organized around "objects" rather than "actions," and "data" rather than "logic"br/> <strong>Scope Notes: </strong> Object-oriented analysis is an assessment of a physical system to determine which objects in the real world need to be represented as objects in a software system. Any object-oriented design is software design that is centered around designing the objects that will make up a program. Any object-oriented program is one that is
Object-oriented system development	composed of objects or software parts.  Computer file storage media that are not physically connected to the computer; typical examples are
Offline files	tapes or tape cartridges used for backup purposes.
Offsite storage	A facility located away from the building housing the primary information processing facility (IPF), used for storage of computer media such as offline backup data and storage files.
Online data processing	Achieved by entering information into the computer via a video display terminal. <strong>Scope Notes: </strong> With online data processing, the computer immediately accepts or rejects the information as it is entered.
Open Source Security Testing Methodology	An open and freely available methodology and manual for security testing.
Open system	System for which detailed specifications of the composition of its component are published in a nonproprietary environment, thereby enabling competing enterprises to use these standard components to build competitive systems. systems. systems of using open systems include portability, interoperability and integration.
Operating system (OS)	A master control program that runs the computer and acts as a scheduler and traffic controllerbr/> scrope Notes: The operating system is the first program copied into the computer's memory after the computer is turned on; it must reside in memory at all times. It is the software that interfaces between the computer hardware (disk, keyboard, mouse, network, modem, printer) and the application software (word processor, spreadsheet, e-mail), which also controls access to the devices and is partially responsible for security components and sets the standards for the application programs that run in it.
Operating system audit trail	Record of system events generated by a specialized operating system mechanism.
Operational audit	An audit designed to evaluate the various internal controls, economy and efficiency of a function or department.
Operational control	Deals with the everyday operation of a company or enterprise to ensure that all objectives are achieved.
Operational level agreement (OLA)	An internal agreement covering the delivery of services that support the IT organization in its delivery of services.
Operator console	A special terminal used by computer operations personnel to control computer and systems operations functions. <pre>cstrong&gt;Scope Notes: Operator console terminals typically provide a high level of computer access and should be properly secured.</pre>
Optical character recognition (OCR)	Used to electronically scan and input written information from a source document.
Optical scanner	An input device that reads characters and images that are printed or painted on a paper form into the computer.
Organization	The manner in which an enterprise is structured; can also mean the entity.
Organization for Economic Cooperation and Development (OECD) Outcome	An international organization helping governments tackle the economic, social and governance challenges of a global economy. br/> strong>Scope Notes: The OECD groups 30 member countries in a unique forum to discuss, develop, and refine economic and social policies.  Result
Outcome measure	Represents the consequences of actions previously taken; often referred to as a lag indicator. strong>Scope Notes: Outcome measure frequently focuses on results at the end of a time period and characterize historic performance. They are also referred to as a key goal indicator (KGI) and used to indicate whether goals have been met. These can be measured only after the fact and, therefore, are called "lag indicators."
	Checks the accuracy of the results produced by a test run. There are three types of checks that an output analyzer can perform. First, if a standard set of test data and test results exist for a program, the output of a test run after program maintenance can be compared with the set of results that should be produced. Second, as programmers prepare test data and calculate the expected results, these results can be stored in a file and the output analyzer compares the actual results of a test run with the expected results. Third, the output analyzer can act as a query language; it accepts queries about whether certain relationships exist in
Output analyzer	the file of output results and reports compliance or noncompliance.
Outsourcing	A formal agreement with a third party to perform IS or other business functions for an enterprise.
Objective	Statement of a desired outcome br/> <strong>Scope Notes: </strong> COBIT 5 perspective An enabler of governance and of management. Includes the enterprise and its structures, hierarchies and dependencies. br/> <strong>Scope Notes: </strong> Example: Steering
Organizational structure	committee  COBIT 5 perspective
	Individual or group that holds or possesses the rights of and the responsibilities for an enterprise, entity or asset.  <strong>Scope Notes: </strong> Examples: process owner, system owner br/> COBIT
Owner	5 perspective
Obfuscation	The deliberate act of creating source or machine code that is difficult for humans to understand

Open Systems Interconnect (OSI) model	A model for the design of a network. The open systems interconnect (OSI) model defines groups of functionality required to network computers into layers. Each layer implements a standard protocol to implement its functionality. There are seven layers in the OSI model.
Open Web Application Security Project (OWASP)	An open community dedicated to enabling organizations to conceive, develop, acquire, operate, and maintain applications that can be trusted
Packet	Data unit that is routed from source to destination in a packet-switched network. br/> results of the source of the so
Packet filtering	either letting them pass, or denying them, based on a list of rules.
Packet internet groper (PING)	An Internet program (Internet Control Message Protocol [ICMP]) used to determine whether a specific IP address is accessible or online. It is a network application that uses User Datagram Protocol (UDP) to verify reachability of another host on the connected network.chr/>cbr/>cstrong>Scope Notes:    network.chr/>cbr/>cstrong>Scope Notes:  * to row to send ing a packet to the specified address and waiting for a reply. PING is used primarily to troubleshoot Internet connections. In addition, PING reports the number of hops required to connect two Internet hosts. There are both freeware and shareware PING utilities available for personal computers (PCs).
Packet switching	The process of transmitting messages in convenient pieces that can be reassembled at the destination.
Paper test	A walk-through of the steps of a regular test, but without actually performing the steps. <strong>Scope Notes: </strong> Usually used in disaster recovery and contingency testing; team members review and become familiar with the plans and their specific roles and responsibilities
Parallel simulation	Involves an IS auditor writing a program to replicate those application processes that are critical to an audit opinion and using this program to reprocess application system data. Notes: The results produced by parallel simulation are compared with the results generated by the application system and any discrepancies are identified.  The process of feeding test data into two systems, the modified system and an alternative system
Parallel testing	(possibly the original system), and comparing results to demonstrate the consistency and inconsistency between two versions of the application.
Parity check Partitioned file	A general hardware control that helps to detect data errors when data are read from memory or communicated from one computer to another. br/> strong>Scope Notes: A 1-bit digit (either 0 or 1) is added to a data item to indicate whether the sum of that data item's bit is odd or even. When the parity bit disagrees with the sum of the other bits, the computer reports an error. The probability of a parity check detecting an error is 50 percent.  A file format in which the file is divided into multiple sub files and a directory is established to locate each sub file.
Passive assault	Intruders attempt to learn some characteristic of the data being transmitted. <pre>transmitted.<pre>transmitted.<pre>transmitted.<pre>transmitted.<pre>transmitted.<pre>transmitted.<pre>transmitted.<pre>transmitted.<pre>transmitted.</pre> alternatively, although the to read the contents of the data so the privacy of the data is violated. Alternatively, although the content of the data itself may remain secure, intruders may read and analyze the plaintext source and destination identifiers attached to a message for routing purposes, or they may examine the lengths and frequency of messages being transmitted.</pre></pre></pre></pre></pre></pre></pre></pre>
Passive response	A response option in intrusion detection in which the system simply reports and records the problem
Password Password	detected, relying on the user to take subsequent action.  A protected, generally computer-encrypted string of characters that authenticate a computer user to the computer system.
Password cracker	A tool that tests the strength of user passwords by searching for passwords that are easy to guess. It repeatedly tries words from specially crafted dictionaries and often also generates thousands (and in some cases, even millions) of permutations of characters, numbers and symbols.
	An area of systems management that involves acquiring, testing and installing multiple patches (code changes) to an administered computer system in order to maintain up-to-date software and often to address security risk. by/>strong>Scope Notes: Patch management tasks include the following: maintaining current knowledge of available patches; deciding what patches are appropriate for particular systems; ensuring that patches are installed properly; testing systems after installation; and documenting all associated procedures, such as specific configurations required. A number of products are available to automate patch management tasks. Patches are sometimes ineffective and can sometimes cause more problems than they fix. Patch management experts suggest that system administrators take simple steps to avoid problems, such as performing backups and testing patches on non-critical systems prior to installations. Patch management can be viewed
Patch management	as part of change management.
Payback period	The length of time needed to recoup the cost of capital investment. <pre>c/strong&gt;Financial</pre> amounts in the payback formula are not discounted. Note that the payback period does not take into account cash flows after the payback period and therefore is not a measure of the profitability of an investment project. The scope of the internal rate of return (IRR), net present value (NPV) and payback period is the useful economic life of the project up to a maximum of five years.
Payment system	A financial system that establishes the means for transferring money between suppliers and users of funds, ordinarily by exchanging debits or credits between banks or financial institutions.

	An electronic system for processing payroll information and the related electronic (e.g., electronic
	timekeeping and/or human resources [HR] system), human (e.g., payroll clerk), and external party
	(e.g., bank) interfaces. In a more limited sense, it is the electronic system that performs the
Payroll system	processing for generating payroll checks and/or bank direct deposits to employees.
Donata di antico	A live test of the effectiveness of security defenses through mimicking the actions of real-life
Penetration testing Performance	attackers In IT, the actual implementation or achievement of a process.
renormance	in 11, the actual implementation of achievement of a process.
	A measure that is considered the "driver" of a lag indicator. It can be measured before the outcome
	is clear and, therefore, is called a "lead indicator.". -cstrong>Scope Notes: There is
	an assumed relationship between the two that suggests that improved performance in a leading indicator will drive better performance in the lagging indicator. They are also referred to as key
Performance driver	performance indicators (KPIs) and are used to indicate whether goals are likely to be met.
	A set of metrics designed to measure the extent to which performance objectives are being achieved
	on an on-going basis. strong>Scope Notes:Performance indicators can include service level agreements (SLAs), critical success factors (CSFs), customer satisfaction ratings, internal
Performance indicators	or external benchmarks, industry best practices and international standards.
	In IT, the ability to manage any type of measurement, including employee, team, process, operational
	or financial measurements. The term connotes closed-loop control and regular monitoring of the
Performance management	measurement.
Performance testing	Comparing the system's performance to other equivalent systems, using well-defined benchmarks.
	Auxiliary computer hardware equipment used for input, output and data
	storage. storage. strong>Scope Notes: Examples of peripherals include disk drives and
Peripherals	printers.
D   15 75   (DDA)	Also called palmtop and pocket computer, PDA is a handheld device that provide computing,
Personal digital assistant (PDA)	Internet, networking and telephone characteristics.
	A type of password (i.e., a secret number assigned to an individual) that, in conjunction with some
	means of identifying the individual, serves to verify the authenticity of the
	individual. /> <strong>Scope Notes: </strong> PINs have been adopted by financial
Personal identification number (PIN)	institutions as the primary means of verifying customers in an electronic funds transfer (EFT) system.
Pervasive IS control	General control designed to manage and monitor the IS environment and which, therefore, affects all IS-related activities.
reivasive is control	io-related activities.
	A step-by-step approach consisting of various phases <strong>Scope Notes:</strong> Phase
	of BCP is usually comprised of the following phases: pre-implementation phase, implementation
Phase of BCP	phase, testing phase, and post-implementation phase.
	This is a type of electronic mail (e-mail) attack that attempts to convince a user that the originator is genuine, but with the intention of obtaining information for use in social
	engineering. sbr/> <strong>Scope Notes:</strong> Phishing attacks may take the form of
	masquerading as a lottery organization advising the recipient or the user's bank of a large win; in
	either case, the intent is to obtain account and personal identification number (PIN) details.
DI. L.	Alternative attacks may seek to obtain apparently innocuous business information, which may be
Phishing	used in another form of active attack.
Phreakers	Those who crack security, most frequently telephone and other communication networks.
	1. Following an authorized person into a restricted access area.  >2. Electronically attaching
Piggybacking	to an authorized telecommunications link to intercept and possibly alter transmissions.
Plaintext	Digital information, such as cleartext, that is intelligible to the reader.
	Offers the capability to deploy onto the cloud infrastructure customer-created or -acquired
Platform as a Service (PaaS)	applications that are created using programming languages and tools supported by the provider.
PMBOK (Project Management Body of Knowledge)	A project management standard developed by the Project Management Institute (PMI).
	A telephone number that represents the area in which the communication provider or Internet
Point-of-presence (POP)	service provider (ISP) provides service.
	Enables the capture of data at the time and place of transaction.  <
	chables the capture of data at the time and place of transaction. <a href="https://www.comps.com/scope-wotes.">c/strong&gt;scope-wotes.</a>
	readers for use with credit cards. POS systems may be online to a central computer or may use stand-
	alone terminals or microcomputers that hold the transactions until the end of a specified period
Point-of-sale (POS) systems	when they are sent to the main computer for batch processing.
Point-to-point Protocol (PPP)	A protocol used for transmitting data between two ends of a connection.
Point-to-point Tunneling Protocol (PPTP)	A protocol used to transmit data securely between two end points to create a virtual private network (VPN).
	(11.11)
	1. Generally, a document that records a high-level principle or course of action that has been decided
	on br/>The intended purpose is to influence and guide both present and future decision making to be in line with the philosophy, objectives and strategic plans established by the enterprise's
	to be in line with the philosophy, objectives and strategic plans established by the enterprise's management teams. <pre>management teams.</pre> <pre>modes:</pre> <pre>cstrong&gt;Scope Notes:</pre> <pre>cstrong&gt;In addition to policy content, policies</pre>
	need to describe the consequences of failing to comply with the policy, the means for handling
	exceptions, and the manner in which compliance with the policy will be checked and measured.
Policy	  <strong>Scope Notes: </strong> COBIT 5 perspective
	Polymorphism refers to database structures that send the same command to different child objects
Polymorphism (Objects)	that can produce different results depending on their family hierarchical tree structure.

	The entire set of data from which a complete colorted and about which as IC audit
Population	The entire set of data from which a sample is selected and about which an IS auditor wishes to draw conclusions.
	A grouping of "objects of interest" (investment programs, IT services, IT projects, other IT assets or
	resources) managed and monitored to optimize business value. (The investment portfolio is of
Portfolio	primary interest to Val IT. IT service, project, asset and other resource portfolios are of primary interest to COBIT.).
	The process of actually entering transactions into computerized or manual
	files. strong>Scope Notes: Posting transactions might immediately update the
Posting	master files or may result in memo posting, in which the transactions are accumulated over a period of time and then applied to master file updating.
· oscing	of time and their applica to master the apparents
	Application control that is intended to prevent an error from occurring. Preventive application
Preventive application control	controls are typically executed at the transaction level, before an action is performed.
	An internal control that is used to avoid undesirable events, errors and other occurrences that an
Preventive control	enterprise has determined could have a negative material effect on a process or end product.
	Developed by the Office of Government Commerce (OGC), PRINCE2 is a project management method
PRINCE2 (Projects in a Controlled Environment)	that covers the management, control and organization of a project.
	The rights of an individual to trust that others will appropriately and respectfully use, store, share and
	dispose of his/her associated personal and sensitive information within the context, and according to the purposes, for which it was collected or derived
	  />/br/>
	<strong>Scope Notes:</strong>
	What is appropriate depends on the associated circumstances, laws and the individual's reasonable
Privacy	expectations. An individual also has the right to reasonably control and be aware of the collection, use and disclosure of his\her associated personal and sensitive information.
	A telephone exchange that is owned by a private business, as opposed to one owned by a common
Private branch exchange (PBX)	carrier or by a telephone company.
	A mathematical key (kept secret by the holder) used to create digital signatures and, depending on the algorithm, to decrypt messages or files encrypted (for confidentiality) with the corresponding
Private key	public key.
Privilege	The level of trust with which a system object is imbued.
Problem	In IT, the unknown underlying cause of one or more incidents.
	The process of escalating a problem up from junior to senior support staff, and ultimately to higher levels of management. <strong>Scope Notes: </strong> Problem escalation procedure is
	often used in help desk management, when an unresolved problem is escalated up the chain of
Problem escalation procedure	command, until it is solved.
	A decument containing a detailed description of the store processors to perform specific approximation in
Procedure	A document containing a detailed description of the steps necessary to perform specific operations in conformance with applicable standards. Procedures are defined as part of processes.
	Generally, a collection of activities influenced by the enterprise's policies and procedures that takes
	inputs from a number of sources, (including other processes), manipulates the inputs and produces outputs. outputs.  strong>Scope Notes: Processes have clear business reasons for existing,
	accountable owners, clear roles and responsibilities around the execution of the process, and the
Process	means to measure performance.
	A subjective assessment technique derived from the Software Engineering Institute (SEI) capability
	maturity model integration (CMMI) concepts and developed as a COBIT management tool. It provides
	management with a profile of how well developed the IT management processes
	are. 
Process maturity assessment	and appreciate what is required if improved performance is needed. It is used to set targets, raise awareness, capture broad consensus, identify improvements and positively motivate change.
Process maturity attribute	The different aspects of a process covered in an assurance initiative.
	Program used to process live or actual data that were received as input into the production
Production program	environment.  Software that is being used and executed to support normal and authorized organizational
	operations. <a href="https://crong-Scope">br/&gt;<strong-scope <="" a="" notes:=""><a href="https://crong-Strong-Scope">roduction software is to be distinguished</a></strong-scope></a>
	from test software, which is being developed or modified, but has not yet been authorized for use by
Production software	management.
Professional competence	Proven level of ability, often linked to qualifications issued by relevant professional bodies and compliance with their codes of practice and standards.
	Refers to standards issued by ISACA. The term may extend to related guidelines and techniques that
	assist the professional in implementing and complying with authoritative pronouncements of ISACA.  In certain instances, standards of other professional organizations may be considered, depending on
Professional standards	the circumstances and their relevance and appropriateness.
	A structured grouping of interdependent projects that is both necessary and sufficient to achieve a
	desired business outcome and create value. These projects could include, but are not limited to,
	changes in the nature of the business, business processes and the work performed by people as well as the competencies required to carry out the work, the enabling technology, and the organizational
Program	as the competencies required to carry out the work, the enabling technology, and the organizational structure.
-	
Program Evaluation and Review Technique (PERT)	A project management technique used in the planning and control of system projects.
Program Evaluation and Review Technique (PERT)	A project management technique used in the planning and control of system projects.
Program Evaluation and Review Technique (PERT)	A project management technique used in the planning and control of system projects.  Shows the sequence of instructions in a single program or subroutine. str/> >cstrong>Scope
Program Evaluation and Review Technique (PERT)  Program flowchart	A project management technique used in the planning and control of system projects.
	A project management technique used in the planning and control of system projects.  Shows the sequence of instructions in a single program or subroutine. Notes: The symbols used in program flowcharts should be the internationally accepted

Project	A structured set of activities concerned with delivering a defined capability (that is necessary but no sufficient, to achieve a required business outcome) to the enterprise based on an agreed-on schedu and budget.
Project management officer (PMO)	The individual function responsible for the implementation of a specified initiative for supporting th project management role and advancing the discipline of project management.  The set of projects owned by a company. The set of projects owned by a company. 
Project portfolio	includes the main guidelines relative to each project, including objectives, costs, time lines and othe information specific to the project.
	Group of people responsible for a project, whose terms of reference may include the development, acquisition, implementation or maintenance of an application system.  
Project team	Notes: The project team members may include line management, operational line staff, external contractors and IS auditors.
Promiscuous mode	Allows the network interface to capture all network traffic irrespective of the hardware device to which the packet is addressed.
rotection domain	The area of the system that the intrusion detection system (IDS) is meant to monitor and protect.
Protocol	The rules by which a network operates and controls the flow and priority of transmissions.
Protocol converter	Hardware devices, such as asynchronous and synchronous transmissions, that convert between two different types of transmission.
Protocol stack	A set of utilities that implement a particular network protocol.  <strong>Scope Notes: </strong> For instance, in Windows machines a Transmission Control Protocol/Internet Protocol (TCP/IP) stack consists of TCP/IP software, sockets software and hardware driver software.
Prototyping	The process of quickly putting together a working model (a prototype) in order to test various aspect of a design, illustrate ideas or features and gather early user feedback. Notes: Prototyping uses programmed simulation techniques to represent a model of the final system to the user for advisement and critique. The emphasis is on end-user screens and reports. Internal controls are not a priority item since this is only a model.
Proxy server	A server that acts on behalf of a user. strong>Scope Notes: Typical proxies accept a connection from a user, make a decision as to whether the user or client IP address is permitted to use the proxy, perhaps perform additional authentication, and complete a connection a remote destination on behalf of the user.
	In an asymmetric cryptographic scheme, the key that may be widely published to enable the
tublic key	operation of the scheme.  A cryptographic system that uses two keys: one is a public key, which is known to everyone, and the second is a private or secret key, which is only known to the recipient of the message. See also Asymmetric Key.
Public key encryption  Public key infrastructure (PKI)	A series of processes and technologies for the association of cryptographic keys with the entity to whom those keys were issued.
Principle	An enabler of governance and of management. Comprises the values and fundamental assumption held by the enterprise, the beliefs that guide and put boundaries around the enterprise's decision making, communication within and outside the enterprise, and stewardship—caring for assets owned by another. br/> chr/>cstrong>Scope Notes: Examples: Ethics charter, social responsibility charter. chr/>cbr/>cD8IT 5 perspective
Process goals	A statement describing the desired outcome of a process.  <strong>Scope Notes: </strong> An outcome can be an artifact, a significant change of a state or a significant capability improvement of other processes.  COBIT 5 perspective
Organization and the second of	The function responsible for supporting program and project managers, and gathering, assessing an
Program and project management office (PMO) Patch	reporting information about the conduct of their programs and constituent projects  Fixes to software programming errors and vulnerabilities
Payload	The section of fundamental data in a transmission. In malicious software this refers to the section containing the harmful data/code.
Plain old telephone service (POTS)	A wired telecommunications system.  A process or application-specific software element serving as a communication endpoint for the
Port (Port number) Port scanning	Transport Layer IP protocols (UDP and TCP)  The act of probing a system to identify open ports
Prime number	A natural number greater than 1 that can only be divided by 1 and itself.
Principle of least privilege/access Probe	Controls used to allow the least privilege access needed to complete a task Inspect a network or system to find weak spots
	The application of relevant knowledge and experience in making informed decisions about the
	courses of action that are appropriate in the circumstances of the IS audit and assurance engageme
Professional judgement	An attitude that includes a questioning mind and a critical assessment of audit
	· · · · · · · · · · · · · · · · · · ·
Professional skepticism	evidence.  /strong>Scope Notes: Source: American Institute of Certified Public
Professional skepticism	evidence. evidence. strong>Scope Notes: Source: American Institute of Certified Public Accountants (AICPA) AU 230.07  A communications system that sets up a dedicated channel (or circuit) between two points for the duration of the transmission.  A primitive is a fundamental interface, block of code or basic functionality that can be deployed and reused within broader systems or interfaces. Primitives can be combined in various ways to
Professional judgement  Professional skepticism  Public switched telephone network (PSTN)  primitive	evidence. strong>Scope Notes: Source: American Institute of Certified Public Accountants (AICPA) AU 230.07 A communications system that sets up a dedicated channel (or circuit) between two points for the duration of the transmission. A primitive is a fundamental interface, block of code or basic functionality that can be deployed and

	Public key cryptosystems combine a widely distributed public key and a closely held, protected private key. A message that is encrypted by the public key can only be decrypted by the mathematically related, counterpart private key. Conversely, only the public key can decrypt data
public key cryptosystem	that was encrypted by its corresponding private key. See asymmetric cipher.
Quality Assurance (QA)	A planned and systematic patter of all actions necessary to provide adequate confidence that an item or product conforms to established technical requirements. (ISO/IEC 24765)
Quality management system (QMS)	A system that outlines the policies and procedures necessary to improve and control the various processes that will ultimately lead to improved enterprise performance.
Queue	A group of items that is waiting to be serviced or processed.
	A recovery solution provided by recovery and/or hardware vendors and includes a pre-established contract to deliver hardware resources within a specified number amount of hours after a disaster occurs. <pre>corp</pre> />cstrong>Scope Notes: The quick ship solution usually provides enterprises
Quick ship	with the ability to recover within 72 or more hours.
Quality	Being fit for purpose (achieving intended value)  <strong>Scope Notes: </strong> COBIT 5 perspective
RACI chart	Illustrates who is Responsible, Accountable, Consulted and Informed within an organizational framework.
Radio wave interference	The superposition of two or more radio waves resulting in a different radio wave pattern that is more difficult to intercept and decode properly.
Dandom assass memory (DAM)	The computer's primary working memory. <pre>cbr/&gt;<strong>Scope Notes: </strong>Each byte of primary working memory.</pre>
Random access memory (RAM) Range check	RAM can be accessed randomly regardless of adjacent bytes.  Range checks ensure that data fall within a predetermined range.
	A methodology that enables enterprises to develop strategically important systems faster, while reducing development costs and maintaining quality by using a series of proven application
Rapid application development	development techniques, within a well-defined methodology.
Real-time analysis	Analysis that is performed on a continuous basis, with results gained in time to alter the run-time system.
Real-time processing	An interactive online system capability that immediately updates computer files when transactions are initiated through a terminal.
<u> </u>	A level of comfort short of a guarantee, but considered adequate given the costs of the control and
Reasonable assurance	the likely benefits achieved.
Reasonableness check	Compares data to predefined reasonability limits or occurrence rates established for the data.
	Emergency processing agreement between two or more enterprises with similar equipment or
Reciprocal agreement	applications.  <strong>Scope Notes: </strong> Typically, participants of a reciprocal agreement promise to provide processing time to each other when an emergency arises.
	A collection of related information that is treated as a unit.  <strong>Scope Notes:</strong>
Record	Separate fields within the record are used for processing of the information.
	Record layouts provide information regarding the type of record, its size and the type of data contained in the record. Screen and report layouts describe what information is provided and
Record, screen and report layouts	necessary for input.
Recovery action	Execution of a response or task according to a written procedure.  Determined based on the acceptable data loss in case of a disruption of operations. It indicates the
Recovery point objective (RPO)	earliest point in time that is acceptable data loss in case of a disruption of operations, it indicates the earliest point in time that is acceptable to recover the data. The RPO effectively quantifies the permissible amount of data loss in case of interruption.
	An approach by an enterprise that will ensure its recovery and continuity in the face of a disaster or other major outage. br/>  cstrong>Scope Notes:   strategy. There may be more than one methodology or solution for an enterprise's strategy. Enter may be more than one methodology or solution for an enterprise's strategy. Examples of methodologies and solutions include: contracting for hot site or cold site, building an internal hot site or cold site, identifying an alternate work area, a consortium or
Recovery strategy	reciprocal agreement, contracting for mobile recovery or crate and ship, and many others.
Recovery testing	A test to check the system's ability to recover after a software or hardware failure.  The amount of time allowed for the recovery of a business function or resource after a disaster
Recovery time objective (RTO)	occurs  Files maintained by a system, primarily a database management system (DBMS), for the purpose of
Redo logs	reapplying changes following an error or outage recovery.
Redundancy check	Detects transmission errors by appending calculated bits onto the end of each segment of data.
Redundant Assau of Inguinancius Dicks (DAID)	Provides performance improvements and fault-tolerant capabilities via hardware or software solutions, by writing to a series of multiple disks to improve performance and/or save large files
Redundant Array of Inexpensive Disks (RAID)	simultaneously.  A recovery strategy involving the duplication of key IT components, including data or other key
Redundant site	business processes, whereby fast recovery can take place.
	A process involving the extraction of components from existing systems and restructuring these components to develop new systems or to enhance the efficiency of existing systems.cbr/>cbr/>cstrong>Scope Notes: Existing software systems can be modernized to prolong their functionality. An example is a software code translator that can take an existing hierarchical database system and transpose it to a relational database system. Computer-aided
Reengineering	software engineering (CASE) includes a source code reengineering feature.
Registration authority (RA)	The individual institution that validates an entity's proof of identity and ownership of a key pair.  A testing technique used to retest earlier program abends or logical errors that occurred during the
Regression testing	initial testing phase.

Relational database management system (RDBMS)	The general purpose of a database is to store and retrieve related information. 
Relevant audit evidence	Audit evidence is relevant if it pertains to the audit objectives and has a logical relationship to the findings and conclusions it is used to support.
Reliable audit evidence	Audit evidence is reliable if, in the IS auditor's opinion, it is valid, factual, objective and supportable.
Nellable addit evidence	Addit evidence is reliable if, in the is additor's opinion, it is valid, factual, objective and supportable.
Remote access service (RAS)	Refers to any combination of hardware and software to enable the remote access to tools or information that typically reside on a network of IT devices. 

A type of Notice are network (J.Ad) principative in which the calcular forms a two, with natices attended antennet among the processing and each office the processing of the calculation of the probability of the calculation of the calculation of the probability of the calculation of the calculatio		
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The combination of the probability of an event and its impact.  The process of integrating dis assessments as a comparate level to obtain a complete view on the loss aggregation  A process of which requires a comparate level to obtain a complete view on the loss aggregation  A process of which requires a majority of the value of a scale to the behavior. A process of which requires a majority of the value of a scale to the behavior of the centre o	Ding topology	and each station determines, on the basis of an address, whether to accept or process a given message. However, after receiving a message, each station acts as a repeater, retransmitting the
The process of integrating cits assessments at a corporate level to obtain a complete view on the owner has been according for the enterprise.  1. A process by which frequency on designified of if not according an estimated don-cho-2. The ministration of the control of the co		
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A process used to identify and evaluate risk and its potential effects. dar/s-/try-/try-/sctrosp-Scope Notes:  A process used to identify those items or are set that present the highest risk, where shally or response to the enterprise for includes in the IS annual south plan for years /polisk assessment in the shall over the enterprise for including risk, constituting in the IS annual south plan for years /polisk assessment in the process to yearsetaction with out of the enterprise in the IS annual south plan for yearsetaction in the process of comparing the enterprise in sport of the enterprise (in the IS of IS o	Risk analysis	initial steps of risk management: analyzing the value of assets to the business, identifying threats to those assets and evaluating how vulnerable each asset is to those threats. br> <strong>Scope Notes: </strong> It often involves an evaluation of the probable frequency of a particular event, as
Notes - Afterorga-Risk assessment are used to indentify to enternor are set and present the highest risk, whiten-flittly or exposure to the enterprise for inclusion in the Sa annual audit plan Lor / John (1984) assessments are also used to manage the project delivery and project benefit risk. Risk avoidance  The process for yoperaturality avoiding iss, constituting one approach to managing risk.  Risk avoidance  The set of shared values and belefs that governs at inches toward mix failing, care and integrity, and determine to yoperaturality avoiding risk, constituting one approach to managing risk.  Risk evaluation  A condition that can influence the frequency and/or ragnitude and, ultimately, the business impact of it "related event-functions" of "It "related event-functions" of "	Risk appetite	The amount of risk, on a broad level, that an entity is willing to accept in pursuit of its mission.
The process for systematically avoiding risk, constituting one approach to managing risk the set of harder values and beliefs that govern at stoward risk stang, can and integrity, and determine thew openly risk and loses are reported and discussed.  The process of comparing the ceithander risk against risk richeria to determine the significance of the risk. [50/EC dade 73:2002].  A condition that can influence the frequency and/or magnitude and, ultimately, the business impact of TT-related events/scenarios.  A nentic capable of thorough that the enterprise is subject to, or has a high probability of being subject to, a risk that exceeds the defined risk appetite.  A the condition of the enterprise is subject to, or has a high probability of being subject to, a risk that exceeds the defined risk appetite.  A the condition of the enterprise is subject to, or has a high probability of being subject to, a risk that exceeds the defined risk appetite.  A the conditional activities to distinct and control an enterprise with rigard to risk.  A process of control of the enterprise is subject to, or has a high probability of being subject to, a risk that exceeds the defined risk appetite.  A process of subject to, a risk that exceeds the defined risk appetite.  A process of subject to, a risk that exceeds the defined risk appetite.  A process of subject to, a risk that exceeds the defined risk appetite.  A process of subject to, a risk and subject to, a risk that exceeds the defined risk appetite.  A process of subject to, a risk and subject to, and a risk and subject to, an		Notes: Risk assessments are used to identify those items or areas that present the highest risk, vulnerability or exposure to the enterprise for inclusion in the IS annual audit plan. for /> >
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· · · · · · · · · · · · · · · · · · ·	Router	applications (ports).
	RS-232 interface	

	A public key cryptosystem developed by R. Rivest, A. Shamir and L. Adleman used for both encryption
	and digital signatures. strong>Scope Notes: The RSA has two different keys, the
	public encryption key and the secret decryption key. The strength of the RSA depends on the
	difficulty of the prime number factorization. For applications with high-level security, the number of
RSA	the decryption key bits should be greater than 512 bits.
Rulebase	The list of rules and/or guidance that is used to analyze event data.
	Computer operating instructions which detail the step-by-step processes that are to occur so an
	application system can be properly executed; also identifies how to address problems that occur
Run instructions	during processing.
Run-to-run totals	Provide evidence that a program processes all input data and that it processed the data correctly.
turi-to-rum totais	Any enterprise asset that can help the organization achieve its objectives <pre> Any enterprise asset that can help the organization achieve its objectives    </pre>
Resource	Notes: COBIT 5 perspective
icoon co	One of the governance objectives. Involves effective, efficient and responsible use of all
	resources—human, financial, equipment, facilities, etc. y strong>Scope Notes:
Resource optimization	COBIT 5 perspective
Ransomware	Malware that restricts access to the compromised systems until a ransom demand is satisfied
_	The phase in the incident response plan that ensures that affected systems or services are restored to
Recovery	a condition specified in the service delivery objectives (SDOs) or business continuity plan (BCP)
Desistand parts	Registered ports1024 through 49151: Listed by the IANA and on most systems can be used by
Registered ports	ordinary user processes or programs executed by ordinary users  Rules or laws defined and enforced by an authority to regulate conduct
Regulation	naics on itams defined and enforced by an authority to regulate conduct
Regulatory requirements	Rules or laws that regulate conduct and that the enterprise must obey to become compliant
	naice of the control
	Relating to controls, tells the evaluator something meaningful about the operation of the underlying
	controls or control component. Information that directly confirms the operation of controls is most
	relevant. Information that relates indirectly to the operation of controls can also be relevant, but is
	less relevant than direct information. <strong>Scope Notes: </strong> Refer to COBIT 5
Relevant information	information quality goals
	Information that is accurate, verifiable and from an objective source. br/> strong>Scope
Reliable information	Notes: Refer to COBIT 5 information quality goals
	After vulnerabilities are identified and assessed, appropriate remediation can take place to mitigate
Remediation	or eliminate the vulnerability
Removable media	Any type of storage device that can be removed from the system while is running  The ability to copy a message or stream of messages between two parties and replay (retransmit)
Replay	them to one or more of the parties
черіаў	A signed or oral statement issued by management to professionals, where management declares that
	a current or future fact (e.g., process, system, procedure, policy) is or will be in a certain state, to the
Representation	best of management's knowledge.
representation	An exploit technique in which the attacker uses control of the call stack to indirectly execute cherry-
	picked machine instructions immediately prior to the return instruction in subroutines within the
Return-oriented attacks	existing program code
	If the risk is within the enterprise's risk tolerance or if the cost of otherwise mitigating the risk is
Risk acceptance	higher than the potential loss, the enterprise can assume the risk and absorb any losses
	The implementation of controls or countermeasures to reduce the likelihood or impact of a risk to a
·	The implementation of controls or countermeasures to reduce the likelihood or impact of a risk to a level within the organization's risk tolerance.
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Risk reduction  Risk response  Risk scenario  Risk sharing  Risk statement  randomness  Safeguard	The implementation of controls or countermeasures to reduce the likelihood or impact of a risk to a level within the organization's risk tolerance.  Risk avoidance, risk acceptance, risk sharing/transfer, risk mitigation, leading to a situation that as much future residual risk (current risk with the risk response defined and implemented) as possible (usually depending on budgets available) falls within risk appetite limits.  The tangible and assessable representation of risk. br> strong>Scope Notes: Gone of the key information items needed to identify, analyze and respond to risk (COBIT 5 Process APO12)
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	A method used in the information processing facility (IPF) to determine and establish the sequence of
Scheduling	computer job processing.
	Also called requirement creep, this refers to uncontrolled changes in a project's scope. scope. scope. scope. scope. scope. scope. scope. scope is not properly defined, documented and controlled. Typically, the scope increase consists of either new products or new features of already approved products. Hence, the project team drifts away from its original purpose. Because of one's tendency to focus on only one dimension of a project, scope creep can also result in a project team overrunning its original budget and schedule. For example, scope creep can be a result of poor change control, lack of proper identification of what products and features are required to bring about the achievement of project objectives in the first
Scope creep	place, or a weak project manager or executive sponsor.
Scoping process	Identifying the boundary or extent to which a process, procedure, certification, contract, etc., applies.  A router configured to permit or deny traffic based on a set of permission rules installed by the
Screening routers  Secure Sockets Layer (SSL)	administrator.  A protocol that is used to transmit private documents through the Internet. Notes: The SSL protocol uses a private key to encrypt the data that are to be transferred through the SSL connection.
	The person responsible for implementing, monitoring and enforcing security rules established and
Security administrator	authorized by management.  The extent to which every member of an enterprise and every other individual who potentially has access to the enterprise's information understand: <li>Security and the levels of security appropriate to the enterprise</li> <li>Ii&gt;The importance of security and consequences of a lack of security</li> <li>Their individual responsibilities regarding security (and act accordingly).</li> <li>Ii&gt;Cordingly).</li> <li>Ii&gt;Cordingly).</li> <li>Ii&gt;Ii&gt;Implementation Guide: How to Make Your Organization Aware</li>
Security awareness	of IT Security, European Security Forum (ESF), London, 1993  A predefined, organized number of actions aimed at improving the security awareness of a special
Security awareness campaign	target audience about a specific security problem. Each security awareness program consists of a number of security awareness campaigns.
Security awareness coordinator	The individual responsible for setting up and maintaining the security awareness program and coordinating the different campaigns and efforts of the various groups involved in the program. He/she is also responsible for making sure that all materials are prepared, advocates/trainers are trained, campaigns are scheduled, events are publicized and the program as a whole moves forward.
Security awareness program	A clearly and formally defined plan, structured approach, and set of related activities and procedures with the objective of realizing and maintaining a security-aware culture. Notes: This definition clearly states that it is about realizing and maintaining a security-aware culture, meaning attaining and sustaining security awareness at all times. This implies that a security awareness program is not a one-time effort, but a continuous process.
Security forum	Responsible for information security governance within the enterprise. br/> <strong>Scope Notes: </strong> A security forum can be part of an existing management body. Because information security is a business responsibility shared by all members of the executive management team, the forum needs to involve executives from all significant parts of the enterprise. Typically, a security forum has the following tasks and responsibilities: <i>&gt;Defining a security strategy in line with the business strategy   i&gt;<li>definition security requirements </li> here with the proving up an overall security program or plans/ i&gt; here with the proving major initiatives to enhance information security</i> <in>here with the proving and monitoring information security incidents </in>
Security incident	A series of unexpected events that involves an attack or series of attacks (compromise and/or breach of security) at one or more sites. A security incident normally includes an estimation of its level of impact. A limited number of impact levels are defined and, for each, the specific actions required and the people who need to be notified are identified.
	The process of establishing and maintaining security for a computer or network system. syst
Security management Security metrics	avenues of access.  A standard of measurement used in management of security-related activities.
Security perimeter Security policy	The boundary that defines the area of security concern and security policy coverage.  A high-level document representing an enterprise's information security philosophy and commitment.
Security policy Security procedures	The formal documentation of operational steps and processes that specify how security goals and objectives set forward in the security policy and standards are to be achieved.
Security software	Software used to administer security, which usually includes authentication of users, access granting according to predefined rules, monitoring and reporting functions.  Practices, directives, guidelines, principles or baselines that state what needs to be done and focus
Security standards	areas of current relevance and concern; they are a translation of issues already mentioned in the security policy.
Security testing	Ensuring that the modified or new system includes appropriate controls and does not introduce any security holes that might compromise other systems or misuses of the system or its information.

	The current and prospective risk to earnings and capital arising from fraud, error and the inability to
	deliver products or services, maintain a competitive position, and manage
	information. strong>Scope Notes: Security risk is evident in each product and
	service offered, and it encompasses product development and delivery, transaction processing,
	systems development, computing systems, complexity of products and services and the internal
	control environment. A high level of security risk may exist with Internet banking products,
Security/transaction risk	particularly if those lines of business are not adequately planned, implemented and monitored.
	A basic internal control that prevents or detects errors and irregularities by assigning to separate
	individuals the responsibility for initiating and recording transactions and for the custody of
	assets. strong>Scope Notes: Segregation/separation of duties is commonly used
Sogragation (consention of duties (SoD)	in large IT organizations so that no single person is in a position to introduce fraudulent or malicious
Segregation/separation of duties (SoD)	code without detection.
Sensitivity	A measure of the impact that improper disclosure of information may have on an enterprise.
	Verification that the control number follows sequentially and any control numbers out of sequence
	are rejected or noted on an exception report for further research.  -
Sequence check	Can be alpha or numeric and usually utilizes a key field
Commental fla	A computer file storage format in which one record follows another. **Storage Records are to account of the record follows another.** A computer file storage format in which one record follows another.**
Sequential fle Service bureau	

	A platform-independent formatted protocol based on extensible markup language (XML) enabling applications to communicate with each other over the Internet. Use of SOAP may provide a significant security risk to web application operations because use of SOAP piggybacks onto a web-based document object model and is transmitted via HyperText Transfer Protocol (HTTP) (port 80) to penetrate server firewalls, which are usually configured to
	accept port 80 and port 21 File Transfer Protocol (FTP) requests. Web-based document models define how objects on a web page are associated with each other and how they can be manipulated while being sent from a server to a client browser. SOAP typically relies on XML for presentation formatting
	and also adds appropriate HTTP-based headers to send it. SOAP forms the foundation layer of the web services stack, providing a basic messaging framework on which more abstract layers can build.
	There are several different types of messaging patterns in SOAP, but by far the most common is the Remote Procedure Call (RPC) pattern, in which one network node (the client) sends a request message to another node (the server), and the server immediately sends a response message to the
Simple Object Access Protocol (SOAP)	client.
Single point of failure	A resource whose loss will result in the loss of service or production.
	Time in the project schedule, the use of which does not affect the project's critical path; the minimum time to complete the project based on the estimated time for each project segment and
Slack time (float)	their relationships.  <strong>Scope Notes: </strong> Slack time is commonly referred to as "float" and generally is not "owned" by either party to the transaction.
SMART	Specific, measurable, attainable, realistic and timely, generally used to describe appropriately set goals
SHALL	A small electronic device that contains electronic memory, and possibly an embedded integrated circuit. <pre>circuit. <strong>Scope Notes: </strong>Smart cards can be used for a number of purposes</pre>
Smart card	including the storage of digital certificates or digital cash, or they can be used as a token to authenticate users.
Sniff	The act of capturing network packets, including those not necessarily destined for the computer running the sniffing software.
Sniffing	The process by which data traversing a network are captured or monitored.
	An attack based on deceiving users or administrators at the target site into revealing confidential or
Social engineering	sensitive information.
Software	Programs and supporting documentation that enable and facilitate use of the computer. <strong>Scope Notes: </strong> Software controls the operation of the hardware and the processing of data.
	Offers the capability to use the provider's applications running on cloud infrastructure. The applications are accessible from various client devices through a thin client interface such as a web
Software as a service (SaaS) Software as a service, platform as a service and infrastructure as a service (SPI)	browser (e.g., web-based e-mail).  The acronym used to refer to the three cloud delivery models.
Software as a service, platform as a service and infrastructure as a service (SFI)	The actoriyin used to refer to the three cloud delivery models.
	The language in which a program is written. c/s/c/strong>Scope Notes: Source code is translated into object code by assemblers and compilers. In some cases, source code may be converted automatically into another language by a conversion program. Source code is not
Source code	executable by the computer directly. It must first be converted into a machine language.
Source code compare program	Provides assurance that the software being audited is the correct version of the software, by providing a meaningful listing of any discrepancies between the two versions of the program.
Source document	The form used to record data that have been captured. source document may be a piece of paper, a turnaround document or an image displayed for online data input.
Source lines of code (SLOC)	Often used in deriving single-point software-size estimations.
Spanning port	A port configured on a network switch to receive copies of traffic from one or more other ports on the switch.
	A condition in which each of an enterprise's regional locations maintains its own financial and operational data while sharing processing with an enterprisewide, centralized database. strong>Scope Notes: Split data systems permit easy sharing of data
Split data systems	while maintaining a certain level of autonomy.
Split domain name system (DNS)	An implementation of DNS that is intended to secure responses provided by the server such that different responses are given to internal vs. external users.
	A security technique in which two or more entities separately hold data items that individually convey no knowledge of the information that results from combining the items; a condition under which two
Split knowledge/split key	or more entities separately have key components that individually convey no knowledge of the plain text key that will be produced when the key components are combined in the cryptographic module.
Spoofing	Faking the sending address of a transmission in order to gain illegal entry into a secure system.
	An automated function that can be based on an operating system or application in which electronic data being transmitted between storage areas are spooled or stored until the receiving device or storage area is prepared and able to receive the information. Spool allows more efficient electronic data transfers from one device to another by
SPOOL (simultaneous peripheral operations online)	permitting higher speed sending functions, such as internal memory, to continue on with other operations instead of waiting on the slower speed receiving device, such as a printer.

	Software whose purpose is to monitor a computer user's actions (e.g., web sites visited) and report these actions to a third party, without the informed consent of that machine's owner or legitimate user. br/> <strong>Scope Notes: </strong> A particularly malicious form of spyware is software that monitors keystrokes to obtain passwords or otherwise gathers sensitive information such as
	credit card numbers, which it then transmits to a malicious third party. The term has also come to refer more broadly to software that subverts the computer's operation for the benefit of a third
Spyware	party.  A point in time when a program is reviewed and a decision is made to commit expenditures to the
Stage-gate	next set of activities on a program or project, to stop the work altogether, or to put a hold on execution of further work.
Standard	A mandatory requirement, code of practice or specification approved by a recognized external standards organization, such as International Organization for Standardization (ISO).
Standing data	Permanent reference data used in transaction processing. <a href="https://sctrong&gt;Scope Notes: c/strong&gt;These data are changed infrequently, such as a product price file or a name and address file.">https://sctrong&gt;These data are changed infrequently, such as a product price file or a name and address file.</a>
	A type of local area network (LAN) architecture that utilizes a central controller to which all nodes are directly connected. br/> <strong>Scope Notes: </strong> With star topology, all transmissions
Star topology	from one station to another pass through the central controller which is responsible for managing and controlling all communication. The central controller often acts as a switching device.
Static analysis	Analysis of information that occurs on a non-continuous basis; also known as interval-based analysis.  A method of selecting a portion of a population, by means of mathematical calculations and probabilities, for the purpose of making scientifically and mathematically sound inferences regarding
Statistical sampling	the characteristics of the entire population.
Storage area networks (SANs)	A variation of a local area network (LAN) that is dedicated for the express purpose of connecting storage devices to servers and other computing devices. SANs centralize the process for the storage and administration of data.
Strategic planning	The process of deciding on the enterprise's objectives, on changes in these objectives, and the policies to govern their acquisition and use.
Strengths, weaknesses, opportunities and threats (SWOT)	A combination of an organizational audit listing the enterprise's strengths and weaknesses and an environmental scan or analysis of external opportunities and threats.
Structured programming	A top-down technique of designing programs and systems that makes programs more readable, more reliable and more easily maintained.
Structured Query Language (SQL)	The primary language used by both application programmers and end users in accessing relational databases.
	The specific information subject to an IS auditor's report and related procedures, which can include things such as the design or operation of internal controls and compliance with privacy practices or
Subject matter	standards or specified laws and regulations (area of activity).  Obtaining audit evidence on the completeness, accuracy or existence of activities or transactions
Substantive testing	during the audit period.  Audit evidence is sufficient if it is adequate, convincing and would lead another IS auditor to form the
Sufficient audit evidence	same conclusions.
Supply chain management (SCM)	A concept that allows an enterprise to more effectively and efficiently manage the activities of design, manufacturing, distribution, service and recycling of products and service its customers.
Surge suppressor	Filters out electrical surges and spikes.
	A computer file used to maintain information (transactions, payments or other events) until the proper disposition of that information can be determined. Once the proper disposition of the item is determined, it should be removed from the
	suspense file and processed in accordance with the proper procedures for that particular transaction.  Two examples of items that may be included in a suspense file are receipt of a payment from a source that is not readily identified or data that do not yet have an identified match during migration
Suspense file	to a new application.  Typically associated as a data link layer device, switches enable local area network (LAN) segments to
Switches	be created and interconnected, which has the added benefit of reducing collision domains in Ethernet- based networks.
Symmetric key encryption	System in which a different key (or set of keys) is used by each pair of trading partners to ensure that no one else can read their messages. The same key is used for encryption and decryption. See also Private Key Cryptosystem.
Synchronize (SYN)	A flag set in the initial setup packets to indicate that the communicating parties are synchronizing the sequence numbers used for the data transmission.
Synchronous transmission	sequence numbers used for the data transmission.  Block-at-a-time data transmission.
	The phases deployed in the development or acquisition of a software system. system. //s//s/strong>Scope Notes: SDLC is an approach used to plan, design, develop, test and implement an application system or a major modification to an application system.
System development life cycle (SDLC)	Typical phases of SDLC include the feasibility study, requirements study, requirements definition, detailed design, programming, testing, installation and post-implementation review, but not the service delivery or benefits realization activities.
System exit	Special system software features and utilities that allow the user to perform complex system maintenance.

	Graphic representations of the sequence of operations in an information system or program. strong>Scope Notes: Information system flowcharts show how data from source documents flow through the computer to final distribution to users. Symbols used should
System flowchart	be the internationally accepted standard. System flowcharts should be updated when necessary.
System narrative	Provides an overview explanation of system flowcharts, with explanation of key control points and system interfaces.
	A collection of computer programs used in the design, processing and control of all
	applications. chr/> <strong>Scope Notes: </strong> The programs and processing routines that
System software	control the computer hardware, including the operating system and utility programs
	Testing conducted on a complete, integrated system to evaluate the system's compliance with its
System testing	specified requirements. spr/> <strong>Scope Notes: </strong> System test procedures typically are performed by the system maintenance staff in their development library.
System testing	
Systems acquisition process	Procedures established to purchase application software, or an upgrade, including evaluation of the supplier's financial stability, track record, resources and references from existing customers.
	The systems development phase in which systems specifications and conceptual designs are
Systems analysis	developed based on end-user needs and requirements.  Structured information on all IT services available to customers  Structured information on all IT services available to customers Structured information on all IT services available to customers 
	COBIT 5 perspective
Service catalogue	The learned capacity to achieve pre-determined results  
Chill	COBIT 5 perspective
Skill	Anyone who has a responsibility for, an expectation from or some other interest in the enterprise.
Stakeholder	  <strong>Scope Notes: </strong> Examples: shareholders, users, government, suppliers, customers and the public
Stakenoider	customers and the public
	The policies, standards, plans and procedures, and organizational structures designed to provide reasonable assurance that enterprise objectives will be achieved and undesired events will be
	prevented or detected and corrected  prevented or detected and corrected  
System of internal control	The process of dividing a population into subpopulations with similar characteristics explicitly defined,
Sampling stratification	so that each sampling unit can belong to only one stratum
Secure Electronic Transaction (SET)	A standard that will ensure that credit card and associated payment order information travels safely and securely between the various involved parties on the Internet.
, , , , , , , , , , , , , , , , , , ,	
	Provides cryptographic security services for electronic messaging applications: authentication, message integrity and non-repudiation of origin (using digital signatures) and privacy and data
Secure Multipurpose Internet Mail Extensions (S/MIME)	security (using encryption) to provide a consistent way to send and receive MIME data. (RFC 2311)
Secure Shell (SSH)	Network protocol that uses cryptography to secure communication, remote command line login and remote command execution between two networked computers
Security of a Service (Secons)	The next generation of managed security services dedicated to the delivery, over the Internet, of
Security as a Service (SecaaS)	specialized information-security services.
	A deficiency or a combination of deficiencies, in internal control, that is less severe than a material weakness, yet important enough to merit attention by those responsible for
	oversight. />r/> <strong>Scope Notes: </strong> A material weakness is a significant deficiency
Significant deficiency	or a combination of significant deficiencies that results in more than a remote likelihood of an undesirable event(s) not being prevented or detected.
Single factor authentication (SFA)	Authentication process that requires only the user ID and password to grant access
Source routing specification	A transmission technique where the sender of a packet can specify the route that packet should follow through the network
Spam	Computer-generated messages sent as unsolicited advertising
	A targeted attack where social engineering techniques are used to masquerade as a trusted party to
Spear phishing	obtain sensitive information (personal, financial, intellectual property, etc.) or install malware.
	Results from failure of the application to appropriately validate input. When specially crafted user- controlled input consisting of SQL syntax is used without proper validation as part of SQL queries, it is
SOL injection	possible to glean information from the database in ways not envisaged during application design.
SQL injection	(MITRE)  A firewall architecture that tracks each connection traversing all interfaces of the firewall and makes
Stateful inspection Statutory requirements	sure they are valid.  Laws created by government institutions
Success requirements	The measure of the quantity of audit evidence; supports all material questions to the audit objective
Sufficient evidence	and scope. <strong>Scope Notes: </strong> See evidence
	Information is sufficient when evaluators have gathered enough of it to form a reasonable conclusion.
Sufficient information	For information to be sufficient, however, it must first be suitable. <strong>Scope Notes: </strong> Refer to COBIT 5 information quality goals
	Relevant (i.e., fit for its intended purpose), reliable (i.e., accurate, verifiable and from an objective
	source) and timely (i.e., produced and used in an appropriate time frame)information. /> <strong>Scope Notes: </strong> Refer to COBIT 5 information quality
Suitable information	goals
Supervisory control and data acquisition (SCADA)	Systems used to control and monitor industrial and manufacturing processes, and utility facilities
	A process to eliminate as many security risks as possible by removing all nonessential software
System hardening Secure Shell (SSH)	programs, protocols, services and utilities from the system  A secure, remote-access protocol used typically for system administration.
Secure Shell (SSH)	A secure, remote-access protocol used typically for system administration.

	A means of helping people to see overall structures, patterns and cycles in systems, rather than
	seeing only specific events or elements. It allows the identification of solutions that simultaneously
Systems thinking	address different problem areas and leverage improvement throughout the wider system.
	A symmetric cipher is an algorithm that encrypts data using a single key. In symmetric cryptographic
symmetric cipher	algorithms, a single key is used for encipherment (encrypting) and decipherment (decrypting).
Table look-up	Used to ensure that input data agree with predetermined criteria stored in a table.
Tape management system (TMS)	A system software tool that logs, monitors and directs computer tape usage.
	Wiring devices that may be inserted into communication links for use with analysis probes, local area
Taps	network (LAN) analyzers and intrusion detection security systems.
and uma	A network monitoring and data acquisition tool that performs filter translation, packet acquisition
Tcpdump	and packet display.
Technical infrastructure security	Refers to the security of the infrastructure that supports the enterprise resource planning (ERP) networking and telecommunications, operating systems, and databases.
Technology infrastructure	Technology, human resources (HR) and facilities that enable the processing and use of applications.
	A plan for the technology, human resources and facilities that enable the current and future
Technology infrastructure plan	processing and use of applications.
Telecommunications	Electronic communication by special devices over distances or around devices that preclude direct interpersonal exchange.
releconniumcations	interpersonal exchange.
eleprocessing	Using telecommunications facilities for handling and processing of computerized information.
	Network protocol used to enable remote access to a server computer.  
Telnet	Notes: Commands typed are run on the remote server.
Terminal Access Controller Access Control System Plus (TACACS+ )	An authentication protocol, often used by remote-access servers.
Terms of reference	A document that confirms a client's and an IS auditor's acceptance of a review assignment.
	Simulated transactions that can be used to test processing logic, computations and controls actually
	programmed in computer applications. Individual programs or an entire system can be
T+ d-+-	tested. tested. 
Test data Test generators	(ITFs) and Base Case System Evaluations (BCSEs).  Software used to create data to be used in the testing of computer programs.
rest generators	Programs that are tested and evaluated before approval into the production
	environment.  environment.   
	control moves, migrate from the test environment to the production environment and become
Test programs	production programs.
<u> </u>	
	Test types include: <li>Checklist testCopies of the business continuity plan (BCP) are distributed to</li>
	appropriate personnel for review <li>Structured walk throughIdentified key personnel walk</li>
	through the plan to ensure that the plan accurately reflects the enterprise's ability to recover
	successfully <li>Simulation testAll operational and support personnel are expected to perform a</li>
	simulated emergency as a practice session
Test types	site (hot, cold, warm or reciprocal) <li>Complete interruption testDisaster is replicated, normal production is shut down with real time recovery process</li>
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Testing	The examination of a sample from a population to estimate characteristics of the population.
	An independent audit of the control structure of a service organization, such as a service bureau, with
	the objective of providing assurance to the users of the service organization that the internal control
Third-party review	structure is adequate, effective and sound.
	Anything (e.g., object, substance, human) that is capable of acting against an asset in a manner that can result in harm. cyr/> <strong>Scope Notes: </strong> A potential cause of an unwanted
Threat	incident (ISO/IEC 13335)
THE COLUMN TO TH	Methods and things used to exploit a vulnerability. Strong>Scope Notes:
Threat agent	<
-	An evaluation of the type, scope and nature of events or actions that can result in adverse
	consequences; identification of the threats that exist against enterprise assets
	<pre> &gt;<strong>Scope Notes: </strong>The threat analysis usually defines the level of threat and</pre>
Threat analysis	the likelihood of it materializing.
Throat quart	Any event during which a threat element/actor acts against an asset in a manner that has the
Threat event	potential to directly result in harm.
	The quantity of useful work made by the system per unit of time. Throughput can be measured in
	instructions per second or some other unit of performance. When referring to a data transfer
Throughput	operation, throughput measures the useful data transfer rate and is
	A device that is used to authenticate a user, typically in addition to a username and
	password.  <strong>Scope Notes: </strong> A token is usually a device the size of a credit
Token	card that displays a pseudo random number that changes every few minutes.
	A type of local area network (LAN) ring topology in which a frame containing a specific format, called
	the token, is passed from one station to the next around the ring.   strong>Scope Notes:
	the token, is passed from one station to the next around the ring. strong>When a station receives the token, it is allowed to transmit. The station can send as many
	the token, is passed from one station to the next around the ring. strong>Scope Notes: When a station receives the token, it is allowed to transmit. The station can send as many frames as desired until a predefined time limit is reached. When a station either has no more frames
Taken ring tanalagy	the token, is passed from one station to the next around the ring. strong>Scope Notes: When a station receives the token, it is allowed to transmit. The station can send as many frames as desired until a predefined time limit is reached. When a station either has no more frames to send or reaches the time limit, it transmits the token. Token passing prevents data collisions that
Token ring topology	the token, is passed from one station to the next around the ring. When a station receives the token, it is allowed to transmit. The station can send as many frames as desired until a predefined time limit is reached. When a station either has no more frames to send or reaches the time limit, it transmits the token. Token passing prevents data collisions that can occur when two computers begin transmitting at the same time.
Token ring topology	the token, is passed from one station to the next around the ring. When a station receives the token, it is allowed to transmit. The station can send as many frames as desired until a predefined time limit is reached. When a station either has no more frames to send or reaches the time limit, it transmits the token. Token passing prevents data collisions that can occur when two computers begin transmitting at the same time.  The highest level of management in the enterprise, responsible for direction and control of the
Token ring topology  Top-level management	the token, is passed from one station to the next around the ring. <pre>strong&gt;When a station receives the token, it is allowed to transmit. The station can send as many frames as desired until a predefined time limit is reached. When a station either has no more frames to send or reaches the time limit, it transmits the token. Token passing prevents data collisions that can occur when two computers begin transmitting at the same time.</pre>
	the token, is passed from one station to the next around the ring. <pre>strong&gt;Scope Notes:</pre> <pre>strong&gt;When a station receives the token, it is allowed to transmit. The station can send as many frames as desired until a predefined time limit is reached. When a station either has no more frames to send or reaches the time limit, it transmits the token. Token passing prevents data collisions that can occur when two computers begin transmitting at the same time. The highest level of management in the enterprise, responsible for direction and control of the enterprise as a whole (such as director, general manager, partner, chief officer and executive</pre>

	Includes the original cost of the computer plus the cost of another and and
Total cost of ownership (TCO)	Includes the original cost of the computer plus the cost of: software, hardware and software upgrades, maintenance, technical support, training, and certain activities performed by users.
Total cost of ownership (100)	Business events or information grouped together because they have a single or similar
	purpose.  strong>Scope Notes: Typically, a transaction is applied to a calculation
Transaction	or event that then results in the updating of a holding or master file.
Transaction log	A manual or automated log of all updates to data files and databases.
	Also known as "automated remote journaling of redo logs," a data recovery strategy that is similar to
Transaction protection	electronic vaulting except that instead of transmitting several transaction batches daily, the archive
Transaction protection	logs are shipped as they are created.
	A connection-based Internet protocol that supports reliable data transfer
	connections. strong>Scope Notes: Packet data are verified using checksums and
Transmission Control Protocol (TCP)	retransmitted if they are missing or corrupted. The application plays no part in validating the transfer
	Provides the basis for the Internet; a set of communication protocols that encompass media access,
	packet transport, session communication, file transfer, electronic mail (e-mail), terminal emulation,
Transmission Control Protocol/Internet Protocol (TCP/IP)	remote file access and network management.
	Refers to an enterprise's openness about its activities and is based on the following concepts: <li>How</li>
	the mechanism functions is clear to those who are affected by or want to challenge governance
	decisions <li>A common vocabulary has been established</li> <li>Relevant information is readily</li>
	available > > <strong>Scope Notes: </strong> Transparency and stakeholder trust are
	directly related; the more transparency in the governance process, the more confidence in the
Transparency	governance.
Trap door	Unauthorized electronic exit, or doorway, out of an authorized computer program into a set of
nap uooi	malicious instructions or programs.  Purposefully hidden malicious or damaging code within an authorized computer
	program. program. cor/> <strong>Scope Notes: </strong> Unlike viruses, they do not replicate themselves,
Trojan horse	but they can be just as destructive to a single computer.
Trusted process	A process certified as supporting a security goal.
	A system that employs sufficient hardware and software assurance measures to allow their use for
Trusted system	processing a range of sensitive or classified information.
Turnel	
Tunnel	The paths that the encapsulated packets follow in an Internet virtual private network (VPN).
	Commonly used to bridge between incompatible hosts/routers or to provide encryption, a method by
	which one network protocol encapsulates another protocol within itself. strong>Scope
	Notes: When protocol A encapsulates protocol B, a protocol A header and optional
	tunneling headers are appended to the original protocol B packet. Protocol A then becomes the data
	link layer of protocol B. Examples of tunneling protocols include IPSec, Point-to-point Protocol Over
Tunneling	Ethernet (PPPoE) and Layer 2 Tunneling Protocol (L2TP).
Tuple	A row or record consisting of a set of attribute value pairs (column or field) in a relational data structure.
Тирге	A low-capacity transmission medium; a pair of small, insulated wires that are twisted around each
Twisted pair	other to minimize interference from other wires in the cable.
	The use of two independent mechanisms for authentication, (e.g., requiring a smart card and a
Two-factor authentication	password) typically the combination of something you know, are or have.
Tangible asset	Any assets that has physical form
Target Threat vector	Person or asset selected as the aim of an attack
Tilleat vector	The path or route used by the adversary to gain access to the target
	Chronological graphs where events related to an incident can be mapped to look for relationships in
	complex cases. complex cases.  complex cases. complex cases.
Timelines	visualization for presentation to management and other non-technical audiences.
	Produced and used in a time frame that makes it possible to prevent or detect control deficiencies
	before they become material to an enterprise.    Scope Notes: Refer to
Timely information	COBIT 5 information quality goals
	The maximum error in the population that professionals are willing to accept and still conclude that
	the test objective has been achieved. For substantive tests, tolerable error is related to professionals'
	judgement about materiality. In compliance tests, it is the maximum rate of deviation from a
	and the description of the state of the stat
Tolerable error	prescribed control procedure that the professionals are willing to accept
Tolerable error	prescribed control procedure that the professionals are willing to accept
Tolerable error	
Tolerable error	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or
Tolerable error	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246). //br/> <strong>Scope Notes: </strong> Transport Layer Security
Tolerable error	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246). //sr/>/strong>Scope Notes: Transport Layer Security (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS
Tolerable error	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246)dr/->strong>Scope Notes: Transport Layer Security (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data
	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246). //sr/>/strong>Scope Notes: Transport Layer Security (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS
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Transport Layer Security (TLS)	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246). //Fr/>-strong>Scope Notes: Transport Layer Security (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows  A block cipher created from the Data Encryption Standard (DES) cipher by using it three times
Transport Layer Security (TLS)	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246)s/r/>-s/trong>Scope Notes: Transport Layer Security (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows  A block cipher created from the Data Encryption Standard (DES) cipher by using it three times Used to protect traffic between different networks when traffic must travel through intermediate or
Transport Layer Security (TLS) Triple DES (3DES)	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246).sbr/> (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows  A block cipher created from the Data Encryption Standard (DES) cipher by using it three times Used to protect traffic between different networks when traffic must travel through intermediate or untrusted networks. Tunnel mode encapsulates the entire IP packet with and AH or ESP header and
Transport Layer Security (TLS) Triple DES (3DES)	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246). br/> (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows  A block cipher created from the Data Encryption Standard (DES) cipher by using it three times Used to protect traffic between different networks when traffic must travel through intermediate or untrusted networks. Tunnel mode encapsulates the entire IP packet with and AH or ESP header and an additional IP header.
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Transport Layer Security (TLS) Triple DES (3DES) Tunnel mode	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246). br/> (RFC 2246). composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows  A block cipher created from the Data Encryption Standard (DES) cipher by using it three times Used to protect traffic between different networks when traffic must travel through intermediate or untrusted networks. Tunnel mode encapsulates the entire IP packet with and AH or ESP header and an additional IP header.  A standard for representing characters as integers. c/strong>Unicode uses 16 bits, which means that it can represent more than 65,000 unique
Transport Layer Security (TLS)  Triple DES (3DES)  Tunnel mode  Unicode	A protocol that provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. (RFC 2246)dv/> (TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS Record Protocol provides connection security with some encryption method such as the Data Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows  A block cipher created from the Data Encryption Standard (DES) cipher by using it three times  Used to protect traffic between different networks when traffic must travel through intermediate or untrusted networks. Tunnel mode encapsulates the entire IP packet with and AH or ESP header and an additional IP header.  A standard for representing characters as integersdv/>-strong>Scope Notes:

	A testing technique that is used to test program logic within a particular program or
	module. cbr/> <strong>Scope Notes:</strong> The purpose of the test is to ensure that the internal operation of the program performs according to specification. It uses a set of test cases that
Unit testing	focus on the control structure of the procedural design.
Universal description, discovery and integration (UDDI)	A web-based version of the traditional telephone book's yellow and white pages enabling businesses to be publicly listed in promoting greater e-commerce activities.
Universal description, discovery and integration (UDDI)	An external bus standard that provides capabilities to transfer data at a rate of 12
	Mbps. strong>Scope Notes: A USB port can connect up to 127 peripheral
Universal Serial BUS (USB)	devices.
UNIX	A multi-user, multitasking operating system that is used widely as the master control program in workstations and especially servers.
	A host is referred to as untrustworthy because it cannot be protected by the firewall; therefore, hosts on trusted networks can place only limited trust in it.  <strong>Scope Notes: </strong> To
	the basic border firewall, add a host that resides on an untrusted network where the firewall cannot protect it. That host is minimally configured and carefully managed to be as secure as possible. The
Untrustworthy host	firewall is configured to require incoming and outgoing traffic to go through the untrustworthy host.  The process of electronically sending computerized information from one computer to another computer. <pre>computer. &lt;&gt;br/&gt;<strong>Scope Notes: </strong>When uploading, most often the transfer is</pre>
Uploading	from a smaller computer to a larger one.
User awareness	A training process in security-specific issues to reduce security problems; users are often the weakest link in the security chain.
	A connectionless Internet protocol that is designed for network efficiency and speed at the expense
	of reliability. <strong>Scope Notes: </strong> A data request by the client is served by sending packets without testing to verify whether they actually arrive at the destination, not whether
	they were corrupted in transit. It is up to the application to determine these factors and request
User Datagram Protocol (UDP)	retransmissions.
	Specialized system software used to perform particular computerized functions and routines that are
Litility programs	frequently required during normal processing. <a href="cs:strong">cs:strong</a> Scope Notes: Examples of utility programs include sorting, backing up and erasing data.
Utility programs	utility programs include sorting, backing up and erasing data.
	A sequence of commands input into a single file to automate a repetitive and specific task. <str></str> <strong>Scope Notes: </strong> The utility script is executed, either automatically or
Utility script	manually, to perform the task. In UNIX, these are known as shell scripts.
	Computer programs provided by a computer hardware manufacturer or software vendor and used in
	running the system. strong>Scope Notes: This technique can be used to
	examine processing activities; to test programs, system activities and operational procedures; to
Utility software Uncertainty	evaluate data file activity; and, to analyze job accounting data.  The difficulty of predicting an outcome due to limited knowledge of all components
Uniform resource locator (URL)	The string of characters that form a web address
	Can be a pop-up ad that impersonates a system dialog, an ad that impersonates a system warning, or
User interface impersonation	an ad that impersonates an application user interface in a mobile device.
User mode	Used for the execution of normal system activities  A process to create, modify, disable and delete user accounts and their profiles across IT
User provisioning	infrastructure and business applications
Vaccine	A program designed to detect computer viruses.
Val IT	The standard framework for enterprises to select and manage IT-related business investments and ITassets by means of investment programs such that they deliver the optimal value to the enterprise.  Based on COBIT.
Validity check	Programmed checking of data validity in accordance with predetermined criteria.
	The relative worth or importance of an investment for an enterprise, as perceived by its key
Value	stakeholders, expressed as total life cycle benefits net of related costs, adjusted for risk and (in the case of financial value) the time value of money.
value	A data communication network that adds processing services such as error correction, data
Value-added network (VAN)	translation and/or storage to the basic function of transporting data.
	A sampling technique used to estimate the average or total value of a population based on a sample;
Variable sampling	a statistical model used to project a quantitative characteristic, such as a monetary amount.
Verification  Virtual organizations	Checks that data are entered correctly.  Organization that has no official physical site presence and is made up of diverse, geographically dispersed or mobile employees.
-	· · ·
	A secure private network that uses the public telecommunications infrastructure to transmit data. -/strong>Scope Notes: -/strong>In contrast to a much more expensive system of
	owned or leased lines that can only be used by one company, VPNs are used by enterprises for both
	extranets and wide areas of intranets. Using encryption and authentication, a VPN encrypts all data
Virtual private network (VPN)	that pass between two Internet points, maintaining privacy and security.  The process of adding a "guest application" and data onto a "virtual server," recognizing that the
Virtualization	guest application will ultimately part company from this physical server.
	A program with the ability to reproduce by modifying other programs to include a copy of
	itself. kbr/> <strong>Scope Notes: </strong> A virus may contain destructive code that can move into multiple programs, data files or devices on a system and spread through multiple systems in a
Virus	into multiple programs, data files or devices on a system and spread through multiple systems in a network.
Virus signature file	The file of virus patterns that are compared with existing files to determine whether they are infected with a virus or worm.
	A system of storing messages in a private recording medium which allows the called party to later
Voice mail	retrieve the messages.

	Also called IP Telephony, Internet Telephony and Broadband Phone, a technology that makes it
	possible to have a voice conversation over the Internet or over any dedicated Internet Protocol (IP)
Voice-over Internet Protocol (VoIP)	network instead of over dedicated voice transmission lines.
Atological Military	A weakness in the design, implementation, operation or internal control of a process that could
Vulnerability Vulnerability analysis	expose the system to adverse threats from threat events  A process of identifying and classifying vulnerabilities.
vuineraumty analysis	Any event during which a material increase in vulnerability results. Note that this increase in
	vulnerability can result from changes in control conditions or from changes in threat
	capability/force.  <strong>Scope Notes: </strong> From Jones, J.; "FAIR Taxonomy," Risk
Vulnerability event	Management Insight, USA, 2008
	The main governance objective of an enterprise, achieved when the three underlying objectives (benefits realization, risk optimization and resource optimization) are all
	balanced br/> <strong>Scope Notes: </strong> COBIT 5 perspective
Value creation	
	Controls are placed at different system layers – hardware, operating system, application, database or
Vertical defense-in depth	user levels
	Logical segmentation of a LAN into different broadcast domains. Scope Notes:
	A VLAN is set up by configuring ports on a switch, so devices attached to these ports may
	communicate as if they were attached to the same physical network segment, although the devices
Virtual local area network (VLAN)	are located on different LAN segments. A VLAN is based on logical rather than physical connections.
	A system used to establish VPN tunnels and handle large numbers of simultaneous connections. This
Virtual private network (VPN) concentrator	system provides authentication, authorization and accounting services.
Volatile data	Data that changes frequently and can be lost when the system's power is shut down
Vulnerability scanning Walk-through	An automated process to proactively identify security weaknesses in a network or individual system
waik-through	A thorough demonstration or explanation that details each step of a process.
War dialer	Software packages that sequentially dial telephone numbers, recording any numbers that answer.
Warm site	Similar to a hot site but not fully equipped with all of the necessary hardware needed for recovery.
Waterfall development	Also known as traditional development, a procedure-focused development cycle with formal sign-off at the completion of each level.
Waterfall development	The business of providing the equipment and services required to host and maintain files for one or
	more web sites and provide fast Internet connections to those sites. <a href="https://www.estrong-Scope">https://www.estrong-Scope</a> Notes:
	Most hosting is "shared," which means that web sites of multiple companies are on the
Web hosting	same server to share/reduce costs.
	A visuable serves displaying information, presented through a web browser is a single visua
	A viewable screen displaying information, presented through a web browser in a single view, sometimes requiring the user to scroll to review the entire page.  <strong>Scope Notes:</strong>
	enterprise's products and services, or allow a customer to interact with the enterprise or third parties
Web page	that have contracted with the enterprise.
Web server	Using the client-server model and the World Wide Web's HyperText Transfer Protocol (HTTP), Web Server is a software program that serves web pages to users.
WED SELVE!	Server is a software program that serves web pages to users.
	A language formatted with extensible markup language (XML). Used to describe the capabilities of a
	web service as collections of communication endpoints capable of exchanging messages; WSDL is the
W. I. C D	language used by Universal Description, Discovery and Integration (UDDI). See also Universal
Web Services Description Language (WSDL)	Description, Discovery and Integration (UDDI).  Consists of one or more web pages that may originate at one or more web server
	computers. computers.
Web site	any order, as he/she would read a magazine.
	A testing approach that uses knowledge of a program/module's underlying implementation and code
White box testing	intervals to verify its expected behavior.
White box testing	intervals to verify its expected behavior.  A computer network connecting different remote locations that may range from short distances, such
White box testing Wide area network (WAN)	intervals to verify its expected behavior.
	intervals to verify its expected behavior.  A computer network connecting different remote locations that may range from short distances, such as a floor or building, to extremely long transmissions that encompass a large region or several
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Wide area network (WAN)	intervals to verify its expected behavior.  A computer network connecting different remote locations that may range from short distances, such as a floor or building, to extremely long transmissions that encompass a large region or several countries.  A data link layer device used for implementing various WAN technologies such as asynchronous transfer mode, point-to-point frame relay solutions, and integrated services digital network (ISDN). /strong>Scope Notes: WAN switches are typically associated with carrier networks providing dedicated WAN switching and router services to enterprises via T-1 or T-3
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Wired Equivalent Privacy (WEP)	A scheme that is part of the IEEE 802.11 wireless networking standard to secure IEEE 802.11 wireless networks (also known as Wi-Fi networks). br/> cbr/> cbr/> cstrong>Scope Notes: Because a wireless network broadcasts messages using radio, it is particularly susceptible to eavesdropping. WEP was intended to provide comparable confidentiality to a traditional wired network (in particular, it does not protect users of the network from each other), hence the name. Several serious weaknesses were identified by cryptanalysts, and WEP was superseded by Wi-Fi Protected Access (WPA) in 2003, and then by the full IEEE 802.11i standard (also known as WPA2) in 2004. Despite the weaknesses, WEP provides a level of security that can deter casual snooping.
	The 1772 Course of the course
	The ability of computing devices to communicate in a form to establish a local area network (LAN)
Wireless computing	without cabling infrastructure (wireless), and involves those technologies converging around IEEE 802.11 and 802.11b and radio band services used by mobile devices.
Wifeless Computing	602.11 and 602.110 and radio band services used by intuine devices.
Wiretapping	The practice of eavesdropping on information being transmitted over telecommunications links.
Vinctapping	A sub network of the Internet through which information is exchanged by text, graphics, audio and
World Wide Web (WWW)	video.
	An international consortium founded in 1994 of affiliates from public and private organizations
	involved with the Internet and the web.  <strong>Scope Notes: </strong> The W3C's primary
	mission is to promulgate open standards to further enhance the economic growth of Internet web
World Wide Web Consortium (W3C)	services globally.
	A programmed network attack in which a self-replicating program does not attach itself to programs,
Worm	but rather spreads independently of users' action.
Well-know ports	Well-known ports0 through 1023: Controlled and assigned by the Internet Assigned Numbers Authority (IANA), and on most systems can be used only by system (or root) processes or by programs executed by privileged users. The assigned ports use the first portion of the possible port numbers. Initially, these assigned ports were in the range 0-255. Currently, the range for assigned ports managed by the IANA has been expanded to the range 0-1023.
	Wireless security protocol that supports 802.11i encryption standards to provide greater security. This
	protocol uses Advanced Encryption Standards (AES) and Temporal Key Integrity Protocol (TKIP) for
Wi-Fi protected access II (WPA2)	stronger encryption.
Wireless local area network (WLAN)	Two or more systems networked using a wireless distribution method
Write blocker	A devices that allows the acquisition of information on a drive without creating the possibility of
Write protect	accidentally damaging the drive  The use of hardware or software to prevent data to be overwritten or deleted
X.25	A protocol for packet-switching networks.
, MES	A protocol for packet switching networks.
	An interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)
X.25 Interface	for terminals operating in the packet mode on some public data networks.
	A standard that defines how global directories should be structured.  
	X.500 directories are hierarchical with different levels for each category of information,
X.500	such as country, state and city.
Zero-day-exploit	A vulnerability that is exploited before the software creator/vendor is even aware of it's existence