CIASSMATE Ruset Micha MSC DFIS Q) . What is IT security Assessment and IT security Audit?

. IT security assessment is a study to locate IT security vulnerabilities and risks. . The benifile to a secure network are many and they have ability to protect wer confidentially secretion date regition · These types of security audits are : D lomplime with security regulations A security audit is the high level sweightion of the many ways organizations in test and acress their overall security, including upensecurity · Types of audit :-Internal audit Sectionated audit

CIASSMATE which stable fearthin and organizations arise and facial

CIASSMATE What is compliances and how to mintering IT compliance? I refer to certain guidline and organisation must fellow to What is the stope of an IT compliance audil?

The state of organization's loyally towards holding the rules of regulation's which includes internal rules, regulation policies and procedure given by government, security folicies, user · The hurhose behind conducting a compliance audit is to access the organization's compliance program is effective or not and verying out the non-compliance in front of management and Government nuthorities IT companies is taking control and potecting information, including how it is obtained and stored, how its secured its auntability and how date is protected.

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5)	14.7 1.	
7	What does your organisation do to be in compliance?	
	Of the speciality	
	· Use the right roflinge	
	Minary Warred 1. 1:	-
	· Schedule Regular internal quality	-
	Schedule Regular internal audite	_
6)		-
7	. Harry outlies believe as no let	-
7	· Harry outletes folices of no holices in hour	+0
	· dock of valorerability scarring and heretretion testing	+
	· Harry outlies policies or no policie in place ?  · dack of valuerability scarring and penetration testing.  · dack of two factor authorization from any four of access	-
	No date loss prevention plan in place	+
	· No date does prevention blan in place · Lock of keeping up to date OS, application update or retwork	1
D	2 11. 01	1
1	Explain Claring and implementation of an IT infratheuture.	
-2	Audit for compliance?	
	· Audit flaring should not be overlooked what goes into the	
	planing process directly effect the quality of the outcome.	43
	A proper plan ensures that serouses are bound on Il	-
	sight was and that potential problems are identified early	+
	A succeeful audit first outlines what's suffered to be achieved as well as what procedures will be followed and the required resources	+
	to jury out the procedure:	+
	· Altough each audit will vary, the plan and affront to sent audit	+
	follow similar characteristics. Depite the best plans, homen	+
	winnstone do change, and plans need to be adjusted. As a result	1
	bearily must be considered significant wors surjected freely, and	
	michigantetion can all have a consulrable offect when the will I	
	Ryselles from plancy help escure or effective and tirely audit	

	(5)	
0)	MA 1 1 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
8)	What he lotted and why are they infortant?	200
	· The environments of controls are made up largely of a losse	-
1	set of principles that apply across the various donaire. These	-
	basic principles embedded throughest security operations and	-
	admiristration management.	-
	· These includes the following:	-
	a) Defined roles and responsibilities.	-
	W) lookiguration and there management.	-
-3-	c) Environments for development text and production.	-
	d) Segregation of duties	-
	e) Identify and authentication	
	1) brauple of least priviles	
	g) Monitoring, measuring and reporting	1
L Br	n) Appropriate documentation	Ì
		1
9)	explain IT Audit process and types of feelity.  An IT audit is the process of investigation and accusement of	-
7	. In IT audit is the process of carestyption and accessment of	-
	IT systems, policie, operation, and infrastructure	-
-3-	· Type of audit:	-
	· Irternal audit	-
	· External audit	-
	· Marial audit	_
	· Automated audit	-
		=
	the state of the s	_
	1) we is an investigation of which while	
		-
-		=
The later of the l		

19	What is Computer Assisted Audit Technique and application		
	control for CART.		
-7	. Computer Secretar Audit techniques or CAATE can be defined		
	as an audition method that uses computer softener took to		
	guery brainers date to proceeding reports that will enhance as		
	whit. (AATs can sometimes be known as (AATs Clambuter Assisted		_
	Tools and Techniques) or BEASTX Respecial floatrons audit Suffort Tools)		
	a CAATE have been used for many wears to conflicul more		
J0 18	tradit without (ART, took include ACL (Mills)	10-	
	Commend Language), IDEN, Ereel, Auess and SQL Server		
_			
11)	Explain Seven Domaine of a Typical IT infrastructure in		
-1/	details.		_
-7	Las Donais: The Jan Donais includes all the things that makes up the Jan, wife and souther These devices consect all the morketation to one enables: The following risks in this donais		
	111 h. 1 11 la disconsistra There device convect all		
	Il that more up the can, when the following risks in this donain		
	the worklation to and anorth the speciality	-	
	a) IT employee may book the experience in designing or maintains a secure		
	a) 17 employes may beek the experience in assigning the		
	returns.		_
	Deach of securily policy governing return		
			_
	o das - to - Vas Domais - The das - to - Was Domais is	-	_
	where the corporate LAN connects to War The following hister can	-	_
	he exist in this domain:	-+	_
MINE TO		-	_
	1) No firend present.		
	16) 88x 09 mg mg		1
			1
1810			1
			+
			1
1 1			

Was Donain: The Was Donais is represented by the Internet and stands for Viole area natural. The following risk exist in this donain are:

a) Lack of the firewall and possibly unconfigured moder at the parameter could introduce many alleck. Renote access domain: The ROD is represented by any enfloyer or any person works in the field or from home, instead of office and access to coorporate LNW. The following risk in this domain:

a) Weak possioneds can lead to unautorized entry in the network. System 1 Application Domain - The system or Application Domain includes all system ( application related issues - The a) An enail not examed for view.
b) Lect of antimies software to protect company accets. Wes Demain - Almost 90% stacks could by human error. Ricks identified are:

a) conflictes fail to lock their computers

b) confloyer leave sensitive information on their deske. Workstition Donais - The workstation donain includes any computing devices were by end users and expressed how the user by 96 har drives can lead to feeling and the date loss Ob OS fruit with huge ruberability of information

DID How to identifying the Minimum Suptible deal of Risk and Appropriate Security in IT infrastructure.  - East an algorisation to develop security business it must nested that in flace manage the identified rate to a result, a rick assessment note.  - 9t might seem lossest to apply a wide range of controls based on different security when seems received associated with these controls.  - Remember that there are costs associated with these controls.  - Remember that there are costs associated with these controls.  - Remember that there are costs associated with these controls.  - Remember that there are costs associated with these controls.  - Remember that there are costs associated with these controls.  - Most popular investign strength:  - Most popular costs as consists strength strength security. I should be sometimed from the controls are executed for these organizations that procure or beautiff property and information.  - The requirement of PCI considers the gueral risks to proper and date and provide a varieties of present of subspection the souther states.  - The requirement of PCI considers the gueral risks to proper and date and provide a varieties otherwised to souther reducing risks to acceptable levels.	
Remember that there are costs associated with their controls band  • For example, you can take many different esteps to secure  your home and minings ricks.  • Most people consider door look as recursing from door look  are available in varying strengthi  • Payment card industry I all beauty standard (P(1 DSS) privates  an example of a concise set of baseline controls required for  those organisations that process on travel payment and information.  • The requirement of P(1 considers the gueral rick to figurest and  data and provide a baseline approach of subspaceding the sessition data.  • When a basic control encurronal is in place, organisation can  legin inflementing additional controls to continue reducing rick to	
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	operating Intermedian an experiention	
	of the critical information on organization needs to continue	
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	Solution Design	
	Burney Johnson Solution Design  Supplementation	
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	- Doming Design , Johnson The last the	
	The response will be delegated the state of	_
	morenesting influent aux management and military	<b>J</b>
	o Testing - Training the employee who are responsible brekesp and	100
	sepheation of rueses artered data of a regular basis or wherever	31
	Maisternance - To mintees the plan the solution and protection	
	Mainternance To meintain the plus the solution and protection	
	strategies and contiguery sciences:	
-		John

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-	Why Business fontinuly pleaning Required.
	Evenies tortimity planning Required.  ricks modules with a discussion of operation it I till heligate
	rick associated with a disruption of operation it details stell to be richtly of an event to maintain it.
	taker before during and after an event to maintain its firmuid  rightly of an organization also Duriele recovery is
	sectording responses also Dissiles recover in
	· bushit I
	DV. a bury a bury routinelle 1/-
P	2) Your Buries will be more prepared to hardle the washerful
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	y) Your Purious will invest in itself and its ability to bourse back.  after deposites.
	after directer and nance a plan to continu providing acceptable service
	Your huner will letter pregress its corporal reputation
(6)	Q.A. II Au
	Define the Gollowing terms.
• (	Disaster Recovery - It is a sentire flar for replanding after an event . It deals with the sefety and restoration of critical location continuity plan.
	event. It deals with the or least for responding after an
	and operations broadure after the pertoration of writing location
-	continuity Men.
-	II.
1	confluence - IT confluence besides legal intend or cost till
	make I I for the IT of an organization. these required are
0	conflience: - IT conflience bescules begal intend or contractically excited requirement for the IT of an organization these requirement are make up of minus requirement for IT receivily date, protection, availability and integrity that apply to exite
_	maying was exply to system.
Au	dit - It is an exercistion of the many of the
an	edit - It is an examination of the management controls within information technology infrastructure and business application
	and visitely application.
-	
-	

System Monitoring: It includes the certain country continuous monitoring of CPV server nearly northern smitches budmilth and application as well as the performance and unidability of inforted retwork devices. Q17) Gaplein Director Recovery & planning of DR. Disaster Recovery is a reactive plan for responding after an event. It deads with the safety and restruction of extrict personal location and operational procedure after a disaster is a past of human continuity planning DR plan is more focused than BRP and does not necessarily cover all continuity for human process assets human resources and business fastrees. How to identify of potential director status of any organization.

Identify the Sources of Rick: By addressing the major fields
of theat exposure, this phase details the framework for
rick ussessment to provide a suitable response Identify bries type - Threats either man made or natural are setuction or conditions that in cause disruption or crisis to an organization operation or services From the sources of risk, there are some basic types of wisis: Techological Confrontation Organizational Mindrels Malerolence

0 10	0 1 1
— W 19	Explain DR strategies in betail.
)	and addresser technology - related disisters. It systems in any company can go down unexpectedly due to hower outage, natural exerts or recursity using.
	are addresser technology and liter organization anticipales
	Company in yo down unexpectedly due to home out of
	events or security using.
	· herestion :- To reduce the litelihal 1 to 1
-0-	directer, business need a plan do evere that all key weeten are
-	herestion: To reduce the likelihood of a technology related director, business need a plan to ensure that all key systems are as reliable and secures as posselle.
	- Anticipation - Interpolion includes bediction built O.t.
	- Anticipation: - Anticipation includes predicting possible future desire, knowing the consequences, and planning appropriate disertes recovery procedures:
	Miligalia - Miligalian is how a huner responds after diseases scenario.  Vedating documentation  Londucting regular diseases recovery testing
	disula sieroria
	· londuiting regular director recovery teeling
(2)	
(220)	Eaplain IT security policy framework to the sever domains of typical IT infrastructure.
	Ricky: - New can destroy date in application and delete all
	NACY - WAS AND DESCRIPTION OF THE PROPERTY OF
-	Workstation Donain - A computer of an Interedual user where
	Workstation Donain - A computer of an Intervalual user where  the production takes place  Risks - A workstation hard drive as fail usuing data loss
1	

·JA	N Denis La Colonia
sout	N Domain: - lostein all of the worketalians, hubs, sintele
Ruk	An was unutherial
Merk	elation is a LAN.
	V / L/NW / N
entre	stad commen . The boundary between the to !!
Reil	V/WAW Domain - The boundary between the trusted and
gaio	attente your interest not infratrules and
- WA	uted gones.  3 - A hocker can penetrate your IT infratrulus and  N. D
ol	N Domain - Stands for Wide area Network and conjusted in Service provides as have a major retwork outrage
Ruit	- Service Incil.
41	promes as rave a major retwork outrop
· AH	diration Donain: This donain is not ut
Rike	uses severy just as small and database.
-	direction Donain: This domain is made up of upor server servers such as email and database.  A DOS attack con wipple the organization ema
· Re	note acces Doneis: The laws is I'l
_ (on	note access Domain: The domain in which a mobile we access the local network remotely usually through
e ib	PN.
- Nuc	- Renote commincation from office can be ursecued.
	· managed All All and the state of
11.	ability of the second of the s
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