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.
Accontable Use policy	A policy that establishes an agreement between users and the enterprise and defines for all parties' the ranges of use that are approved before gaining access to a network or the Internet.
Acceptable Use policy	The processes, rules and deployment mechanisms that control access to information systems,
Access control	resources and physical access to premises.
	An internal computerized table of access rules regarding the levels of computer access permitted to
	logon IDs and computer terminals. Scope Notes: Also referred to as
Access control list (ACL)	access control tables.
	An internal computerized table of access rules regarding the levels of computer access permitted to
Access control table	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. Scope Notes: Typically includes a route through the
	operating system, telecommunications software, selected application software and the access
Access path	control system.
	The permission or privileges granted to users, programs or workstations to create, change, delete or
Accord rights	view data and files within a system, as defined by rules established by data owners and the
Access rights Access server	information security policy. 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. Scope Notes: Within the IT Assurance Framework (ITAF), the
Accountable party	term "management" is equivalent to "accountable party."
A claracy ladery and (ACC)	A flag set in a packet to indicate to the sender that the previous packet sent was accepted correctly
Acknowledgment (ACK)	by the receiver without errors, or that the receiver is now ready to accept a transmission. A receivery strategy that involves two active sites, each capable of taking over the other's workload.
	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
	processing power to restore data from the other site and to accommodate the excess workload in
Active recovery site (Mirrored)	the 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. Scope Notes: Takes one of
	three forms: amending the environment, collecting more information or striking back against the
Active response	user.
Activity	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
	<br< td=""></br<>
Address space	number of bits in the machine address.
·	The method used to identify the location of a participant in a network. Scope
	Notes: Ideally, specifies where the participant is located rather than who they are (name)
Addressing	or how 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.

	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.
Analog	A transmission signal that varies continuously in amplitude and time and is generated in wave formation. strong>Scope Notes: Analog signals are used in telecommunications
	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
Analytical technique	areas that may require further or closer investigation. Scope Notes: 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.). strong>Scope Notes: An IS auditor should be aware that
	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: 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, applets expose the user's machine to risk if not properly controlled by the browser, which
Applot	should not allow an applet to access a machine's information without prior authorization of the
Applet	user. A computer program or set of programs that performs the processing of records for a specific
	function. Scope Notes: 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
Application acquisition review	will function in compliance with any applicable statutory provisions; the system is acquired in
Application acquisition review	compliance with the established system acquisition process. The process of establishing the effective design and operation of automated controls within an
Application benchmarking	application.
Application controls	The policies, procedures and activities designed to provide reasonable assurance that objectives 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. br/> strong>Evamples include project management, test plans and user assentance testing (LIAT)
Application implementation review	Examples include project management, test plans and user acceptance testing (UAT) 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. br/> 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.
Application maintenance review	and user acceptance testing (UAT) procedures.
	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. Scope Notes: Contrasts with systems programs, such as an
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. Scope Notes: A good API makes it easier to
	develop a program by providing all 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.
	A service that connects programs running on internal networks to services on exterior networks by
Application proxy	creating two connections, one from the requesting client and another to the destination service.
Application acquisit	Refers to the security aspects supported by the application, primarily with regard to the roles or
Application security	responsibilities and audit trails within the applications.
	Also known as managed service provider (MSP), it deploys, hosts and manages access to a packaged
Application consider (ASD)	application to multiple parties from a centrally managed facility. /strong>The applications are delivered ever networks on a subscription basis
Application service provider (ASP)	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. services. services.
A collection of the control of the collection of	statements and programming language can be analyzed. This technique includes program/system:
Application software tracing and mapping	mapping, tracing, snapshots, parallel simulations and code comparisons.
	An integrated set of computer programs designed to serve a particular function that has specific
Application system	input, processing and output activities. scrong>Scope Notes: 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 one element of the business system (e.g., technology), the relationships among them, and the
Arabitantura	
Architecture	manner in which they support enterprise objectives.
Arithmetic logic unit (ALU)	The area of the central processing unit that performs mathematical and analytical operations Advanced computer systems that can simulate human capabilities, such as analysis, based on a
Artificial intelligence	predetermined set of rules
Artificial intelligence	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
ASCII	code allows 256 characters to be represented.
AJCII	A program that takes as input a program written in assembly language and translates it into machine
Assembler	code or machine language
Assemblei	A low-level computer programming language which uses symbolic code and produces machine
Assambly Language	instructions.
Assembly Language	
	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
Assassment	opportunities for reducing the costs of poor quality, employee perceptions on quality aspects,
Assessment	proposals to senior management on policy, goals, etc.
Accet	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: 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. <br< td=""></br<>
	Examples may include financial, performance, compliance and system security
Assurance initiative	engagements.
	A cipher technique in which different cryptographic keys are used to encrypt and decrypt a message
Asymmetric key (public key)	<pre> Scope Notes: See public key encryption.</pre>
	A bink bound width law dalay a stabling and anything a book a law that allows interpreting of and
	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. br/> strong>Scope Notes:
	ATM is a protocol-independent transport mechanism. It allows high-speed data transfer
	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.
Asynchronous transmission	Character-at-a-time transmission.
	An augustantia which au IC auditania augustal to aith augustania augustania
	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:
	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.
Attest reporting engagement	Hence, an IS auditor would have to report directly on the subject matter rather than on an assertion.
Attitude	Way of thinking, behaving, feeling, etc.
	Method to select a portion of a population based on the presence or absence of a certain
Attribute sampling	characteristic
	Formal inspection and verification to check whether a standard or set of guidelines is being followed,
	records are accurate, or efficiency and effectiveness targets are being met.
Audit	Notes: May be carried out by internal or external groups.
	Performance measurement of service delivery including cost, timeliness and quality against agreed
Audit accountability	service levels.
	A statement of the position within the enterprise, including lines of reporting and the rights of
Audit authority	access.
	A document approved by those charged with governance that defines the purpose, authority and
	responsibility of the internal audit activity. Scope Notes: The charter
	should: - Establish the internal audit funtion's position within the enterprise
	Authorise access to records, personnel and physical properties relevant to the performance of IS
Audit charter	audit and assurance engagementsDefine the scope of audit function's activities
Audit evidence	The information used to support the audit opinion.
	The information used to support the addit opinion.
	Expert or decision support systems that can be used to assist IS auditors in the decision-making
	··
	Expert or decision support systems that can be used to assist IS auditors in the decision-making
Audit expert systems	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. The content of the decision of the decision of the content of the
	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. This technique includes automated risk analysis, systems software and control objectives
	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. This technique includes automated risk analysis, systems software and control objectives software packages.

	1. 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. />cbr/> Scope Notes: Includes the areas to be audited, the type of work planned, the high-level objectives and scope of the work, and topics such as budget, resource
Audit plan	allocation, schedule dates, type of report and its intended audience and other general aspects of the work >2. A high-level description of the audit work to be performed in a certain period of time.
Audit program	A step-by-step set of audit procedures and instructions that should be performed to complete an audit.
	The roles, scope and objectives documented in the service level agreement (SLA) between
Audit responsibility	management and audit. The risk of reaching an incorrect conclusion based upon audit findings. Notes: The three components of audit risk are: - Control risk -
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. A visible trail of evidence enabling one to trace information contained in statements or reports back
Audit trail	to the original input source
Audit universe	An inventory of audit areas that is compiled and maintained to identify areas for audit during the audit planning process. 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 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.
Auditable unit	Subjects, units or systems that are capable of being defined and evaluated. strong>Auditable units may include: Policies, procedures and practices li>Cost centers, profit centers and investment centers li>General ledger account balances li>Ii>Information systems (manual and computerized) li>Major contracts and programs li>Ii>Organizational 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>Financial statements
Authortication	1. The act of verifying identity, i.e., user, system. sy
Authentication Automated application controls	Controls that have been programmed and embedded within an application.
Availability	Ensuring timely and reliable access to and use of information Being acquainted with, mindful of, conscious of and well informed on a specific subject, which
Awareness	implies knowing and understanding a subject and acting accordingly.
	Governance ensures that enterprise objectives are achieved by evaluating stakeholder needs, conditions and options; setting direction through prioritization and decision making; and monitoring performance, compliance and progress against plans. In most enterprises, governance is the responsibility of the board of directors under the leadership of the chairperson.

	A path or route used by the adversary to gain access to the target (asset). hr/> Scope
Attack vector	Notes: 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: - Business risk (customer capability to pay, credit
	worthiness, market factors, etc.) - Contract risk (liability, price, type, penalties, etc.) - Project risk (resources, skill
	set, methodology, product stability, etc.) set />- Technology risk (solution, architecture,
	hardware and software infrastructure network, delivery channels, etc.). strong>Scope
Audit subject matter risk	Notes: See inherent risk
	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. /br/> Scope Notes: The types of opinions
	are: are: - Unqualified opinion: Notes no exceptions or none of the exceptions noted
	aggregate to a significant deficiency - Qualified opinion: Notes exceptions aggregated to
	a significant deficiency (but not a material weakness) - Adverse opinion: Notes one or
Auditor's opinion	more significant deficiencies aggregating to a material weakness A computer-generated simulation that adds enhancements to existing reality enabling a user to
	interact with reality in a more meaningful way. It is often accessed through mobile applications that
	blend digital enhancements with the real world while ensuring that the user can tell them apart
Augmented reality	easily.
Authenticity	Undisputed authorship
	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
Application containerization	each other.
	Most implementations of asymmetric ciphers combine a widely distributed public key and a closely
asymmetric cipher	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 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
Backup	originals 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
Padge	facility, as a symbol of authority (e.g., the police), or as a simple means of identification. Scope Notes: Also used in advertising and publicity.
Badge	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
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.
	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
Baseband	entire bandwidth of the transmission medium (e.g., coaxial cable) is utilized for a single channel.
	Correctness checks built into data processing systems and applied to batches of input data,
	particularly in the data preparation stage.
	main forms of batch controls: sequence control, which involves numbering the records in a batch consecutively so that the presence of each record can be confirmed; and control total, which is a
Batch control	total of the values in selected fields within the transactions.
	The processing of a group of transactions at the same time. strong>Scope Notes:
Batch processing	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. Scope
	A test that has been designed to evaluate the performance of a system. 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. Scope Notes:
Benchmarking	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.
Benefit	In business, an outcome whose nature and value (expressed in various ways) are considered advantageous by an enterprise.
Best practice	A proven activity or process that has been successfully used by multiple enterprises.
Binary code	A code whose representation is limited to 0 and 1.
Biometric locks	Door and entry locks that are activated by such biometric features as voice, eye retina, fingerprint or signature.
DIGHTCH TOURS	A security technique that verifies an individual's identity by analyzing a unique physical attribute,
Biometrics	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:
Bit-stream image	Such backups exactly replicate all sectors on a given storage device including all files and 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 segments. segme
Broadband	modem.
	Device that performs the functions of both a bridge and a router. 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. Also, 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
Brouter	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
Browser	available on the Internet; also, that permits multimedia (graphics) applications on the World Wide Web.
Brute force	A class of algorithms that repeatedly try all possible combinations until a solution is found.
Brute force attack	Repeatedly trying all possible combinations of passwords or encryption keys until the correct one is found.
Budget	Estimated cost and revenue amounts for a given range of periods and set of books. books. same set of books.
	A mathematical expression used to calculate budget amounts based on actual results, other budget amounts and statistics. strong>Scope Notes: With budget formulas, budgets
Budget formula	using complex equations, calculations and allocations can be automatically created. A group of budgets linked together at different levels such that the budgeting authority of a lower-
Budget hierarchy	level budget is controlled by an upper-level budget.
Budget organization	An entity (department, cost center, division or other group) responsible for entering and maintaining budget data.
	Memory reserved to temporarily hold data to offset differences between the operating speeds of different devices, such as a printer and a computer. strong>Scope Notes: In a program, buffers are reserved areas of random access memory (RAM) that hold data while they are
Buffer	being processed.
	Occurs when a program or process tries to store more data in a buffer (temporary data storage area) than it was intended to hold.
Buffer overflow	example, damage the user's files, change data, or disclose confidential information. Buffer overflow attacks are said to have arisen because the C programming language supplied the framework, and poor programming practices supplied the vulnerability. A data recovery strategy that includes a recovery from complete backups that are physically shipped
Bulk data transfer	offsite once a week. strong>Scope Notes: Specifically, logs are batched electronically several times daily, and then loaded into a tape library located at the same facility as the planned recovery.
	Common path or channel between hardware devices. be located between components internal to a computer or between external computers in a
Bus	communication network. All devices (nodes) are linked along one communication line where transmissions are received by all attached nodes. strong>Scope Notes: This architecture is reliable in very small 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
Bus configuration	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 configuration.
bus 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
Business balanced scorecard	(lead) indicators, combined to rate the enterprise. Documentation of the rationale for making a business investment, used both to support a business
Business case	decision on whether to proceed with the investment and as an operational tool to support management of the investment through its full economic life cycle
Business continuity plan (BCP)	A plan used by an enterprise to respond to disruption of critical business processes. Depends on the contingency plan for restoration of critical systems.
Business control	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 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.
Business goal	The translation of the enterprise's mission from a statement of intention into performance targets 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. 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 and the supporting system. Scope Notes: This process also
	includes addressing: li>lncome loss li>Unexpected expenseli>Legal issues (regulatory
Business impact analysis/assessment (BIA)	compliance or contractual) Interdependent processes Loss of public reputation or public confidence
business impact analysis/assessment (bird)	Any event, whether anticipated (i.e., public service strike) or unanticipated (i.e., blackout) that
Business interruption	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 Model for Information Security (BMIS)	business management.
Business abiastics	A fourth and according to the book and a size to the size of the s
Business objective	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
Business process	product or service to a customer.
	Controls over the business processes that are supported by the enterprise resource planning system
Business process integrity	(ERP). The individual responsible for identifying process requirements, approving process design and
	managing process performance. strong>Scope Notes: Must be at an
	appropriately high level in the enterprise and have authority to commit resources to process-specific
Business process owner	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
Business process reengineering (BPR)	conditions, while yielding material cost savings.
Business risk	A probable situation with uncertain frequency and magnitude of loss (or gain).
Business service provider (BSP)	An application service provider (ASP) that also provides outsourcing of business processes such as payment processing, sales order processing and application development.
business service provider (bsi)	The individual accountable for delivering the benefits and value of an IT-enabled business
Business sponsor	investment program to the enterprise.
	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. strong>Scope Notes: The contract's general terms should be
	communicated to the other party and specifically approved. Some companies require the other
	party 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
Business-to-business	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. Scope Notes: Comprehensive legislation includes: Regarding contracts established outside the merchant's property (such as the right to
	end the contract with full refund or the return policy for goods)
	(such as rules that establish how a contract should be written, specific clauses and the need to
	transmit to the consumer and approve it) 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
Business-to-consumer	data recorded)
	Refers to the processes by which enterprises conduct business electronically with their customers
Business-to-consumer e-commerce (B2C)	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 Scope Notes:
Baseline architecture	COBIT 5 and COBIT 2019 perspective
baseline architecture	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 scope Notes: COBIT 5 and
Benefits realization	COBIT 2019 perspective
	Preventing, mitigating and recovering from disruption Scope Notes:
	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. br/> COBIT 5 and COBIT 2019
Business continuity	perspective
	The policies, procedures, practices and organizational structures designed to provide reasonable
	assurance that a business process will achieve its objectives. <br< td=""></br<>
Business process control	COBIT 5 and COBIT 2019 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
Block cipher	System heavily fortified against attacks 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
	compromised computers that can be simultaneously controlled to launch large-scale attacks such as
Botnet	a denial-of-service attack on selected victims
botnet	d definal of service detack on serected victims
Boundary	Logical and physical controls to define a perimeter between the organization and the outside world
	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
	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
	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

	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
Disababata	A distributed, protected journaling and ledger system. Use of blockchain technologies can enable
Blockchain	anything from digital currency (e.g. Bitcoin) to any other value-bearning transaction. 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	Base64 Encoding is a binary-to-text encoding process that converts long bit sequences into alphanumeric text.
	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
Cadbury	the Cadbury Report.
	An aptitude, competency or resource that an enterprise may possess or require at an enterprise, business function or individual level that has the potential, or is required, to contribute to a business
Capability	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. Software Engineering Institute (SEI), is a model used by many enterprises to identify best practices useful in helping them assess and increase the maturity of their software development
	processes. Scope Notes: CMM ranks software development enterprises 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
Capability Maturity Model (CMM)	enterprise can follow to gain better control over its software development process.
Capacity stress testing	Testing an application with large quantities of data to evaluate its performance during peak periods. Also called volume testing.
cupacity stress 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. Scope Notes: If built correctly, card swipes act as a preventive control over physical access to those sensitive locations. After a card has been swiped, the
	application attached to the physical card swipe device logs all card users who try to access the
Card swipe	secured location. The card swipe device prevents unauthorized access and logs all attempts to enter the secured location.
	A vacuum tube that displays data by means of an electron beam striking the screen, which is coated
Cathode ray tube (CRT)	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.
Contificate value estion list (CDL)	An instrument for checking the continued validity of the certificates for which the certification authority (CA) has responsibility. br/> strong>Scope Notes: The CRL details digital certificates that are no longer valid. The time gap between two updates is very critical and is also a
Certificate revocation list (CRL)	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). Scope Notes: In terms of the controls that an enterprise observes,
	the method it uses to validate the authenticity of certificate applicants and the CA's expectations of
Certification practice statement (CPS)	how its certificates may be used. 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. law.
Chain of custody	record of custody to prove that the evidence was at all times under strict control and not subject to tampering.
Chair of custouy	
	A method of user authentication that is carried out through use of the Challenge Handshake Authentication Protocol (CHAP). Scope Notes: 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
Challenge/response token	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.

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	1. CODIT 2013. THE CUITCHE ICCIDENT OF CODIT DUNGS OF AND INTEGRACES THOSE CHAIT 23 YEARS OF
	developments in the field of enterprise governance of information and technology (I&T), not only
	incorporating new insights from science, but also operationalizing these insights as practices. COBIT
	is a broad and comprehensive I&T governance and management framework and continues to
	establish itself as a generally accepted framework for I&T governance. strong>Scope
	Notes: Earlier versions of COBIT focused on IT, whereas COBIT 2019 focuses on
	information and technology aimed at the whole enterprise, recognizing that I&T
	has become crucial in the support, sustainability and growth of enterprises. (See
	www.isaca.org/cobit for more information.) <2. COBIT 5: Formerly known as Control
	Objectives for Information and related Technology (COBIT); with this iteration used only as the
	acronym. A complete, internationally accepted framework for governing and managing enterprise
	information and technology (IT) that supports enterprise 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 Scope Notes: Earlier versions
	of 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. <3.
	COBIT 4.1 and earlier: Formally known as Control Objectives for Information and related Technology
	(COBIT). A 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. Scope Notes: Adoption and
	use of the COBIT framework are supported by guidance for executives and management (Board
COBIT	Briefing on IT Governance, 2nd Edition), IT governance implementers (COBIT Quickstart, 2nd Edition;
СоСо	Criteria of Control, published by the Canadian Institute of Chartered Accountants in 1995.
	Originated as a biological term, refers to the way two or more ecologically interdependent species
	become intertwined over time. 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.
	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. <pre>Str/>Scope Notes: Named after the Committee Chairs, these</pre>
	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 to address the financial aspects of corporate governance, directors' remuneration and the
Combined Code on Corporate Governance	implementation of the Cadbury 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. br/>br/>

Compiler	A program that translates programming language (source code) into machine executable instructions (object code).
Computation Automated Dublic Touring test to tall Computation and Humania Amout (CARTCHA)	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 shallenging to read forts.
Completely Automated Public Touring test to tell Computers and Humans Apart (CAPTCHA) Completely connected (mesh) configuration	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).
Completeness check	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
Compliance testing	their operation during the audit period.
	A general term that is used to mean one part of something more complex. strong>Scope Notes: 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.
Component	However, the goal of component-based development is to ultimately use as many pre-developed, pretested components as possible. An audit designed to determine the accuracy of financial records as well as to evaluate the internal
Comprehensive audit Computationally greedy	controls of a function or department. Requiring a great deal of computing power; processor intensive.
Computer emergency response team (CERT)	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 to information systems.
computer emergency response team (cent)	
Computer forensics Computer sequence checking	The application of the scientific method to digital media to establish factual information for judicial review. scrops>cope Notes: This process often involves investigating computer 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 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 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.
Computer server	Servers typically run network operating systems. <2. A computer that provides services to another computer (the client).
Computer aided software engineering (CASE)	The use of software packages that aid in the development of all phases of an information system. system. system. system. documentation are provided. Changes introduced in one CASE chart will update all other related charts automatically. CASE can be installed on a microcomputer for easy access.
Computer-aided software engineering (CASE)	Any automated audit technique, such as generalized audit software (GAS), test data generators,
Concurrency control	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 discarded when undoing aborted transactions.
Concurrency control	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. 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. Scope Notes: May vary widely in complexity, size and type, from an entire system (including all hardware, software and documentation) to a single
Configuration item (CI) Configuration management	module or a minor hardware component 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. 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)
	The overall set of internal and external factors that might influence or determine how an enterprise, entity, process or individual acts -strong>Scope Notes: Context includes: -technology context (technological factors that affect an enterprise's ability to extract value from data) -data context (data accuracy, availability, currency and quality) -data context (data accuracy, availability, currency and quality) -organizational and cultural context (political factors and whether the enterprise prefers data to intuition) -strategic context (strategic objectives of the enterprise)
Context	 COBIT 5 and COBIT 2019 perspective
Contingency plan	A plan used by an enterprise or business unit to respond to a specific systems failure or disruption.

Contingency planning	Process of developing advance arrangements and procedures that enable an enterprise to respond to an event that could occur by chance or unforeseen circumstances.
Contingency planning	Preventing, mitigating and recovering from disruption. strong>Scope Notes:
	The terms "business resumption planning," "disaster recovery planning" and "contingency
Continuity	planning" also may be used in this context; they all concentrate on the recovery aspects of continuity.
Continuous auditing approach	This approach allows IS auditors to monitor system reliability on a continuous basis and to gather selective audit evidence through the computer.
Continuous availability	Nonstop service, with no lapse in service; the highest level of service in which no downtime is allowed.
Continuous availability	anowed.
	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. 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 Control center	scientific method and how to learn to see and eliminate waste in business processes. Hosts the recovery meetings where disaster recovery operations are managed.
Control Center	A set of fundamental controls that facilitates the discharge of business process owner
Control framework	responsibilities to prevent financial or information loss in an enterprise.
Control group	Members of the operations area who are responsible for the collection, logging and submission of input for the various user groups.
	A statement of the desired result or purpose to be achieved by implementing control procedures in
Control objective	a particular process.
	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
Control Objectives for Enterprise Governance	enterprise governance, published by the Information Systems Audit and Control Foundation in 1999. The boundary defining the scope of control authority for an entity. Strong>Scope Notes:
Control perimeter	control it in response to an attack.
Control practice	Key control mechanism that supports the achievement of control objectives through responsible use 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 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
Control weakness	not reduce to a relatively low level the risk that misstatements caused by illegal acts or irregularities may occur and not be detected by the related control procedures.
Control weakness	A message kept in the web browser for the purpose of identifying users and possibly preparing
	customized web pages for them. Scope Notes: The first time a cookie is
	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
Cookie	that validate the user identity and enable restricted web services). An exchange rate that can be used optionally to perform foreign currency conversion. The corporate
	exchange rate is generally a standard market rate determined by senior financial management for
Corporate exchange rate	use throughout 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. Responsible for coordinating the planning, development, implementation, maintenance and
Corporate security officer (CSO)	monitoring of the information security program.
	monitoring of the information security program.
Corrective central	
Corrective control	Designed to correct errors, omissions and unauthorized uses and intrusions, once they are detected.
	Designed to correct errors, omissions and unauthorized uses and intrusions, once they are detected. Committee of Sponsoring Organizations of the Treadway Commission. Notes: COSO's "Internal ControlIntegrated Framework" is an internationally accepted
COSO	Designed to correct errors, omissions and unauthorized uses and intrusions, once they are detected. Committee of Sponsoring Organizations of the Treadway Commission. Strong>Coso's "Internal ControlIntegrated Framework" is an internationally accepted standard for corporate governance. See www.coso.org.
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	To "break into" or "get around" a software program. Scope Notes: For
Crack	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.
CIACK	In vulnerability analysis, passive monitoring approaches in which passwords or other access
Credentialed analysis	credentials are required. Scope Notes: Usually involves accessing a system data object
	The standards and benchmarks used to measure and present the subject matter and against which an 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
Critical infrastructure	of 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
Critical success factor (CSF)	processes. An analysis to evaluate resources or business functions to identify their importance to the
Criticality analysis	enterprise, 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 it has created. br/> Scope Notes: Often refers to certificates issued to each
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
Cross-site request forgery (CSRF)	user that the web site trusts (also known as a one-click attack or session riding); acronym pronounced "sea-surf".
Cryptography	The art of designing, analyzing and attacking cryptographic schemes.
	A way to identify, acquire and retain customers. CRM is also an industry term for software solutions
Customer relationship management (CRM)	that help an enterprise manage customer relationships in an organized manner. An investigator of activities related to computer crime.
Cybercop	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 their decisions.
Code of ethics	COBIT 5 and COBIT 2019 perspective
	The ability to perform a specific task, action or function successfully <
Competence	COBIT 5 and COBIT 2019 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: Also used as a synonym for safeguard or
Control	countermeasure. See also Internal control. A pattern of behaviors, beliefs, assumptions, attitudes and ways of doing
Culture	things strong>Scope Notes: COBIT 5 and COBIT 2019 perspective
Chief Information Security Officer (CISO)	The person in charge of information security within the enterprise
Chief Security Officer (CSO) Cipher	The person usually responsible for all security matters both physical and digital in an enterprise An algorithm to perform encryption
Сірпеі	Convenient, on-demand network access to a shared pool of resources that can be rapidly
Cloud computing	provisioned and released with minimal management effort or service provider interaction
Collision	The situation that occurs when two or more demands are made simultaneously on equipment that can handle only one at any given instant (Federal Standard 1037C)
Comston	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
Comportmentalization	A process for protecting very-high value assets or in environments where trust is an issue. Access to
Compartmentalization	an asset requires two or more processes, controls or individuals. Adherence to, and the ability to demonstrate adherence to, mandated requirements defined by laws
	and regulations, as well as voluntary requirements resulting from contractual obligations and
Compliance	internal policies
Compliance documents	Policies, standard and procedures that document the actions that are required or prohibited. Violations may be subject to disciplinary actions.
compliance documents	A new model in which emerging technologies are first embraced by the consumer market and later
Consumerization	spread to the business
Containment	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
Criticality	function is not available
	A type of injection, in which malicious scripts are injected into otherwise benign and trusted web
	sites. Scope Notes: Cross-site scripting (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 anywhere a web application uses input from a user within the output it generates without
Cross-site scripting (XSS)	validating or encoding it. (OWASP)
Cryptosystem	A pair of algorithms that take a key and convert plaintext to ciphertext and back Activities conducted in the name of security, business, politics or technology to find information that
Cyberespionage	ought to remain secret. It is not inherently military.
C. the area assurity.	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. br/>strong>Scope Notes: The security
	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.
Cyberwarfare	Activities supported by military organizations with the purpose to threat the survival and well-being of society/foreign entity
CACS	http://www.isaca.org/ecommerce/Pages/north-america-cacs.aspx
	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.
	The determination of the extent of damage that is necessary to provide for an estimation of the
Damage evaluation	recovery time frame and the potential loss to the enterprise.
Dashboard	A tool for setting expectations for an enterprise at each level of responsibility and continuous monitoring of the performance against set targets.
Dustibourd	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. strong>Scope Notes: Most ERP systems provide opportunities for
Data analysis	extraction and analysis of data (some with built-in tools) through the use of tools developed by third parties that interface with the ERP systems.
Data analysis	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
	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
	generated. Scope Notes: May be a stand-alone information system
Data dictionary	used for management or documentation purposes, or it may control the operation of a database
Data diddling	Changing data with malicious intent before or during input into the system.
	An algorithm for encoding binary data. 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 Standard (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.
Data laakaga	Siphoning out or leaking information by dumping computer files or stealing computer reports and
Data leakage	tapes. A structured process for organizing data into tables in such a way that it preserves the relationships
Data normalization	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. Scope Notes: Data warehouse software often includes
Data warehouse	sophisticated comparison and hashing techniques for fast searches as well as for advanced filtering.
Database	A stored collection of related data needed by enterprises and individuals to meet their information processing and retrieval requirements.
	An individual or department responsible for the security and information classification of the shared
	data stored on a database system. This responsibility includes the design, definition and
Database administrator (DBA)	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
	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 replication	geographically users are distributed widely, replication is often the most efficient method of database access.
Database replication	database access.
Database replication 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. A packet (encapsulated with a frame containing information), that is transmitted in a packet-
	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. A packet (encapsulated with a frame containing information), that is transmitted in a packet-switching network from source to destination.
Database specifications Datagram	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. A packet (encapsulated with a frame containing information), that is transmitted in a packet-switching network from source to destination. Focuses on providing ad hoc reporting for users by developing a suitable accessible database of
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. A packet (encapsulated with a frame containing information), that is transmitted in a packet-switching network from source to destination.

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.
Decryption key	A digital piece of information used to recover plaintext from the corresponding ciphertext by 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 accounts, these are accounts that are provided by the operating system vendor (e.g., root in
Default	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. 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.
	The application of variable levels of alternating current for the purpose of demagnetizing magnetic
	recording media. Scope Notes: The process involves increasing the alternating current field gradually from zero to some maximum value and back to zero, leaving a very
Degauss	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. A fact determined by measuring and analyzing data about a population; it relies heavily on survey
Demographic	research and census data. An assault on a service from a single source that floods it with so many requests that it becomes
Denial-of-service attack (DoS)	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.

	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). 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.
Diameter and the second	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. <a administrative="" and="" boxes="" contacts.<="" href="https://www.nc.edu/britzen.com/britze</td></tr><tr><td></td><td>that a subject with a certain access permission is capable of passing that permission (perhaps</td></tr><tr><td>Discretionary access control (DAC)</td><td>indirectly) on to any other subject.</td></tr><tr><td></td><td>The practice of duplicating data in separate volumes on two hard disks to make storage more fault</td></tr><tr><td></td><td>tolerant. Mirroring provides data protection in the case of disk failure because data are constantly</td></tr><tr><td>Disk mirroring</td><td>updated to both disks.</td></tr><tr><td></td><td>A workstation or PC on a network that does not have its own disk, but instead stores files on a</td></tr><tr><td>Diskless workstations</td><td>network file server.</td></tr><tr><td></td><td>A system of computers connected together by a communication network.
 Strong Scope</td></tr><tr><td></td><td>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</td></tr><tr><td>Distributed data processing network</td><td>files.</td></tr><tr><td>Distributed data processing network Distributed denial-of-service attack (DDoS)</td><td>A denial-of-service (DoS) assault from multiple sources.</td></tr><tr><td></td><td>The method of routing traffic through split cable facilities or duplicate cable</td></tr><tr><td></td><td>facilities.

Scope Notes: This can be accomplished with different and/or</td></tr><tr><td></td><td>duplicate cable sheaths. If different cable sheaths are used, the cable may be in the same conduit</td></tr><tr><td></td><td>and, therefore, subject to the same interruptions as the cable it is backing up. The communication</td></tr><tr><td></td><td>service subscriber can duplicate the facilities by having alternate routes, although the entrance to</td></tr><tr><td></td><td>and from the customer premises may be in the same conduit. The subscriber can obtain diverse</td></tr><tr><td></td><td>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</td></tr><tr><td></td><td>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</td></tr><tr><td></td><td>media. These cable facilities are usually located in the ground or basement. Ground-based facilities</td></tr><tr><td></td><td>are at great risk due to the aging infrastructures of cities. In addition, cable-based facilities usually</td></tr><tr><td></td><td>share room with mechanical and electrical systems that can impose great risk due to human error</td></tr><tr><td>Diverse routing</td><td>and disastrous events.</td></tr><tr><td></td><td>In COBIT, the grouping of control objectives into four logical stages in the life cycle of investments</td></tr><tr><td>Domain</td><td>involving IT (Plan and Organise, Acquire and Implement, Deliver and Support, and Monitor and</td></tr><tr><td>Domain</td><td>Evaluate). A hierarchical database that is distributed across the Internet that allows names to be resolved into</td></tr><tr><td>Domain name system (DNS)</td><td>IP addresses (and vice versa) to locate services such as web and e-mail servers.</td></tr><tr><td></td><td>Corrupts the table of an Internet server's DNS, replacing an Internet address with the address of</td></tr><tr><td></td><td>another vagrant or scoundrel address.
 scope Notes: lf a web user looks</td></tr><tr><td></td><td>for the page with that address, the request is redirected by the scoundrel entry in the table to a</td></tr><tr><td></td><td>different address. Cache poisoning differs from another form of DNS poisoning in which the attacker</td></tr><tr><td></td><td>spoofs valid e-mail accounts and floods the " in"="" of="" td="" technical="">
	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 as the user visits successive pages on the site. It is also called DNS cache poisoning or cache
Domain name system (DNS) poisoning	poisoning.
Domain name system (DNS) poisoning	Integrates the management of tactics (financial budgets and monthly reviews) and the management
	of strategy. strong>Scope Notes: A reporting system, based on the balanced
	scorecard (BSC), that allows process to be monitored against strategy and corrective actions to be
Double-loop step	taken as required
Downloading	The act of transferring computerized information from one computer to another computer.
	A report that identifies the elapsed time when a computer is not operating correctly because of
Downtime report	machine failure.
Driver (value and rick)	A driver includes an event or other activity that results in the identification of an assurance/audit
Driver (value and risk)	need.
	Refers to a sprinkler system that does not have water in the pipes during idle usage, unlike a fully
	charged fire extinguisher system that has water in the pipes at all times. strong>Scope
	Notes: The dry-pipe system is activated at the time of the fire alarm and water is emitted
Dry-pipe fire extinguisher system	to the pipes from a water reservoir for discharge to the location of the fire.
	A procedure that uses two or more entities (usually persons) operating in concert to protect a
Dual control	system resource so that no single entity acting alone can access that resource.
Dua sama	
Due care	The level of care expected from a reasonable person of similar competency under similar conditions.
Due diligence	The performance of those actions that are generally regarded as prudent, responsible and necessary to conduct a thorough and objective investigation, review and/or analysis.
Due diligence	Diligence that a person, who possesses a special skill, would exercise under a given set of
Due professional care	circumstances.
	A display terminal without processing capability. Scope Notes: Dumb
	terminals are dependent on the main computer for processing. All entered data are accepted
Dumb terminal	without further editing or validation.

Duplex routing	The method or communication mode of routing data over the communication network.
Dynamic analysis	Analysis that is performed in a real-time or continuous form.
	A protocol used by networked computers (clients) to obtain IP addresses and other parameters such as the default gateway, subnet mask and IP addresses of domain name system (DNS) servers from a
	DHCP server. Strip delauit gateway, subflet mask and in addresses of domain frame system (DNS) servers from a 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
Disposario Host Configuration Daylord (DUCD)	assignment is valid [its lease has not expired]). Thus, IP address pool management is done by the
Dynamic Host Configuration Protocol (DHCP)	server and not by a human network administrator. The variable allocation of central processing unit (CPU) processing and memory to multiple
Dynamic partitioning	applications and data on a server.
Data retention	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 untrusted network. network. Scope Notes: A DMZ is typically used to house systems such
Demilitarized zone (DMZ)	as web servers that must be accessible from both internal networks and the Internet.
	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.
Detection risk	Notes: . Scope Notes: . Scope Notes: See audit risk
Detection risk	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
Digital certificate	applying a one-way hash function.
Digital forensics	The process of identifying, preserving, analyzing and presenting digital evidence in a manner that is legally acceptable in any legal proceedings
	Tunneling over DNS to gain network access. Lower-level attack vector for simple to complex data
Domain name system (DNS) exfiltration	transmission, slow but difficult to detect.
Dynamic norts	Dynamic and/or private ports49152 through 65535: Not listed by IANA because of their dynamic
Dynamic ports	nature. Detects line errors by retransmitting data back to the sending device for comparison with the
Echo checks	original transmission.
	The processes by which enterprises conduct business electronically with their customers, suppliers
	and other external business partners, using the Internet as an enabling technology. Scope Notes: E-commerce encompasses both business-to-
	business (B2B) and business-to-consumer (B2C) e-commerce models, but does not include existing
	non-Internet e-commerce methods based on private networks such as electronic data interchange
E-commerce E-commerce	(EDI) and Society for Worldwide Interbank Financial Telecommunication (SWIFT).
	Technique developed by G. Bennett Stewart III and registered by the consulting firm of Stern,
	Stewart, in which the performance of the corporate capital base (including depreciated investments
	such as training, research and development) as well as more traditional capital investments such as
Economic value add (EVA)	physical property and equipment are measured against what shareholders could earn elsewhere.
Edit control	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
Editing	errors.
	The electronic transmission of transactions (information) between two enterprises. EDI promotes a more efficient paperless environment. EDI transmissions can replace the use of standard documents,
Electronic data interchange (EDI)	including invoices or purchase orders.
	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. content. <b< td=""></b<>
	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,
Electronic document	many countries in defining and disciplining the use of such instruments have issued regulations defining specifics, such as the electronic signature and data interchange formats.
Electronic funds transfer (EFT)	The exchange of money via telecommunications. EFT refers to any financial transaction that
	originates at a terminal and transfers a sum of money from one account to another.
	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
Electronic signature	signatures.
	A data recovery strategy that allows enterprises to recover data within hours after a
	disaster. strong>Scope Notes: Typically used for batch/journal updates to
Electronic vaulting	critical 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 (EANA)	of real-time processing. Reporting may be real-time online or may use store and forward methods.
Embedded audit module (EAM)	Also known as integrated test facility or continuous auditing module. The technique used by layered protocols in which a lower-layer protocol accepts a message from a
Encapsulation (objects)	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.
	The ability of end users to design and implement their own information system utilizing computer
End-user computing	software products.
Engagement letter	Formal document which defines an IS auditor's responsibility, authority and accountability for a specific assignment.
Linguigement letter	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.
Enterprise	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.
Effective distinctions (EA) for th	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
Enterprise governance	managed appropriately and verifying that the enterprise's resources are used responsibly.
	Enterprise governance of information and technology (EGIT) is concerned with value delivery from digital transformation and the mitigation of business risk that results from digital transformation.
	Three main outcomes can be expected after successful adoption of EGIT: benefits realization, risk
Enterprise governance of information and technology (EGIT)	optimization and resource optimization.
	The discipline by which an enterprise in any industry assesses, controls, exploits, finances and
Fatamarias viels magazana ent (FDNA)	monitors risk from all sources for the purpose of increasing the enterprise's short- and long-term value to its stakeholders.
Enterprise risk management (ERM)	value to its stakerioliders.
	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,
EDD (enterprise recourse planning) system	and produce and access information in a real-time environment br/> strong>Scope Notes:
ERP (enterprise resource planning) system	Examples of ERP include SAP, Oracle Financials and J.D. Edwards. A deviation from accuracy or correctness. br/> Scope Notes: As it relates to
	audit work, errors may relate to control deviations (compliance testing) or misstatements
Error	(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. Scope Notes: As it relates to a cryptographic key, an escrow agent is the agency or enterprise charged with the responsibility for safeguarding the
Escrow agent	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.
	occurrence of the escrow agreement, the escrow agent will deliver the asset to the proper recipient;
	otherwise 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 licensee if the licensor (e.g., seller or contractor) files for bankruptcy or otherwise fails to
Escrow agreement	maintain and update the software as promised in the software license agreement.
	A popular network protocol and cabling scheme that uses a bus topology and carrier sense multiple
	access/collision detection (CSMA/CD) to prevent network failures or collisions when two devices try
Ethernet Event	to access the network at the same time. Something that happens at a specific place and/or time
LVEIL	For the purpose of IT risk management, one of three possible sorts of events: threat event, loss
	event and vulnerability event. Scope Notes: Being able to consistently
	and effectively differentiate the different types of events that contribute to risk is a critical element
	in developing good risk-related metrics and well-informed decisions. Unless these categorical
Event type	differences are recognized and applied, any resulting metrics lose meaning and, as a result, decisions based on those metrics are far more likely to be flawed.
Liverit type	1. Information that proves or disproves a stated issue. based on those metrics are fair more likely to be hawed. 1. Information that an auditor
	gathers in the course of performing an IS audit; relevant if it pertains to the audit objectives and has
	a logical relationship to the findings and conclusions it is used to support. Scope
Evidence	Notes: Audit perspective
	An exception report is generated by a program that identifies transactions or data that appear to be incorrect. incorrect. incorrect. incorrect. incorrect. incorrect. <
Exception reports	predetermined range or may not conform to specified criteria.
	The exclusive-OR operator returns a value of TRUE only if just one of its operands is
	TRUE. Scope Notes: The XOR operation is a Boolean operation that
	produces a 0 if its two Boolean inputs are the same (0 and 0 or 1 and 1) and that produces a 1 if its
Exclusive-OR (XOR)	two inputs are different (1 and 0). In contrast, an inclusive-OR operator returns a value of TRUE if either or both of its operands are TRUE.
Executable code	The machine language code that is generally referred to as the object or load module.
	The most prevalent type of computer system that arises from the research of artificial
	intelligence. Scope Notes: An expert system has a built in hierarchy of
	rules, which are acquired from human experts in the appropriate field. Once input is provided, the
Expert system	system should be able to define the nature of the problem and provide recommendations to solve the problem.
Exposure	The potential loss to an area due to the occurrence of an adverse event.
Extended Binary-coded for Decimal Interchange Code (EBCDIC)	An 8-bit code representing 256 characters; used in most large computer systems
	Describes an enterprise that extends outside its traditional boundaries. Such enterprise concentrate
Catended outcomis-	on the processes they do best and rely on someone outside the entity to perform the remaining
Extended enterprise	processes. A declarative online software application user access control policy language implemented in
eXtensible Access Control Markup Language (XACML)	Extensible Markup Language (XML).
Open (Promulgated through the World Wide Web Consortium, XML is a web-based application
	development technique that allows designers to create their own customized tags, thus, enabling
aVtancible Manuar Language (VA 11)	the definition, transmission, validation and interpretation of data between applications and
eXtensible Markup Language (XML)	enterprises. The router at the extreme edge of the network under control, usually connected to an Internet
External router	service provider (ISP) or other service provider; also known as border router.
	,

External storage	The location that contains the backup copies to be used in case recovery or restoration is required in the event of a disaster.
	A private network that resides on the Internet and allows a company to securely share business
	information with customers, suppliers or other businesses as well as to execute electronic
	transactions. Scope Notes: Different from an Intranet in that it is
	located beyond the company's firewall. Therefore, an extranet relies on the use of securely issued
	digital certificates (or alternative methods of user authentication) and encryption of messages. A
	virtual private network (VPN) and tunneling are often used to implement extranets, to ensure
Extranet	security and privacy.
Enterprise goal	 Scope Notes: See Business goal
Eavesdropping	Listening a private communication without permission
Egress	Network communications going out
	An algorithm that combines plane geometry with algebra to achieve stronger authentication with
	smaller keys compared to traditional methods, such as RSA, which primarily use algebraic
Elliptical aum a amenta sua plan (ECC)	factoring Scope Notes: Smaller keys are more suitable to mobile
Elliptical curve cryptography (ECC)	devices. Protocol, which is designed to provide a mix of security services in IPv4 and IPv6. ESP can be used to
	provide confidentiality, data origin authentication, connectionless integrity, an anti-replay service (a
	form of partial sequence integrity), and (limited) traffic flow—confidentiality. (RFC
	4303). 4303).
	before the next layer protocol header (transport mode) or before an encapsulated IP header (tunnel
Encapsulation security payload (ESP)	mode).
Encapsulation security payload (ESF)	A mathematically based function or
Encryption algorithm	calculation that encrypts/decrypts data
z.i.e. yption algorithm	When containment measures have been deployed after an incident occurs, the root cause of the
	incident must be identified and removed from the network Scope Notes:
	Eradication methods include: restoring backups to achieve a clean state of the system,
	removing the root cause, improving defenses and performing vulnerability analysis to find further
Eradication	potential damage from the same root cause.
Exploit	Full use of a vulnerability for the benefit of an attacker
Fail-over	The transfer of service from an incapacitated primary component to its backup component.
	Describes the design properties of a computer system that allow it to resist active attempts to attack
Fail-safe	or bypass it.
	A plan of action or set of procedures to be performed if a system implementation, upgrade or
	modification does not work as intended. Scope Notes: May involve
	restoring the system to its state prior to the implementation or change. Fallback procedures are
	needed to ensure that normal business processes continue in the event of failure and should always
Fallback procedures	be considered in system migration or implementation.
	An optimized code based on a branch prediction that predicts which way a program will branch
Fall-through logic	when an application is presented.
False authorization	Also called false acceptance, occurs when an unauthorized person is identified as an authorized person by the biometric system.
	Occurs when an unauthorized person manages to enroll into the biometric
Falsa aggallar agk	system. syste
False enrollment	biometric feature and saving it as a personal reference on a smart card, a PC or in a central database.
False negative	In intrusion detection, an error that occurs when an attack is misdiagnosed as a normal activity. A result that has been mistakenly identified as a problem when, in reality, the situation is normal.
False positive Fault tolerance	A system's level of resilience to seamlessly react to hardware and/or software failure.
Tault tolerance	A system's level of resilience to scarniessly react to hardware and/or software failure.
	A phase of a system development life cycle (SDLC) methodology that researches the feasibility and
Feasibility 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 telecommunications
Fiber-optic cable	network. Scope Notes: Fiber-optic systems have low transmission
	losses as compared to twisted-pair cables. They do not radiate energy or conduct electricity. They
	are free from corruption and lightning-induced interference, and they reduce the risk of wiretaps.
	An individual data element in a computer record. strong>Scope Notes:
L	Examples include employee name, customer address, account number, product unit price
Field	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. Scope Notes: Since a file is often fragmented and thus subdivided
File allocation table (EAT)	into many sectors within the disk, the information stored in the FAT is used when loading or
File allocation table (FAT)	updating the contents of the file.
	Specifies the length of the file record and the sequence and size of its
File layout	fields. Scope Notes: Also will specify the type of data contained within each field; for example, alphanumeric, zoned decimal, packed and binary.
File layout	A high-capacity disk storage device or a computer that stores data centrally for network users and
	manages access to those data. br/> Scope Notes: File servers can be
	dedicated so that no process other than network management can be executed while the network is
	available; file servers can be non-dedicated so that standard user applications can run while the
File server	network is available.
	A protocol used to transfer files over a Transmission Control Protocol/Internet Protocol (TCP/IP)
File Transfer Protocol (FTP)	network (Internet, UNIX, etc.).
The transfer frotocol (Fit)	A router that is configured to control network access by comparing the attributes of the incoming or
Filtering router	outgoing packets to a set of rules.
FIN (Final)	A flag set in a packet to indicate that this packet is the final data packet of the transmission.
Financial audit	An audit designed to determine the accuracy of financial records and information.
Finger	A protocol and program that allows the remote identification of users logged into a system.
	A system or combination of systems that enforces a boundary between two or more networks,
Firewall	typically forming a barrier between a secure and an open environment such as the Internet.
Firmware	Memory chips with embedded program code that hold their content when power is turned off.

Any yearly accounting period without regard to its relationship to a calendary ser
Any yearly accounting period without regard to its relationship to a calendar year. An area that describes a certain governance topic, domain or issue that can be addressed by a
collection of governance and management objectives and their components.
A value that represents a reference to a tuple (a row in a table) containing the matching candidate
key value. key value. key value. key value. key value. key value. key value. key value.
does not include any invalid foreign key values is known as the referential integrity problem. The
constraint that values of a given foreign key must match values of the corresponding candidate key
is known as a referential constraint. The relation (table) that contains the foreign key is referred to as the referencing relation and the relation that contains the corresponding candidate key as the
referenced relation or target relation. (In the relational theory it would be a candidate key, but in
real database management systems (DBMSs) implementations it is always the primary key.)
The process of collecting, assessing, classifying and documenting digital evidence to assist in the
identification of an offender and the method of compromise.
The application of an edit, using a predefined field definition to a submitted information stream; a test to ensure that data conform to a predefined format.
High-level, user-friendly, nonprocedural computer language used to program and/or read and
process computer files.
A packet-switched wide-area-network (WAN) technology that provides faster performance than
older packet-switched WAN technologies. data and image transfers. Because of its variable-length packet architecture, it is not the most
efficient technology for real-time voice and video. In a frame-relay network, end nodes establish a
connection via a permanent virtual circuit (PVC).
A measure of the rate by which events occur over a certain period of time A technique used to determine the size of a development task, based on the number of function
points. points. points. points.
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 Scope Notes: COBIT 5 perspective
Software available free of charge
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
prevention and recovery. Multipurpose audit software that can be used for general processes, such as record selection,
matching, recalculation and reporting.
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 successful.
A tool used to integrate, convert, handle, analyze and produce information regarding the surface of
the earth. Scope Notes: GIS data exist as maps, tri-dimensional virtual
models, lists and tables 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 Scope Notes: Conditions can include the cost of capital,
foreign exchange rates, etc. Options can include shifting manufacturing to other locations, sub-
contracting portions of the enterprise to third parties, selecting a product mix from many available choices, etc.
A description of a particular way of accomplishing something that is less prescriptive than a
procedure.
A proven activity or process that has been successfully used by multiple enterprises and has been
shown to produce reliable results The method by which and enterprise ensures that stakeholder needs, conditions and entions are
The method by which and enterprise ensures that stakeholder needs, conditions and options are evaluated to determine balanced, agreed-on enterprise objectives are achieved. It involves setting
direction through prioritization and decision making; and monitoring performance and compliance
against agreed-on direction and objectives.
Factors that, individually and collectively, contribute to the good operation of the enterprise's
governance system over information and technology (I&T). Components interact with each other resulting in a holistic governance system for I&T. Components include processes; organizational
structures; principles, policies and procedures; information; culture, ethics and behavior; people,
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skills and competencies; and services, infrastructure and applications.
Something (tangible or intangible) that assists in the realization of effective
Something (tangible or intangible) that assists in the realization of effective governance strong>COBIT 5 perspective (this term was updated
Something (tangible or intangible) that assists in the realization of effective governance strong>COBIT 5 perspective (this term was updated to "governance component" in COBIT 2019).
Something (tangible or intangible) that assists in the realization of effective governance governance to "governance component" in COBIT 2019). A framework is a basic conceptual structure used to solve or address complex issues. In the
Something (tangible or intangible) that assists in the realization of effective governance strong>COBIT 5 perspective (this term was updated to "governance component" in COBIT 2019).
Something (tangible or intangible) that assists in the realization of effective governance governance strong>Scope Notes: COBIT 5 perspective (this term was updated to "governance component" in COBIT 2019). A framework is a basic conceptual structure used to solve or address complex issues. In the governance context, a framework is used to build a governance system for the enterprise. In COBIT 2019, a governance framework should: be based on a conceptual model, identifying the key components and relationships among components to maximize consistency and allow
Something (tangible or intangible) that assists in the realization of effective governance governance strong>Scope Notes: COBIT 5 perspective (this term was updated to "governance component" in COBIT 2019). A framework is a basic conceptual structure used to solve or address complex issues. In the governance context, a framework is used to build a governance system for the enterprise. In COBIT 2019, a governance framework should: <br< td=""></br<>

	A governance view that ensures that information and related technology support and enable the
Governance of enterprise IT	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 effectively. effectively. strong>Scope Notes: COBT 5 perspective
	The core requirements that underly the governance over enterprise information and technology. In COBIT 2019, the six principles for a governance system are:
Governance system	distinct from management 5. Tailored to enterprise needs 6. End-to end governance system
	The outcomes (objectives) to achieve enterprise goals from information and technology. In COBIT 2019, a governance or management objective always relates to one process, a governance objective relates to a governance process and a management objective relates to a management process. Boards and executive management are typically accountable for governance processes, while
Governance/management objectives	management processes are the domain of senior and middle management. For each COBIT 5 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. Statements of actions from governance bodies and management.
Governance/ management practice	Statements of actions from governance bodies and management. Sbr/>Strong>Scope Notes. COBIT 5 perspective A business term used to group the three close-related disciplines responsible for the protection of
Governance, Risk Management and Compliance (GRC)	assets, and operations
Hacker Handprint scanner	An individual who attempts to gain unauthorized access to a computer system. A biometric device that is used to authenticate a user through palm scans.
Harden	To configure a computer or other network device to resist attacks.
Hardware	The physical components of a computer system. An algorithm that maps or translates one set of bits into another (generally smaller) so that a message yields the same result every time the algorithm is executed using the same message as input. <br< td=""></br<>
Hash function	derived or reconstituted from the result produced by the algorithm or to find two different messages that produce the same hash result using the same algorithm.
Hash total	The total of any numeric data field in a document or computer file. This total is checked against a control total of the same field to facilitate accuracy of processing.
	A service offered via telephone/Internet by an enterprise to its clients or employees that provides information, assistance and troubleshooting advice regarding software, hardware or
	networks. Scope Notes: A help desk is staffed by people who can either resolve the problem on their own or escalate the problem to specialized personnel. A help desk is
Help desk	often equipped with dedicated customer relationship management (CRM) software that logs the problems and tracks them until they are solved.
	A method often employed by antispam software to filter spam using criteria established in a centralized rule database. strong>Scope Notes: Every e-mail message is given a rank based on its beader and centralis which is then metabad against present thresholds. A message
Heuristic filter	rank, based on its header and contents, which is then matched against preset thresholds. A message 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. A database structured in a tree/root or parent/child relationship. Scope Notes:
Hierarchical database	
Honeypot	intruders in a manner such that their actions do not affect production systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems.
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.
	A common connection point for devices in a network, hubs are used to connect segments of a local area network (LAN). Scope Notes: A hub contains multiple ports. When
Hub	a packet arrives at one port, it is copied to the other ports so that all segments of the LAN can see all packets.
Hurdle rate	Also known as required rate of return, above which an investment makes sense and below which it does not. Scope Notes: Often based on the cost of capital, plus or minus 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 control to be effective. <pre>control to be effective.</pre> <pre>control to be effect</pre>
Hybrid application controls Hyperlink	computer-dependent application controls An electronic pathway that may be displayed in the form of highlighted text, graphics or a button that 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.
	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
Hypertext Markup Language (HTML)	document.
Hypertext Transfer Protocol Secure (HTTPS) Hypertext Transfer Protocol (HTTP)	A protocol for accessing a secure web server, whereby all data transferred are encrypted. 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	Using a hash function (algorithm) to create hash valued or checksums that validate message integrity
Hijacking	An exploitation of a valid network session for unauthorized purposes
Havinantal defence in death	Controls are placed in various places in the path to access an asset (this is functionally equivalent to
Horizontal defense-in depth Human firewall	concentric ring model above). A person prepared to act as a network layer of defense through education and awareness

	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
hash	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.
	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
Identity access management (IAM)	resources. The goal of IAM is to provide appropriate access to enterprise resources.
	A fail-over process in which the primary node owns the resource group and the backup node runs
	idle, only supervising the primary node. 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
Idle standby	joining the cluster will thus cause a short service interruption.
	Pronounced I-triple-E; IEEE is an organization composed of engineers, scientists and
	students. Scope Notes: Best known for developing standards for the
IEEE (Institute of Electrical and Electronics Engineers)	computer and electronics industry
	The process of electronically inputting source documents by taking an image of the document,
Image processing	thereby eliminating the need for key entry.
	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
lange at an all rais	of safeguards that are required and recovery time frames. This analysis is the basis for establishing
Impact analysis	the recovery strategy. A review of the possible consequences of a rick obt/s obt/s obtained Scene Notes: of strongs Scene Not
Impact assessment	A review of the possible consequences of a risk. Scope Notes: See also
Impact assessment	Impact analysis. As a security concept related to Windows NT, allows a server application to temporarily "be" the
	As a security concept related to Windows NT, allows a server application to temporarily "be" the client in terms of access to secure objects. client in terms of access to secure objects. dry> strong>Scope Notes: Impersonation
	has three possible levels: identification, letting the server inspect the client's identity;
	impersonation, letting the server act on behalf of the client; and delegation, the same as
	impersonation, letting the server act on behalf of the client, and delegation, the same as impersonation but extended to remote systems to which the server connects (through the
	preservation of credentials). Impersonation by imitating or copying the identification, behavior or
	actions of another may also be used in social engineering to obtain otherwise unauthorized physical
Impersonation	access.
	In business, includes the full economic life cycle of the investment program through retirement; (i.e.,
	when the full expected value of the investment is realized, as much value as is deemed possible has
	been realized, or it is determined that the expected value cannot be realized and the program is
Implement	terminated).
	Refers to the controls that support the process of transformation of the enterprise's legacy
	information systems into the enterprise resource planning (ERP)
	applications. Scope Notes: Largely covers all aspects of systems
Implementation life cycle review	implementation and configuration, such as change management
	Any event that is not part of the standard operation of a service and that causes, or may cause, an
Incident	interruption to, or a reduction in, the quality of that service.
	The response of an enterprise to a disaster or other significant event that may significantly affect the
	enterprise, its people, or its ability to function productively. An incident response may include
	evacuation of a facility, initiating a disaster recovery plan (DRP), performing damage assessment, and
Incident response	any other measures necessary to bring an enterprise to a more stable status.
Incremental testing	Deliberately testing only the value-added functionality of a software component.
	1. Self-governance Self-governance 1. Self-governance Sel
	appearance of objectivity. Such threats to objectivity must be managed at the individual auditor,
Indonandanca	engagement, functional and organizational levels. Independence includes Independence of mind and
	Independence in appearance. <br< td=""></br<>
Independence Independent appearance	The avoidance of facts and circumstances that are so significant that a reasonable and informed
	third party would be likely to conclude, weighing all the specific facts and circumstances, that a
	firm's, audit function's, or a member of the audit team's, integrity, objectivity or professional
	skepticism has been compromised.
Independent attitude Indexed Sequential Access Method (ISAM) Indexed sequential file	Impartial point of view which allows an IS auditor to act objectively and with fairness.
	A disk access method that stores data sequentially while also maintaining an index of key fields to all
	the records in the file for direct access capability.
	A file format in which records are organized and can be accessed, according to a pre-established key
	that is part of the record.
	Information architecture is one component of IT architecture (together with applications and
Information architecture	technology).
Information criteria	Attributes of information that must be satisfied to meet business requirements.
	Data-oriented development techniques that work on the premise that data are at the center of
	information processing and that certain data relationships are significant to a business and must be
Information engineering	represented in the data structure of its systems.
Information processing facility (IPF)	The computer room and support areas.
	Ensures that within the enterprise, information is protected against disclosure to unauthorized users
Information security	(confidentiality), improper modification (integrity), and non-access when required (availability)
	The 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
Information security governance	managed appropriately and verifying that the enterprise's resources are used responsibly.
	The overall combination of technical, operational and procedural measures and management
Information account and account	structures implemented to provide for the confidentiality, integrity and availability of information
Information security program	based on business requirements and risk analysis.

	The combination of strategic, managerial and operational activities involved in gathering, processing
	storing, distributing and using information and its related technologies. https://www.nc.unived.in.gathering, processing storing, processing storing, distributing and using information and its related technologies.
	Notes: Information systems are distinct from information technology (IT) in that an
nformation systems (IS)	information system has an IT component that interacts with the process components.
nformation technology (IT)	The hardware, software, communication and other facilities used to input, store, process, transmit and output data in whatever form.
mornation technology (11)	In a RACI chart (Responsible, Accountable, Consulted, Informed), Informed refers to those people
nformed	who are kept up to date on the progress of an activity (one-way communication).
	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
nfrastructure as a Service (IaaS)	systems (OSs) and applications.
, ,	The risk level or exposure without taking into account the actions that management has taken or
nherent risk	might take (e.g., implementing controls)
	Database structures that have a strict hierarchy (no multiple inheritance). Inheritance can initiate
nheritance (objects)	other objects irrespective of the class hierarchy, thus there is no strict hierarchy of objects.
wikiel average lead (IDI)	The initialization procedure that causes an operating system to be loaded into storage at the
nitial program load (IPL)	beginning of a workday or after a system malfunction.
	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 incremen
	them by one for every use. If an attacker can capture two packets using the same IV (the same key in
	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
	much 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
nitialization vector (IV) collisions	often. This furthers the need for a WEP key management protocol.
, , , , , , , , , , , , , , , , , , ,	Techniques and procedures used to verify, validate and edit data to ensure that only correct data as
nput control	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: 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 end-to-end digital telecommunications network with signaling, switching and transport
	capabilities supporting a wide range of service accessed by standardized interfaces with integrated
Integrated services digital network (ISDN)	customer control. Scope Notes: The standard allows transmission of digital voice, video and data over 64-Kbps lines.
	A testing methodology in which test data are processed in production
	systems. strong>Scope Notes: The data usually represent a set of fictitious
ntegrated test facilities (ITF)	entities such as departments, customers or products. Output reports are verified to confirm the correctness of the processing.
integrated test racinities (111)	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
nterface testing nternal control environment	sent as input to another application. The relevant environment on which the controls have effect.
	The relevant environment on which the control have enest.
	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
	reliability 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: Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect
	the transactions and dispositions of the assets of the registrant.
	assurance 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 registrant are being made only in accordance with authorizations of management and directors
	of the registrant Provide reasonable assurance regarding prevention or timely detection of
Internal control over financial reporting	unauthorized acquisition, use or disposition of the registrant's assets that could have a material
Internal control over financial reporting	effect on the financial statements. The dynamic, integrated processeseffected by the governing body, management and all other staf
	that are designed to provide reasonable assurance regarding the achievement of the following
	general objectives: Effectiveness, efficiency and economy of operations
	management /li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li>/li
	policiesManagement's strategies for achieving these general objectives are affected by the design and operation of the following components: Control environment
nternal control structure	system
	The policies, procedures, practices and organizational structures designed to provide reasonable
	assurance that business objectives will be achieved and undesired events will be prevented or
nternal controls	detected and corrected. Authorized user of a computer system who oversteps his /her legitimate access
	Authorized user of a computer system who oversteps his/her legitimate access
	rights. Scope Notes: This category is divided into masqueraders and

	The discount rate that equates an investment cost with its projected
	earnings. earnin
	of the cash outflow will equal the present value of the cash inflow. The IRR and net present value
Internal rate of return (IRR)	(NPV) are measures of the expected profitability of aninvestment project.
Internal storage	The main memory of the computer's central processing unit (CPU).
	1. Two or more networks connected by a router. Strong picture of the control Protocol (Internet Protocol (ICP) to link government, university and
Internet	Transmission Control Protocol/Internet Protocol (TCP/IP) to link government, university and commercial institutions.
memer	Use of the Internet as a remote delivery channel for banking services. services. Vscorpe
	Notes: Services include traditional ones, such as opening an account or transferring funds
	to different accounts, and new banking services, such as electronic bill presentment and payment
Internet banking	(allowing customers to receive and pay bills on a bank's web site).
	A set of protocols that allow systems to communicate information about the state of services on other systems. systems. systems. other systems.
	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.
	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:
	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),
Internet Inter-ORB Protocol (IIOP)	which only supports the transmission of text.
Internet protocol (IP)	Specifies the format of packets and the addressing scheme.
	An attack using packets with the spoofed source Internet packet (IP) addresses. Scope Notes: This technique exploits applications that use
	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.
	A third party that provides individuals and enterprises with access to the Internet and a variety of
Internet service provider (ISP)	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
Interruption window	excessive for the enterprise. A private network that uses the infrastructure and standards of the Internet and World Wide Web,
Intranet	but is isolated from the public Internet by firewall barriers.
Intrusion	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.
(100)	Inspects network and host security activity to identify suspicious patterns that may indicate a
Intrusion detection system (IDS)	network or system attack. In vulnerability analysis, gaining information by performing checks that affect the normal operation
Intrusive monitoring	of the system, and even by crashing the system.
	A set of protocols developed by the Internet Engineering Task Force (IETF) to support the secure
IP Security (IPSec)	exchange of packets.
	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
Irregularity	enterprise as a whole; gross negligence or unintentional illegal acts.
	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
ISO 9001:2000	particular quality targets.
	This standard defines information's confidentiality, integrity and availability controls in a
	comprehensive information security management system.
	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.
<u> </u>	
	A model that integrates a set of guidelines, policies and methods that represent the organizational
	approach to IT governance. See, also, "governance framework."
	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
IT governance framework	management. It is an integral part of institutional governance and consists of the leadership and organizational structures and processes that ensure that the enterprise's IT sustains and extends the
IT governance framework	management. It is an integral part of institutional governance and consists of the leadership and organizational structures and processes that ensure that the enterprise's IT sustains and extends the enterprise's strategy and objectives.
IT governance framework	management. It is an integral part of institutional governance and consists of the leadership and organizational structures and processes 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).
IT governance framework IT Governance Institute® (ITGI®)	management. It is an integral part of institutional governance and consists of the leadership and organizational structures and processes that ensure that the enterprise's IT sustains and extends the enterprise's strategy and objectives.
	management. It is an integral part of institutional governance and consists of the leadership and organizational structures and processes 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

	The set of hardware, software and facilities that integrates an enterprise's IT
	The set of hardware, software and facilities that integrates an enterprise's IT assets. assets. cope Notes: Specifically, the equipment (including servers,
	routers, switches and cabling), software, services and products used in storing, processing,
IT infrastructure	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
	performance against set targets for expenditures on, and returns from, IT-enabled investment
IT investment dashboard	projects in terms of business values.
IT : 1	The business risk associated with the use, ownership, operation, involvement, influence and
IT risk	adoption of IT within an enterprise. 1. An instance of IT risk. >cbr/> 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,
IT risk register	description, owner, expected/actual frequency, potential/actual magnitude, potential/actual business 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 stooring committee	day-to-day management of IT service delivery and IT projects, and focuses on implementation
IT steering committee	aspects. A long-term plan (i.e., three- to five-year horizon) in which business and IT management
	cooperatively describe how IT resources will contribute to the enterprise's strategic objectives
IT strategic plan	(goals).
	A committee at the level of the board of directors to ensure that the board is involved in major IT
	matters and decisions. Scope Notes: The committee is primarily accountable for managing the portfolios of IT-enabled investments, IT services and other IT
IT strategy committee	resources. 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
IT tactical plan	into required initiatives, resource requirements and ways in which resources and benefits will be
IT tactical plan IT user	monitored and managed. A person who uses IT to support or achieve a business objective.
11 4361	The UK Office of Government Commerce (OGC) IT Infrastructure Library. A set of guides on the
ITIL (IT Infrastructure Library)	management and provision of operational IT services.
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. str/> >cstrong>Scope
Information	Notes: COBIT 5 and COBIT 2019 perspective
	The process work products/artifacts considered necessary to support operation of the
	process 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 2019 inputs and outputs should not be regarded as
Inputs and outputs	an exhaustive list since additional information flows could be defined depending on a particular enterprise's environment and process framework.
inputs and outputs	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 > Scope Notes: COBIT 5 perspective
IT application	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 improvement.
	Note: this was renamed "alignment goal" in COBIT 2019. <pre>copy 5</pre>
IT goal	COBIT 5 perspective The day-to-day provision to customers of information and technology infrastructure and
	applications and support for their use—e.g., service desk, equipment supply and moves, and security
IT service	authorizations Scope Notes: COBIT 2019 perspective
	A family of specifications developed by the Institute of Electrical and Electronics Engineers (IEEE) for
IEEE 802.11	wireless local area network (WLAN) technology. 802.11 specifies an over-the-air interface between a wireless client and a base station or between two wireless clients.
ILLL OUZ.II	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 br/> Scope Notes:
	The imaging process is made to obtain residual data, such as deleted files, fragments of
lucacia a	deleted files and other information present, from the disk for analysis. This is possible because
Imaging Impact	imaging duplicates the disk surface, sector by sector. Magnitude of loss resulting from a threat exploiting a vulnerability
impace	A condition that causes a weakness or diminished ability to execute audit
	objectives. Scope Notes: Impairment to organisational independence
	and individual objectivity may include personal conflict of interest; scope limitations; restrictions on
Impairment	access to records, personnel, equipment, or facilities; and resource limitations (such as funding or staffing).
Impairment	The operational component of incident management. The operational component management The operational component The operational component
	The plan includes documented procedures and guidelines for defining the criticality of
Incident response plan	incidents, reporting 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
Indonondance of wind	that compromise professional judgement, thereby allowing an individual to act with integrity and
Independence of mind	exercise objectivity and professional skepticism. A process to convert information extracted to a format that can be understood by
Ingestion	investigators. strong>Scope Notes: See also Normalization.

Ingress	Network communications coming in
	A general term for attack types which consist of injecting code that is then interpreted/executed by
Injection	the application. (OWASP)
	An asset that is not physical in nature. Scope Notes: Examples include:
Intangible asset	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 (IANIA)	Responsible for the global coordination of the DNS root, IP addressing, and other Internet protocol
Internet Assigned Numbers Authority (IANA)	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
Internetwork Packet Exchange/Sequenced Packet Exchange (IPX/SPX)	services 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
initiasion prevention	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
	The collection and analysis of evidence with the goal to identifying the perpetrator of an attack or
Investigation	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). br/> Scope Notes: AH ensures data integrity with a checksum that a
	message authentication code, such as MD5, generates. To ensure data origin authentication, AH
	includes a secret shared key in the algorithm that it uses for authentication. To ensure replay
IP Authentication Header (AH)	protection, AH uses a sequence number field within the IP authentication header.
	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
Irregularity	enterprise as a whole, gross negligence or unintentional illegal acts.
Job control language (JCL)	Used to control run routines in connection with performing tasks on a computer.
Journal entry	A debit or credit to a general ledger account, in Oracle. See also Manual Journal Entry. Any sample that is selected subjectively or in such a manner that the sample selection process is not
Judgment sampling	random or the sampling results are not evaluated mathematically.
Judgment Sumpling	A measure that tells management, after the fact, whether an IT process has achieved its business
Key goal indicator (KGI)	requirements; usually expressed in terms of information criteria.
Key management practice	Management practices that are required to successfully execute business processes.
	A measure that determines how well the process is performing in enabling the goal to be
	reached. Scope Notes: 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
Key performance indicator (KPI)	is an action that the process owner must take to achieve effective process performance. A subset of risk indicators that are highly relevant and possess a high probability of predicting or
Key risk indicator (KRI)	indicating important risk. br/> Scope Notes: See also Risk Indicator.
Key risk muleator (Kitt)	Refers to the repository of a core of information and knowledge for the extended
	enterprise. br/> Scope Notes: Generally a web-based implementation
	containing a core repository of information provided for the extended enterprise to resolve any
Knowledge portal	issues
	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
Kernel mode Key longth	memory are accessible. The size of the encryption key measured in bits
Key length Keylogger	Software used to record all keystrokes on a computer
	The time it takes a system and network delay to respond. <pre>corporation</pre>
	Notes:More specifically, system latency is the time a system takes to retrieve data.
Latency	Network latency is the time it takes for a packet to travel from source to the final destination.
	The ability and process to translate vision into desired behaviors that are followed at all levels of the
Leadership	extended enterprise.
	A communication line permanently assigned to connect two points, as opposed to a dial-up line that
Leased line	is only available and open when a connection is made by dialing the target machine or network. Also known as a dedicated line.
	Refers to the degree to which the subject matter has been examined or reviewed.
Level of assurance	
Level of assurance Librarian	The individual responsible for the safeguard and maintenance of all program and data files.
	The individual responsible for the safeguard and maintenance of all program and data files. A contract that establishes the terms and conditions under which a piece of software is being
	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.
Librarian 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. A series of stages that characterize the course of existence of an organizational investment (e.g.,
Librarian	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program).
Librarian 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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of
Licensing agreement Life cycle	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. Strong>Scope Notes: When both high and low values are used,
Licensing agreement Life cycle	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check.
Librarian Licensing agreement Life cycle Limit check	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. Strong>Scope Notes: When both high and low values are used,
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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check. A utility program that combines several separately compiled modules into one, resolving internal
Licensing agreement Life cycle Limit check Link editor (linkage editor)	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check. A utility program that combines several separately compiled modules into one, resolving internal references between them.
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Licensing agreement Life cycle Limit check Link editor (linkage editor)	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check. 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; a chunk of input data that is represented "as is" in compressed data. Communication network that serves several users within a specified geographic area. str/> strong>Scope Notes: A personal computer LAN functions as a distributed
Licensing agreement Life cycle Limit check Link editor (linkage editor)	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check. 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, a chunk of input data that is represented "as is" in compressed data. Communication network that serves several users within a specified geographic area. chr/> strong>Scope Notes: A personal computer LAN functions as a distributed processing system in which each computer in the network does its own processing and manages
Licensing agreement Life cycle Limit check Link editor (linkage editor) Literals	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check. 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; a chunk of input data that is represented "as is" in compressed data. Communication network that serves several users within a specified geographic area. corp./>cbr/>strong>Scope Notes: 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
Librarian Licensing agreement Life cycle Limit check Link editor (linkage editor)	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. A series of stages that characterize the course of existence of an organizational investment (e.g., product, project, program). Tests specified amount fields against stipulated high or low limits of acceptability. strong>Scope Notes: When both high and low values are used, the test may be called a range check. 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; a chunk of input data that is represented "as is" in compressed data. Communication network that serves several users within a specified geographic area. chr/> strong>Scope Notes: A personal computer LAN functions as a distributed processing system in which each computer in the network does its own processing and manages

	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.
	The act of connecting to the computer, which typically requires entry of a user ID and password into
Logon	a computer terminal.
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.
Logs/log lile	Any event during which a threat event results in loss. strong>Scope Notes:
Loss event	
	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. Scope Notes: Also
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.
Logical decess	Metrics for achievement of goals-An indicator relating to the outcome or result of an
	enabler. Scope Notes: 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. Scope Notes: This indicator will provide an indication on possible outcome of the enabler.
Lead indicator	possible outcome of the enabler.
	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. Scope Notes: The risk owner may not be responsible for the
	implementation of risk treatment.
Risk owner	The legical language that a computer understands
Machine language Magnetic card reader	The logical language that a computer understands. Reads cards with a magnetic surface on which data can be stored and retrieved.
magnetic cara reader	Used to electronically input, read and interpret information directly from a source
	document. Scope Notes: MICR requires the source document to have
Magnetic ink character recognition (MICR)	specially-coded magnetic ink
Magnitude	A measure of the potential severity of loss or the potential gain from realized events/scenarios
Maril Indiana and American	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
	unwanted. Spyware can, however, be used to gather information for identity theft or other clearly
Malware	illicit purposes.
Managament information system (MIC)	An organized assembly of resources and procedures required to collect, process and distribute data
Management information system (MIS)	for use in decision making. 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.
	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
Man-in-the-middle attack	own, eventually assuming control of the communication.
	A journal entry entered at a computer terminal. Scope Notes: Manual journal entries can include regular, statistical, inter-company and foreign currency entries. See also
Manual journal entry	Journal entries can include regular, statistical, inter-company and foreign currency entries. See also 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. Scope Notes: Mapping is a preliminary step for developing an
Mapping	applications link.
	A computerized technique of blocking out the display of sensitive information, such as passwords,
Masking	on a computer terminal or report. Attackers that penetrate systems by using the identity of legitimate users and their logon
Masqueraders	credentials.
	A file of semi permanent information that is used frequently for processing data or for more than
Master file	one purpose.
	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
A A	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
Materiality	in pusiness, indicates the degree of reliability or dependency that the hijsiness can place on a
Maturity	process achieving the desired goals or objectives.
Maturity Maturity model	process achieving the desired goals or objectives. Scope Notes: See Capability Maturity Model (CMM).
Maturity Maturity model	process achieving the desired goals or objectives. Scope Notes: See Capability Maturity Model (CMM). Maximum time that an enterprise can support processing in alternate mode. A standard used to evaluate and communicate performance against expected results. results.
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	Applied to the hardware at the factory and cannot be modified, MAC is a unique, 48-bit, hard-coded
Media access control (MAC)	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. strong>Scope Notes: Tapes deteriorating in a warm, humid
Media oxidation	environment are an example of media oxidation. Proper environmental controls should prevent, or significantly slow, this process.
incula exidation	The act of copying raw data from one place to another with little or no formatting for
	readability. Scope Notes: Usually, dump refers to copying data from the
	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
Memory dump	output in a difficult-to-read form (binary, octal or hexadecimal).
	An American National Standards Institute (ANSI) standard checksum that is computed using Data
Message authentication code	Encryption Standard (DES).
Message switching	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.
Wicosage switching	A quantifiable entity that allows the measurement of the achievement of a process
	goal Scope Notes: Metrics should be SMARTspecific, measurable,
	actionable, relevant and timely. Complete metric guidance defines the unit used, measurement
Metric	frequency, ideal target value (if appropriate) and also the procedure to carry out the measurement and the procedure for the interpretation of the assessment.
wietric	A high-capacity line-of-sight transmission of data signals through the atmosphere which often
Microwave transmission	requires relay stations.
	Another term for an application programmer interface (API). It refers to the interfaces that allow
Middleware	programmers to access lower- or higher-level services by providing an intermediary layer that includes function calls to the services.
IVIIGGIEWOI E	A terminal element that marks the completion of a work package or phase. A terminal element that marks the completion of a work package or phase. 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
Milestone	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.
willestoffe	An alternate site that contains the same information as the original. strong>Scope Notes:
	// strong 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
Mirrored site	throughout the Internet.
Mission-critical application	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.
Misuse detection	Detection on the basis of whether the system activity matches that defined as "bad".
inibase detection	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
Mobile computing	digital assistants (PDAs), cellular phones, laptops and other technologies of this kind.
Mobile site	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.
MODEM (modulator/demodulator)	When acting in the receiver capacity, a modem decodes incoming frequencies.
Monotony unit compling	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.
Monetary unit sampling	Rules outlining or delineating the way in which information about the use of computers, networks,
Monitoring policy	applications and information is captured and interpreted.
Multiplexor	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
Mutual takeover	(CPU) power to run both applications with sufficient speed, or expected performance losses must be taken into account until the failed node reintegrates.
Tractal tarcover	Plans, builds, runs and monitors activities in alignment with the direction set by the governance
Management	body to achieve the enterprise objectives.
	A way to describe a given set of components and how those components relate to each other in
NA - del	order to describe the main workings of an object, system, or concept order/> Strong>Scope
Model MAC header	Notes: COBIT 5 perspective Represents the hardware address of an network interface controller (NIC) inside a data packet
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:
	 Controls are not in place and/or controls are not in use and/or controls are inadequate Escalation is warranted
	Esculation is warranted
	There is an inverse relationship between materiality and the level of audit risk acceptable to the IS
Natorial weathers	audit or assurance professional, i.e., the higher the materiality level, the lower the acceptability of
Material weakness	the audit risk, and vice versa. A unique identifier assigned to network interfaces for communications on the physical network
Media access control (MAC) address	segment
	U

Message digest	A smaller extrapolated version of the original message created using a message digest algorithm
Message digest algorithm	Message digest algorithms are SHA1, MD2, MD4 and MD5. These algorithms are one-way functions unlike private and public key encryption algorithms. 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
Miniature fragment attack	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 and the others would pass without review.
Mobile device	A small, handheld computing devices, typically having a display screen with touch input and/or a miniature keyboard and weighing less than two pounds
Multifactor authentication	A combination of more than one authentication method, such as token and password (or personal identification number [PIN] or token and biometric device).
Merkle Tree	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 tree.
message digest	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. See hash
message digest	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
Net present value (NPV)	investment. strong>Scope Notes: 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 into account.
Net return	The revenue that a project or business makes after tax and other deductions; often also classified as net profit.
Noteet	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 distributions.
Netcat	distributions.
Net-centric technologies Netware	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 is the Internet, where the network is its primary concern. A popular local area network (LAN) operating system (OS) developed by the Novell Corp.
	(2) организация (2)
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. br/> strong>Scope Notes: For smaller 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. 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.
Network hop Network interface card (NIC)	obscuring his/her identify from the victim of the attack. A communication card that when inserted into a computer, allows it to communicate with other computers on a network. strong>Scope Notes: Most NICs are designed for a particular type of network or protocol.
Network interface card (NIC) Node	obscuring his/her identify from the victim of the attack. A communication card that when inserted into a computer, allows it to communicate with other computers on a network. strong>Scope Notes: Most NICs are designed for a particular type of network or protocol. Point at which terminals are given access to a network. Disturbances in data transmissions, such as static, that cause messages to be misinterpreted by the
Network interface card (NIC)	obscuring his/her identify from the victim of the attack. A communication card that when inserted into a computer, allows it to communicate with other computers on a network. computers on a network. particular type of network or protocol. Point at which terminals are given access to a network.
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Network interface card (NIC) Node	obscuring his/her identify from the victim of the attack. A communication card that when inserted into a computer, allows it to communicate with other computers on a network. br/> Scope Notes: Most NICs are designed for a particular type of network or protocol. Point at which terminals are given access to a network. Disturbances in data transmissions, such as static, that cause messages to be misinterpreted by the 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. br/> Scope Notes: 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
Network interface card (NIC) Node	obscuring his/her identify from the victim of the attack. A communication card that when inserted into a computer, allows it to communicate with other computers on a network. br/>>br/>>trong>Scope Notes: Most NICs are designed for a particular type of network or protocol. Point at which terminals are given access to a network. Disturbances in data transmissions, such as static, that cause messages to be misinterpreted by the 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. br/>>tr/> br/>>trong>Scope Notes: 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
Network interface card (NIC) Node	obscuring his/her identify from the victim of the attack. A communication card that when inserted into a computer, allows it to communicate with other computers on a network. strong>Scope Notes: Most NICs are designed for a particular type of network or protocol. Point at which terminals are given access to a network. Disturbances in data transmissions, such as static, that cause messages to be misinterpreted by the 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: 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

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
Nonropudiation	origin of the data and that can be verified by a third party. <pre></pre> <pre></pre>
Nonrepudiation Normalization	A digital signature can provide non-repudiation. 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. //br/>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.
9, 1	A methodology of modifying network address information in IP datagram packet headers while they
Notice all address two platics (NAT)	are in transit across a traffic routing device for the purpose of remapping one IP address space into
Network address translation (NAT)	another 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.
Network news transfer protocol (NNTP)	(RFC 3977)
, and the second	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. /> Scope Notes: 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
Non-statistical campling	purpose of quickly confirming a proposition. This method does not allow drawing mathematical
Non-statistical sampling	conclusions on the entire population. A limited or single-use, typically small value used as an initialization, seed, or other special-purpose
nonce	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
	techniques. Scope Notes: For example, OMG is known principally for
Object management group (OMG)	promulgating the Common Object Request Broker Architecture (CORBA) 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). Scope 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 structure or methods defined in one or more other classesa relationship known as inheritance.
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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". Scope Notes: 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
Object-oriented system development	centered around designing the objects that will make up a program. Any object-oriented program is one that is composed of objects or software parts.
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Offline files	centered around designing the objects that will make up a program. Any object-oriented program is one that is composed of objects or software parts. Computer file storage media that are not physically connected to the computer; typical examples are tapes or tape cartridges used for backup purposes. 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. Achieved by entering information into the computer via a video display
Offline files Offsite storage	centered around designing the objects that will make up a program. Any object-oriented program is one that is composed of objects or software parts. Computer file storage media that are not physically connected to the computer; typical examples are tapes or tape cartridges used for backup purposes. 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. Achieved by entering information into the computer via a video display terminal. br/> Scope Notes: With online data processing, the computer
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Offline files Offsite storage Online data processing Open Source Security Testing Methodology	centered around designing the objects that will make up a program. Any object-oriented program is one that is composed of objects or software parts. Computer file storage media that are not physically connected to the computer; typical examples are tapes or tape cartridges used for backup purposes. 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. Achieved by entering information into the computer via a video display terminal. br/> strong>Scope Notes: With online data processing, the computer immediately accepts or rejects the information as it is entered. An open and freely available methodology and manual for security testing. 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. components to build competitive systems. components to build competitive systems. components in functional program that runs the computer and acts as a scheduler and traffic
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Offsite storage Online data processing Open Source Security Testing Methodology Open system	centered around designing the objects that will make up a program. Any object-oriented program is one that is composed of objects or software parts. Computer file storage media that are not physically connected to the computer; typical examples are tapes or tape cartridges used for backup purposes. 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. Achieved by entering information into the computer via a video display terminal. cstrong>Scope">cstes: c/strong>With online data processing, the computer immediately accepts or rejects the information as it is entered. An open and freely available methodology and manual for security testing. 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.Scope">cstes: c/strong>The advantages of using open systems include portability, interoperability and integration. A master control program that runs the computer and acts as a scheduler and traffic controller.Scope">cope Notes: c/strong>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
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Ontical common	An input device that reads characters and images that are printed or painted on a paper form into
Optical scanner Organization	the computer. The manner in which an enterprise is structured; can also mean the entity.
	An international organization helping governments tackle the economic, social and governance challenges of a global economy. strong>Scope Notes: The OECD groups 30
Organization for Economic Cooperation and Development (OECD) Outcome	member countries in a unique forum to discuss, develop, and refine economic and social policies. Result Represents the consequences of actions previously taken; often referred to as a lag
	indicator. 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
Outcome measure	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."
Output analyzer	Checks the accuracy of the results produced by a test run. <fromp>Scope Notes: 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 the file of output results and reports compliance or noncompliance.</fromp>
Outsourcing	A formal agreement with a third party to perform IS or other business functions for an enterprise.
Objective	Statement of a desired outcome A component of a governance system. Includes the enterprise and its structures, hierarchies and
Organizational structure	dependencies. committee br/> committee committ
	Individual or group that holds or possesses the rights of and the responsibilities for an enterprise, entity or asset. Scope Notes: Examples: process owner, system owner >COBIT
Owner	5 perspective
Obfuscation	The deliberate act of creating source or machine code that is difficult for humans to understand 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
Open Systems Interconnect (OSI) model	to implement its functionality. There are seven layers in the OSI model. An open community dedicated to enabling organizations to conceive, develop, acquire, operate, and
Open Web Application Security Project (OWASP)	maintain applications that can be trusted
	Data unit that is routed from source to destination in a packet-switched network. Scope Notes: A packet contains both routing information and
Packet	data. Transmission Control Protocol/Internet Protocol (TCP/IP) is such a packet-switched network.
Packet filtering	Controlling access to a network by analyzing the attributes of the incoming and outgoing packets and either letting them pass, or denying them, based on a list of rules.
	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. Scope Notes: It works by sending 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
Packet internet groper (PING)	freeware and shareware PING utilities available for personal computers (PCs). The process of transmitting messages in convenient pieces that can be reassembled at the
Packet switching	destination. A walk-through of the steps of a regular test, but without actually performing the
Paper test	steps. Scope Notes: Usually used in disaster recovery and contingency testing; team members review and become familiar with the plans and their specific roles and responsibilities
raper test	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
Parallel simulation	data. Scope 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 (possibly the original system), and comparing results to demonstrate the consistency and
Parallel testing	inconsistency between two versions of the application. A general hardware control that helps to detect data errors when data are read from memory or communicated from one computer to another. br/> 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.
Parity check	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
Partitioned file	each sub file.
	Intruders attempt to learn some characteristic of the data being transmitted. transmitted. 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
Passive assault	and destination identifiers attached to a message for routing purposes, or they may examine the lengths and frequency of messages being transmitted.
Passive response	A response option in intrusion detection in which the system simply reports and records the problem detected, relying on the user to take subsequent action.
Password	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.
Patch management	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. sinclude 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 as part of change management.
Payback period	The length of time needed to recoup the cost of capital investment. Financial 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.
	A financial system that establishes the means for transferring money between suppliers and users of
Payment system Payment system	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. 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.
Performance driver	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.". 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 indicators (KPIs) and are used to indicate whether goals are likely to be met.
Performance indicators	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 or external benchmarks, industry best practices and international standards.
Performance management	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 measurement.
renormance management	monitoring of the measurement.
Performance testing Peripherals	Comparing the system's performance to other equivalent systems, using well-defined benchmarks. Auxiliary computer hardware equipment used for input, output and data storage. Scope Notes: Examples of peripherals include disk drives and printers.
Personal digital assistant (PDA)	Also called palmtop and pocket computer, PDA is a handheld device that provide computing, Internet, networking and telephone characteristics.
Personal identification number (PIN)	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. individual. />cybr/> Scope Notes: PINs have been adopted by financial 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.
Phase of BCP	A step-by-step approach consisting of various phases of BCP is usually comprised of the following phases: pre-implementation phase, implementation 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. br/> Scope Notes: 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. Alternative attacks may seek to obtain apparently innocuous business information, which may be
Phishing Phreakers	used in another form of active attack. Those who crack security, most frequently telephone and other communication networks.
Piggybacking Plaintext	 Following an authorized person into a restricted access area.
Platform as a Service (PaaS)	Offers the capability to deploy onto the cloud infrastructure customer-created or -acquired 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).
Point-of-presence (POP)	A telephone number that represents the area in which the communication provider or Internet service provider (ISP) provides service. Enables the capture of data at the time and place of transaction. Enables the capture of data at the time and place of transaction. Enables the capture of data at the time and place of transaction. Enables the capture of data at the time and place of transaction.
	POS terminals may include use of optical scanners for use with bar codes or magnetic card readers for use with credit cards. POS systems may be online to a central computer or may use standalone 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.

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Program structure.		
	Program	
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	Shows the sequence of instructions in a single program or subroutine. <br< th=""></br<>
Program flowchart	Notes: The symbols used in program flowcharts should be the internationally accepted standard. Program flowcharts should be updated when necessary.
Program narrative	Provides a detailed explanation of program flowcharts, including control points and any external input.
	A structured set of activities concerned with delivering a defined capability (that is necessary but not sufficient, to achieve a required business outcome) to the enterprise based on an agreed-on
Project	schedule and budget. The individual function responsible for the implementation of a specified initiative for supporting the
Project management officer (PMO)	project management role and advancing the discipline of project management.
	The set of projects owned by a company. strong>Scope Notes: It usually includes the main guidelines relative to each project, including objectives, costs, time lines and other
Project portfolio	information specific to the project. Group of people responsible for a project, whose terms of reference may include the development,
Project team	acquisition, implementation or maintenance of an application system. 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.
Protection domain Protocol	The area of the system that the intrusion detection system (IDS) is meant to monitor and protect. 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.
	A set of utilities that implement a particular network protocol. Scope Notes:
Protocol stack	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.
	The process of quickly putting together a working model (a prototype) in order to test various
	aspects of a design, illustrate ideas or features and gather early user feedback. Scope Notes: Prototyping uses programmed simulation
	techniques to represent a model of the final system to the user for advisement and critique. The
Prototyping	emphasis is on end-user screens and reports. Internal controls are not a priority item since this is only a model.
71 0	A server that acts on behalf of a user. Scope Notes: Typical proxies
Proxy server	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 to a remote destination on behalf of the user.
·	In an asymmetric cryptographic scheme, the key that may be widely published to enable the
Public key	operation of the scheme. A cryptographic system that uses two keys: one is a public key, which is known to everyone, and the
Public key encryption	second is a private or secret key, which is only known to the recipient of the message. See also Asymmetric Key.
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.
Deinainla	An component of a governance system. Principles translate desired behavior into practical guidance
Principle	for day-to-day management. A statement describing the desired outcome of a process. Scope Notes:
Process goals	An outcome can be an artifact, a significant change of a state or a significant capability improvement of other processes. cbr/>COBIT 5 perspective
Program and project management office (PMO)	The function responsible for supporting program and project managers, and gathering, assessing and reporting information about the conduct of their programs and constituent projects
Patch	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.
Port (Port number)	A process or application-specific software element serving as a communication endpoint for the Transport Layer IP protocols (UDP and TCP)
Port scanning Prime number	The act of probing a system to identify open ports A natural number greater than 1 that can only be divided by 1 and itself.
Principle of least privilege/access	Controls used to allow the least privilege access needed to complete a task
Probe	Inspect a network or system to find weak spots The application of relevant knowledge and experience in making informed decisions about the
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Due fereit and its decree at	courses of action that are appropriate in the circumstances of the IS audit and assurance
Professional judgement	courses of action that are appropriate in the circumstances of the IS audit and assurance engagement An attitude that includes a questioning mind and a critical assessment of audit
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	A system that outlines the policies and procedures necessary to improve and control the various
Quality management system (QMS)	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. Scope Notes: The quick ship solution usually provides
Quick ship	enterprises with the ability to recover within 72 or more hours.
	Being fit for purpose (achieving intended value) Scope Notes: COBIT 5
Quality	perspective
RACI chart	Illustrates who is Responsible, Accountable, Consulted and Informed within an organizational framework.
RACI CIIdi t	The superposition of two or more radio waves resulting in a different radio wave pattern that is
Radio wave interference	more difficult to intercept and decode properly.
	The computer's primary working memory. <pre>computer's primary working memory.</pre>
Random access memory (RAM)	RAM can be accessed randomly regardless of adjacent bytes.
Range check	Range checks ensure that data fall within a predetermined range.
	A methodology that enables enterprises to develop strategically important systems faster, while
David application development	reducing development costs and maintaining quality by using a series of proven application
Rapid application development	development techniques, within a well-defined methodology. Analysis that is performed on a continuous basis, with results gained in time to alter the run-time
Real-time analysis	system.
Treat time analysis	An interactive online system capability that immediately updates computer files when transactions
Real-time processing	are initiated through a terminal.
	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
Pacing and agreement	applications. sgraament promise to provide processing time to each other when an emergency arises
Reciprocal agreement	agreement promise to provide processing time to each other when an emergency arises.
Record	A collection of related information that is treated as a unit. Scope Notes: Separate fields within the record are used for processing of the information.
record	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
	earliest point in time that is acceptable to recover the data. The RPO effectively quantifies the
Recovery point objective (RPO)	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. other major outage. cbr/> Scope Notes: Plans and methodologies are
	determined by the enterprise's strategy. There 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
Recovery strategy	or 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 (77220) (
Dada lara	Files maintained by a system, primarily a database management system (DBMS), for the purpose of
Redo logs Redundancy check	reapplying changes following an error or outage recovery. Detects transmission errors by appending calculated bits onto the end of each segment of data.
neutridaticy check	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. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems. systems.
	prolong their functionality. An example is a software code translator that can take an existing
Reengineering	hierarchical database system and transpose it to a relational database system. Computer-aided 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.
	The general purpose of a database is to store and retrieve related
	information. strong>Scope Notes: Database management systems have
	evolved from hierarchal to network to relational models. Today, the most widely accepted database
Polational database management system (PDRMS)	model is the relational model. The relational model has three major aspects: structures, operations
Relational database management system (RDBMS)	and integrity rules. An Oracle database is a collection of data that is treated as a unit. Audit evidence is relevant if it pertains to the audit objectives and has a logical relationship to the
Relevant audit evidence	findings and conclusions it is used to support.
	0. aa. 22
Reliable audit evidence	Audit evidence is reliable if, in the IS auditor's opinion, it is valid, factual, objective and supportable.
	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. Scope Notes:
	Originally coined by Microsoft when referring to their built-in NT remote access tools, RAS
	was a service provided by Windows NT which allowed most of the services that would be available
	on a network to be accessed over a modem link. Over the years, many vendors have provided both hardware and software solutions to gain remote access to various types of networked information.
	In fact, most modern routers include a basic RAS capability that can be enabled for any dial-up
Remote access service (RAS)	interface.

Domato Authorities Diel in Hear Comice (DADIIIC)	A type of service providing an authentication and accounting system often used for dial-up and
Remote Authentication Dial-in User Service (RADIUS)	remote access security. The transmission of job control language (JCL) and batches of transactions from a remote terminal
Remote job entry (RJE)	location.
	The traditional Internet service protocol widely used for many years on UNIX-based operating
	systems and supported by the Internet Engineering Task Force (IETF) that allows a program on one computer to execute a program on another (e.g., server). systems and supported by the Internet Engineering Task Force (IETF) that allows a program on one computer to execute a program on another (e.g., server). br/> systems and supported by the Internet Engineering Task Force (IETF) that allows a program on one computer to execute a program on another (e.g., server). systems and supported by the Internet Engineering Task Force (IETF) that allows a program on one computer to execute a program on another (e.g., server). systems and supported by the Internet Engineering Task Force (IETF) that allows a program on one computer to execute a program on another (e.g., server). systems and supported by the Internet Engineering Task Force (IETF) that allows a program on one computer to execute a program on another (e.g., server). systems are systems and the systems are systems are systems.
	// strong>The primary benefit derived from its use is that a system developer need not develop
	specific procedures for the targeted computer system. For example, in a client-server arrangement,
	the client program sends a message to the server with appropriate arguments, and the server returns a message containing the results of the program executed. Common Object Request Broker
	Architecture (CORBA) and Distributed Component Object Model (DCOM) are two newer object-
Remote procedure call (RPC)	oriented methods for related RPC functionality.
	A physical layer device that regenerates and propagates electrical signals between two network
	segments. segments. segments. segments. segments. segments. segments. segments.
	segment and amplify (regenerate) the signal to compensate for signals (analog or digital) distorted
Repeaters	by transmission loss due to reduction of signal strength during transmission (i.e., attenuation)
	In its broad computing sense, involves the use of redundant software or hardware elements to provide availability and fault-tolerant capabilities. In a database context, replication involves the
	sharing of data between databases to reduce workload among database servers, thereby improving
Replication	client performance while maintaining consistency among all systems.
Repository	An enterprise database that stores and organizes data. The denial by one of the parties to a transaction, or participation in all or part of that transaction, or
Repudiation	The denial by one of the parties to a transaction, or participation in all or part of that transaction, or of the content of communication related to that transaction.
·	The current and prospective effect on earnings and capital arising from negative public
	opinion. opinion. opinion. optablish now relationships or sorvices, or to continue sorvicing existing relationships. It may expect
	establish new relationships or services, or to continue servicing existing relationships. It may expose the bank to litigation, financial loss or a decline in its customer base. A bank's reputation can be
	damaged by Internet banking services that are executed poorly or otherwise alienate customers and
	the public. An Internet bank has a greater reputation risk as compared to a traditional brick-and-
Poputation rick	mortar bank, because it is easier for its customers to leave and go to a different Internet bank and
Reputation risk	since it cannot discuss any problems in person with the customer. A document that has been approved by the Internet Engineering Task Force (IETF) becomes an RFC
	and is assigned a unique number once published. <
Request for comments (RFC)	RFC gains enough interest, it may evolve into an Internet standard.
Request for proposal (RFP)	A document distributed to software vendors requesting them to submit a proposal to develop or provide a software product.
	A technique used in which the affected user groups define the requirements of the system for
Danning was a definition	meeting the defined needs. Scope Notes: Some of these are business-,
Requirements definition	regulatory-, and security-related requirements as well as development-related requirements.
Requirements definition Residual risk	regulatory-, and security-related requirements as well as development-related requirements. The remaining risk after management has implemented a risk response.
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	A condition that can influence the frequency and/or magnitude and, ultimately, the business impact
Risk factor	of IT-related events/scenarios A metric capable of showing that the enterprise is subject to, or has a high probability of being
Risk indicator	subject to, a risk that exceeds the defined risk appetite
	1. The coordinated activities to direct and control an enterprise with regard to risk Strong control is used
	as a synonym for "measure." (ISO/IEC Guide 73:2002) 2. One of the governance
	objectives. Entails recognizing risk; assessing the impact and likelihood of that risk; and developing strategies, such as avoiding the risk, reducing the negative effect of the risk and/or transferring the
	risk, to manage it within the context of the enterprise's risk appetite. Scope
Risk management	Notes: COBIT 5 perspective
Risk map	A (graphic) tool for ranking and displaying risk by defined ranges for frequency and magnitude.
Risk mitigation	The management of risk through the use of countermeasures and controls 1. A method to identify interdependencies and interconnections among risk, as well as the effect of
	risk responses on multiple types of risk.
	multiple types of risk (e.g., cascading and coincidental threat types/scenarios, risk concentration/correlation across silos) and the potential effect of risk response across multiple types
Risk portfolio view	of risk.
Risk tolerance	The acceptable level of variation that management is willing to allow for any particular risk as the enterprise pursues its objectives.
	The process of assigning risk to another enterprise, usually through the purchase of an insurance
	policy or by outsourcing the service. Scope Notes: Also known as risk sharing
Risk transfer	
Risk treatment	The process of selection and implementation of measures to modify risk (ISO/IEC Guide 73:2002).
Poot cause analysis	A process of diagnosis to establish the origins of events, which can be used for learning from
Root cause analysis	consequences, typically from errors and problems. A software suite designed to aid an intruder in gaining unauthorized administrative access to a
Rootkit	computer system.
	A fail-over process in which there are two nodes (as in idle standby but without priority). Scope Notes: The node that enters the cluster first owns the
Rotating standby	resource group, and the second will join as a standby node.
	A method of computer fraud involving a computer code that instructs the computer to remove small
	amounts of money from an authorized computer transaction by rounding down to the nearest
Rounding down	whole value denomination and rerouting the rounded off amount to the perpetrator's account. A networking device that can send (route) data packets from one local area network (LAN) or wide
	area network (WAN) to another, based on addressing at the network layer (Layer 3) in the open
	systems interconnection (OSI) model. Scope Notes: Networks connected by routers can use different or similar networking protocols. Routers usually are capable
	of filtering packets based on parameters, such as source addresses, destination addresses, protocol
Router	and network applications (ports). An interface between data terminal equipment and data communications equipment employing
RS-232 interface	serial binary data interchange.
	A public key cryptosystem developed by R. Rivest, A. Shamir and L. Adleman used for both encryption and digital signatures. > >in A. Shamir and L. Adleman used for both encryption and digital signatures.
	different keys, the public encryption key and the secret decryption key. The strength of the RSA
RSA	depends on the difficulty of the prime number factorization. For applications with high-level security, the number of 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.
Posourco	Any enterprise asset that can help the organization achieve its objectives Notes: COBIT 5 and COBIT 2019 perspective
Resource	Notes: COBIT 5 and COBIT 2019 perspective One of the governance objectives. Involves effective, efficient and responsible use of all
Descurse entimization Descurse entire in the	resources—human, financial, equipment, facilities, etc. c/ctrong-Scope Notes:
Resource optimizationResource optimization Ransomware	COBIT 5 and COBIT 2019 perspective 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
Recovery	to a condition specified in the service delivery objectives (SDOs) or business continuity plan (BCP)
Registered ports	Registered ports1024 through 49151: Listed by the IANA and on most systems can be used by ordinary user processes or programs executed by ordinary users
Regulation	Rules or laws 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 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. https://www.ncbernelevant.nc
Relevant information	information quality goals
Reliable information	Information that is accurate, verifiable and from an objective source. Notes: Refer to COBIT 5 information quality goals
Neliable IIIIOIIIIatioii	After vulnerabilities are identified and assessed, appropriate remediation can take place to mitigate
Remediation Removable modifies	or eliminate the vulnerability
114/1771/11/11/11/11/11/11/11/11/11/11/11/1	AND THE STATE OF T
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)

	A signed or oral statement issued by management to professionals, where management declares
Representation	that a current or future fact (e.g., process, system, procedure, policy) is or will be in a certain state, to the best of management's knowledge.
Return-oriented attacks	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 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
Risk reduction	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
Risk response	(usually depending on budgets available) falls within risk appetite limits.
	The tangible and assessable representation of risk. Scope Notes: One of the key information items needed to identify, analyze and respond to risk (COBIT 2019 Process
Diel	APO12)
Risk scenario	Scope Notes: See Risk transfer
Risk sharing	A description of the current conditions that may lead to the loss; and a description of the loss
	Source: Software Engineering Institute (SEI)
	<pre> Scope Notes: For a risk to be understandable, it must be expressed clearly. Such a treatment must include a description of the current conditions that may lead to the</pre>
Risk statement	loss; and a description of the loss.
nisk statement	Randomness or entropy is an important concept in many cryptographic implementations. It is used
	to create keys; generate initialization vectors (i.e., random values that "seed‮r initialize an algorithm); generate nonces (i.e., single-use, disposable values); and supply padding (additional data
randomness	completing a block of fixed length).
Safeguard	A practice, procedure or mechanism that reduces risk. A method of computer fraud involving a computer code that instructs the computer to slice off small
	amounts of money from an authorized computer transaction and reroute this amount to the
Salami technique	perpetrator's account. The probability that an IS auditor has reached an incorrect conclusion because an audit sample,
	rather than the entire population, was tested. strong>Scope Notes: While
Sampling rick	sampling risk can be reduced to an acceptably low level by using an appropriate sample size and
Sampling risk	selection method, it can never be eliminated. A method used in the information processing facility (IPF) to determine and establish the sequence
Scheduling	of computer job processing.
	Also called requirement creep, this refers to uncontrolled changes in a project's scope. scope. scope. scope of a project
	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. Identifying the boundary or extent to which a process, procedure, certification, contract, etc.,
Scoping process	applies.
Screening routers	A router configured to permit or deny traffic based on a set of permission rules installed by the administrator.
Screening routers	A protocol that is used to transmit private documents through the
Secure Sockets Layer (SSL)	Internet. Scope Notes: The SSL protocol uses a private key to encrypt the data that are to be transferred through the SSL connection.
Secure Sockets Layer (SSL)	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: Security and the levels of security
	appropriate to the enterprise The importance of security and consequences of a lack of security (and act
	accordingly). Scope Notes: This definition is based on the definition
Security awareness	for IT security awareness as defined in Implementation Guide: How to Make Your Organization Aware of IT Security, European Security Forum (ESF), London, 1993
Jesuity awareness	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.
	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
Security awareness coordinator	trained, campaigns are scheduled, events are publicized and the program as a whole moves forward.
	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. Scope 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	security awareness program is not a one-time effort, but a continuous process.

	Responsible for information security governance within the enterprise. **Strong**Scope*** **The second of the second
	Notes: 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: Defining a security strategy in line with the
	business strategy
	enhance information security
	incidents Monitoring significant changes in the exposure of information assets to major
Security forum	threats
·	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
Security incident	required and the people who need to be notified are identified.
	The process of establishing and maintaining security for a computer or network
	system. Scope Notes: The stages of the process of security
	management include prevention of security problems, detection of intrusions, and investigation of
	intrusions and resolution. In network management, the stages are: controlling access to the
	network and resources, finding intrusions, identifying entry points for intruders and repairing or
Security management Security matrices	otherwise closing those avenues of access.
Security metrics Security perimeter	A standard of measurement used in management of security-related activities. The boundary that defines the area of security concern and security policy coverage.
Security perimeter	A high-level document representing an enterprise's information security philosophy and
Security policy	commitment.
5555. Ny poncy	The formal documentation of operational steps and processes that specify how security goals and
Security procedures	objectives set forward in the security policy and standards are to be achieved.
	Software used to administer security, which usually includes authentication of users, access granting
Security software	according to predefined rules, monitoring and reporting functions.
	Practices, directives, guidelines, principles or baselines that state what needs to be done and focus
	areas of current relevance and concern; they are a translation of issues already mentioned in the
Security standards	security policy.
	Ensuring that the modified or new system includes appropriate controls and does not introduce any
Security testing	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.
	service offered, and it encompasses product development and delivery, transaction processing,
	systems development, computing systems, complexity of products and services and the internal
Constitutibulance ation sigh	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. assets.
	used in large IT organizations so that no single person is in a position to introduce fraudulent or
Segregation/separation of duties (SoD)	malicious 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. Scope Notes:
Sequence check	Can be alpha or numeric and usually utilizes a key field
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	A script written for the shell, or command line interpreter, of an operating system; it is often
	considered a simple domain-specific programming language. Scope Notes:
	Typical operations performed by shell scripts include file manipulation, program execution
	and printing text. Usually, shell script refers to scripts written for a UNIX shell, while command.com
	(DOS) and cmd.exe (Windows) command line scripts are usually called batch files. Many shell script
	interpreters double as a command line interface such as the various UNIX shells, Windows
	PowerShell or the MS-DOS command.com. Others, such as AppleScript, add scripting capability to
	computing environments lacking a command line interface. Other examples of programming languages primarily intended for shell scripting include digital command language (DCL) and job
Shell programming	control language (JCL).
Shell programming	The procedure performed by a user to gain access to an application or operating
	system. system. system. system. system.
Sign-on procedure	authenticated by the system's security, they will be able to access the software.
	A fail-over process in which the primary node owns the resource group. Scope
	Notes: The backup node runs a non-critical application (e.g., a development or test
Simple fail-over	environment) and takes over the critical resource group, but not vice versa.
Simple Mail Transport Protocol (SMTP)	The standard electronic mail (e-mail) protocol on the Internet
	A platform-independent formatted protocol based on extensible markup language (XML) enabling
	applications to communicate with each other over the Internet. Scope Notes:
	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
Simple Object Access Protocol (SOAP)	message to the client.
Single point of failure	A resource whose loss will result in the loss of service or production.
S. B.	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
	their relationships.
Slack time (float)	"float" and generally is not "owned" by either party to the transaction.
	Specific, measurable, attainable, realistic and timely, generally used to describe appropriately set
SMART	goals
	A small electronic device that contains electronic memory, and possibly an embedded integrated
	circuit. Scope Notes: Smart cards can be used for a number of purposes
	including the storage of digital certificates or digital cash, or they can be used as a token to
Smart card	authenticate users.
C .tff	The act of capturing network packets, including those not necessarily destined for the computer
Sniff	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.
Jocial engineering	Programs and supporting documentation that enable and facilitate use of the
	rrograms and supporting documentation that chable and radiitate use of the
	computer <hr/> <hr/> Scope Notes: Software controls the operation of the
Software	computer. Scope Notes: Software controls the operation of the hardware and the processing of data.
Software	hardware and the processing of data.
Software	
Software Software as a service (SaaS)	hardware and the processing of data. Offers the capability to use the provider's applications running on cloud infrastructure. The
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	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. Scope Notes:
	Spool allows more efficient electronic data transfers from one device to another by
	permitting higher speed sending functions, such as internal memory, to continue on with other
SPOOL (simultaneous peripheral operations online)	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. Scope Notes: 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
	next set of activities on a program or project, to stop the work altogether, or to put a hold on
Stage-gate	execution of further work.
	A mandatory requirement, code of practice or specification approved by a recognized external
Standard	standards organization, such as International Organization for Standardization (ISO).
	Permanent reference data used in transaction processing. Scope Notes: These data are changed infrequently, such as a product price file or a name and address
Standing data	file.
Standing data	A type of local area network (LAN) architecture that utilizes a central controller to which all nodes
	are directly connected. strong>Scope Notes: With star topology, all
	transmissions 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
Star topology	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
Chatiatian annualina	probabilities, for the purpose of making scientifically and mathematically sound inferences regarding
Statistical sampling	the characteristics of the entire population.
	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. <pre> storage devices to servers and other computing devices. <pre> storage devices to servers and other computing devices.</pre></pre>
Storage area networks (SANs)	
Storage area networks (S/NS)	The process of deciding on the enterprise's objectives, on changes in these objectives, and the
Strategic planning	policies to govern their acquisition and use.
	A combination of an organizational audit listing the enterprise's strengths and weaknesses and an
Strengths, weaknesses, opportunities and threats (SWOT)	environmental scan or analysis of external opportunities and threats.
	A top-down technique of designing programs and systems that makes programs more readable,
Structured programming	more reliable and more easily maintained.
	The primary language used by both application programmers and end users in accessing relational
Structured Query Language (SQL)	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).
outlest matter	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
Sufficient audit evidence	the same conclusions.
	A concept that allows an enterprise to more effectively and efficiently manage the activities of
Supply chain management (SCM)	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. Scope Notes:
	proper disposition of that information can be determined. Scope Notes: Once the proper disposition of the item is determined, it should be removed from the
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Symmetric key encryption Synchronize (SYN) Synchronous transmission System development life cycle (SDLC)	proper disposition of that information can be determined. Conce 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 to a new application. Typically associated as a data link layer device, switches enable local area network (LAN) segments to be created and interconnected, which has the added benefit of reducing collision domains in Ethernet-based networks. 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. A flag set in the initial setup packets to indicate that the communicating parties are synchronizing the 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. system. system. system. system. systex and implement an application system or a major modification to an application system. 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. Special system software features and utilities that allow the user to perform complex system maintenance. system software features and utilities that allow the user to perform permits the user
Symmetric key encryption Synchronize (SYN) Synchronous transmission	proper disposition of that information can be determined. <pre>c/strong>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 to a new application. Typically associated as a data link layer device, switches enable local area network (LAN) segments to be created and interconnected, which has the added benefit of reducing collision domains in Ethernet-based networks. 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. A flag set in the initial setup packets to indicate that the communicating parties are synchronizing the 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.</pre> system. Syr/> /br/>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. 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. Special system software features and utilities that allow the user to perform complex system maintenance. sprogramming the security access control system.
Symmetric key encryption Synchronize (SYN) Synchronous transmission System development life cycle (SDLC)	proper disposition of that information can be determined. <a ch<="" chr="" href="https://chr/chr/chr/chr/chr/chr/chr/chr/chr/ch</td></tr><tr><td>Symmetric key encryption Synchronize (SYN) Synchronous transmission System development life cycle (SDLC)</td><td>proper disposition of that information can be determined.
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	Provides an overview explanation of system flowcharts, with explanation of key control points and
System narrative	system interfaces.
	A collection of computer programs used in the design, processing and control of all applications.
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 specified requirements. specified requirements.
System testing	are performed by the system maintenance staff in their development library.
	Procedures established to purchase application software, or an upgrade, including evaluation of the
Systems acquisition process	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 <
Service catalogue	COBIT 5 perspective
Service dutaiogue	The learned capacity to achieve pre-determined results strong>Scope Notes:
21	COBIT 5 and COBIT 2019 perspective
Skill	Anyone who has a responsibility for, an expectation from or some other interest in the enterprise.
	<pre> Scope Notes: Examples: shareholders, users, government, suppliers,</pre>
Stakeholder	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 Scope Notes: COBIT 5 perspective
System of internal control	The process of dividing a population into subpopulations with similar characteristics explicitly
Sampling stratification	defined, so that each sampling unit can belong to only one stratum
	A standard that will ensure that credit card and associated payment order information travels safely
Secure Electronic Transaction (SET)	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) Network protocol that uses cryptography to secure communication, remote command line login and
Secure Shell (SSH)	remote command execution between two networked computers
	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. Scope Notes: 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.
Significant deficiency Single factor authentication (SFA)	Authentication process that requires only the user ID and password to grant access
	Software (computer code) that automatically execcutes transactions and/or enforces agreements
	based on the fulfillment of the terms of the agreement by leveraging decentralized ledger
Smart contract	technology that uses public validation to ensure correct and reliable performance according to agreed rules.
	A transmission technique where the sender of a packet can specify the route that packet should
Source routing specification	follow through the network Computer-generated messages sent as unsolicited advertising
Spam	An attack where social engineering techniques are used to masquerade as a trusted party to obtain
Spear phishing	important information such as passwords from the victim
	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 possible to glean information from the database in ways not envisaged during application design.
SQL injection	(MITRE)
Chataful inspection	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
	The measure of the quantity of audit evidence; supports all material questions to the audit objective
Sufficient evidence	and scope. //br/> Scope Notes: See evidence
	Information is sufficient when evaluators have gathered enough of it to form a reasonable conclusion. For information to be sufficient, however, it must first be
Sufficient information	suitable. Scope Notes: 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. />c/br/> Scope Notes: 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
System hardening	A process to eliminate as many security risks as possible by removing all nonessential software programs, protocols, services and utilities from the system
Secure Shell (SSH)	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.

Tons	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. 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. Electronic communication by special devices over distances or around devices that preclude direct
Telecommunications	interpersonal exchange.
Teleprocessing	Using telecommunications facilities for handling and processing of computerized information.
	Network protocol used to enable remote access to a server computer. *Strong*Scope **Notation** (**June 10 Computer of the protocol used to enable remote access to a server computer.* **Notation** (**June 10 Computer of the protocol used to enable remote access to a server computer.* **Notation** (**June 10 Computer of the protocol used to enable remote access to a server computer.* **Notation** (**June 10 Computer of the protocol used to enable remote access to a server computer.* **Notation** (**June 10 Computer of the protocol used to enable remote access to a server computer.* **Notation** (**June 10 Computer of the protocol used to enable remote access to a server computer.* **Notation** (**June 10 Computer of the protocol used to enable u
Telnet Terminal Access Controller Access Control System Plus (TACACS+)	Notes: Commands typed are run on the remote server. An authentication protocol, often used by remote-access servers.
Terms of reference	An authentication protocol, often used by remote-access servers. 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
Test data	tested. <pre>class System Evaluations (BCSEs)</pre>
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. Scope Notes: Test programs, through a series of change
	control moves, migrate from the test environment to the production environment and become
Test programs	production programs. Test types include: Checklist testCopies of the business continuity plan (BCP) are distributed to
	appropriate personnel for review
	through the plan to ensure that the plan accurately reflects the enterprise's ability to recover
	successfully Simulation testAll operational and support personnel are expected to perform
	a simulated emergency as a practice session
Test types	alternate site (hot, cold, warm or reciprocal) Complete interruption testDisaster is replicated, normal production is shut down with real time recovery process
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
Third-party review	control structure is adequate, effective and sound. Anything (e.g., object, substance, human) that is capable of acting against an asset in a manner that
Threat	can result in harm. can result in harm.
	Methods and things used to exploit a vulnerability. 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
	 <br< td=""></br<>
Threat analysis	the likelihood of it materializing.
	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
Takan	password. strong>Scope Notes: 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. Scope Notes:
	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	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
Top lovel management	enterprise as a whole (such as director, general manager, partner, chief officer and executive
Top-level management	manager). The physical layout of how computers are linked together. strong>Scope Notes:
Topology	
	Includes the original cost of the computer plus the cost of: software, hardware and software
Total cost of ownership (TCO)	upgrades, maintenance, technical support, training, and certain activities performed by users.
	Business events or information grouped together because they have a single or similar purpose. br/> 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 logs are shipped as they are created.
Transaction protection	A connection-based Internet protocol that supports reliable data transfer
	connections. connections. connections. connections. connections.
	and retransmitted if they are missing or corrupted. The application plays no part in validating the
Transmission Control Protocol (TCP)	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: <ii>How the mechanism functions is clear to those who are affected by or want to</ii>
	challenge governance decisions A common vocabulary has been established Relevant
	information is readily available Scope Notes: Transparency and
	stakeholder trust are directly related; the more transparency in the governance process, the more
Transparency	confidence in the governance.
	Unauthorized electronic exit, or doorway, out of an authorized computer program into a set of
Trap door	malicious instructions or programs.
	Purposefully hidden malicious or damaging code within an authorized computer
	program. Scope Notes: 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.
Tunnel	The paths that the encapsulated packets follow in an Internet virtual private network (VPN).
	The paths that the charge paths of tener in an interior private heart (vi. 17).
	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
Tunneling	IPSec, Point-to-point Protocol Over Ethernet (PPPoE) and Layer 2 Tunneling Protocol (L2TP).
	A row or record consisting of a set of attribute value pairs (column or field) in a relational data
Tuple	structure.
	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	Person or asset selected as the aim of an attack
Threat vector	The path or route used by the adversary to gain access to the target
in eat vector	The path of route used by the adversary to gain access to the target
	Chronological graphs where events related to an incident can be manned to look for relationships in
	Chronological graphs where events related to an incident can be mapped to look for relationships in
	complex cases. //strong>Scope Notes: Timelines can provide simplified
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
Tolerable error	from a prescribed control procedure that the professionals are willing to accept
	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/> Scope Notes: Transport Layer Security
	(TLS) is composed of two layers: the TLS Record Protocol and the TLS Handshake Protocol. The TLS
	Record Protocol provines connection security with some encryption method such as the Data
	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
Franchort Laver Security (TLS)	Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS
Transport Layer Security (TLS)	Encryption Standard (DES). The TLS Record Protocol can also be used without encryption. The TLS Handshake Protocol allows
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	A connectionless Internet protocol that is designed for network efficiency and speed at the expense
	of reliability. Scope Notes: 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
User Datagram Protocol (UDP)	request retransmissions.
	Specialized system software used to perform particular computerized functions and routines that
	are frequently required during normal processing. Scope Notes:
Utility programs	Examples of utility programs include sorting, backing up and erasing data.
	A sequence of commands input into a single file to automate a repetitive and specific
Hallian a sector	task. task. strong>Scope Notes: 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. sortware vendor and used in running the system. Sortware vendor and used in running the system. Sortware vendor and used in running the system. Sortware vendor and used in running the system.
	examine processing activities; to test programs, system activities and operational procedures; to
Utility software	evaluate data file activity; and, to analyze job accounting data.
Uncertainty	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,
User interface impersonation	or 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.
	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
Val IT	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
Value	case of financial value) the time value of money.
Value-added network (VAN)	A data communication network that adds processing services such as error correction, data translation and/or storage to the basic function of transporting data.
	and the second of the second o
	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	Checks that data are entered correctly.
	Organization that has no official physical site presence and is made up of diverse, geographically
Virtual organizations	dispersed or mobile employees.
	A secure private network that uses the public telecommunications infrastructure to transmit data. data. data. data. data. data. data. data. data. data. data. data. data. data. data. data. data.
	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. //strong>Scope Notes: A virus may contain destructive code that can move
Virus	into multiple programs, data files or devices on a system and spread through multiple systems in a network.
VIIIUS	The file of virus patterns that are compared with existing files to determine whether they are
Virus signature file	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.
Vulnerability	A weakness in the design, implementation, operation or internal control of a process that could expose the system to adverse threats from threat events
Vulnerability Vulnerability analysis	A process of identifying and classifying vulnerabilities.
- 2	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. Scope Notes: From Jones, J.; "FAIR Taxonomy," Risk
Vulnerability event	Management Insight, USA, 2008
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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. Also known as traditional development, a procedure-focused development cycle with formal sign-off
Waterfall development	at the completion of each level. The business of providing the equipment and services required to host and maintain files for one or
Web hosting	more web sites and provide fast Internet connections to those sites. Notes: Most hosting is "shared," which means that web sites of multiple companies are on the same server to share/reduce costs.
web nosting	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. sometimes requiring the user to scroll to review the entire page. sometimes requiring the user to scroll to review the entire page.
	An enterprise's web page may display the enterprise's logo, provide information about the enterprise's products and services, or allow a customer to interact with the enterprise or third
Web page	parties that have contracted with the enterprise. Using the client-server model and the World Wide Web's HyperText Transfer Protocol (HTTP), Web
Web server	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
Web Services Description Language (WSDL)	the language used by Universal Description, Discovery and Integration (UDDI). See also Universal Description, Discovery and Integration (UDDI). Consists of one or more web pages that may originate at one or more web server
Web site	computers. computers. computers. computers. strong>Scope Notes: A person can view the pages of a web site in any order, as he/she would read a magazine.
White box testing	A testing approach that uses knowledge of a program/module's underlying implementation and code intervals to verify its expected behavior.
Wide area network (WAN)	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). 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
Wide area network (WAN) switch	A class of systems used to secure wireless (Wi-Fi) computer networks. Notes: WPA was created in response to several serious weaknesses that researchers found in the previous system, Wired Equivalent Privacy (WEP). WPA implements the majority of the IEEE 802.11i standard, and was intended as an intermediate measure to take the place of WEP while 802.11i was prepared. WPA is designed to work with all wireless network interface cards, but not necessarily with first generation wireless access points. WPA2 implements the full standard, but will not work with some older network cards. Both provide good security with two significant issues. First, either WPA or WPA2 must be enabled and chosen in preference to WEP; WEP is usually presented as the first security choice in most installation instructions. Second, in the "personal" mode, the most likely choice for homes and small offices, a pass phrase is required that, for full
Wi-Fi Protected Access (WPA) Windows NT	security, must be longer than the typical six to eight character passwords users are taught to employ. A version of the Windows operating system that supports preemptive multitasking.
	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/> strong>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.
Wired Equivalent Privacy (WEP)	Despite the weaknesses, WEP provides a level of security that can deter casual snooping. The ability of computing devices to communicate in a form to establish a local area network (LAN) without cabling infrastructure (wireless), and involves those technologies converging around IEEE
Wireless computing Wiretapping	802.11 and 802.11b and radio band services used by mobile devices. The practice of eavesdropping on information being transmitted over telecommunications links.
World Wide Web (WWW)	A sub network of the Internet through which information is exchanged by text, graphics, audio and video. An international consortium founded in 1994 of affiliates from public and private organizations involved with the Internet and the web. https://creativecommons.org/linearing-scope Notes: The W3C's
World Wide Web Consortium (W3C)	primary mission is to promulgate open standards to further enhance the economic growth of Internet web services globally.
Worm	A programmed network attack in which a self-replicating program does not attach itself to programs but rather spreads independently of users' action.
Wall-know parts	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.
Well-know ports Will Filiprotected access II (WPA2)	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 stronger encryption
Wi-Fi protected access II (WPA2) Wireless local area network (WLAN)	for stronger encryption. Two or more systems networked using a wireless distribution method A devices that allows the acquisition of information on a drive without creating the possibility of
Write blocker 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. 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.

X.500	A standard that defines how global directories should be structured. Notes: X.500 directories are hierarchical with different levels for each category of information, 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