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Theory 1

Q1. what are affects and threats to Is?

Threat is an object person or other entity that presents on ongoing danger to an asset compromises of Intellectual property. An attack is an information security threat that involve an attempt to obtain after, destroy, remove or reveal information access or permission.

Types of Viruses:

1. Deliberate Software Altack:

and deploy to attack a system.

These software components are designed to damage target system.

- 2. Virus A computer vivus consist of segments of code that perform malicious actions many times user unwittingly help virus get into the system opening infected mail or same other seemingly.
- 3. Worms worms are malkious program that.

 replicate itself constantly they can replicate until they fill available resources

4 Trojan Horse - They are software program that hide true nature and reveal their behaviour activated

Types of Attacks

- Malicious code- Includes execution of vibses worms, Trojan horse with intent to steal or destroy information. Software application like bots, Spyware, etc.
- 2. Spoofing- Technique used to gain unauthorized access to computers IP indicating message comp from trusted source.
- 3. Spam Spam is unsolicited commercial email making organization
- 4 Mail Bombing: Type of Dos attack in which attacker routs large quantities of mails.
- 5 Social Engineering Process of using social skills to convince people to reveal access credentials to attacker
- 6 Phishing Attempt to gain persond or Financial in sommation.
- 7. Phorming Redirection of web draffic to an private information

what is Risk Management ? How to Identify Risk? 92 =) Risk Management is the process or indentitying risk on represented by vulnerabilities to an organization, in Formation, assets and in Frastructure and taking steps to reduce an acceptable level

+ Identify Risk.

Plan and organize the Process

2. Asset Identification and Inventory
3. People procedures and data Identification

4 Hardware, Software or Network osset

5. Automated Asset Invontery tools

Risk Control Strategies.

1) Defend

Application of Policy

- Education and training

- Application of Technology

- 2) Transfer Attempts to shift risk to other assets
- 3) mitigate Attempts to reduce the impact caused by explication of vulnerability shrough phonings and preparation.

- 9. Accept Choice to do nothing to protect a vulnerability and to accept the outcome of its exploitation.
- 5. Terminate Instead of using a sateguard to protect an asset or deploying zero sateguards and accepting risks.
- 23 Explain purpose of Security policies? Also discuss on Enterprise IsP, Issue specific ISP system specific?
 - A security policy could be high level documents or set of documents that describe in detall the safety control to implement in order to protect the corporate.
 - Enterprise Information Security Policy
 Typically Addresses compliance in 2 areas:

 1. General compliance to ensure meeting the
 requirement to establish a program.
 - 2. The use of specified penalties

 * Issue specific security policies.

 * Independent Issp document specific issue

 Single comprehensive overing all issues

 modular Issp unit policy creation 4

 administration

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System specific securities policy:

It might describe the configuration and the operation of Network Fire wall

brief on Access control.

Elure environment for itself.

DAC is type or access control CDAC)
assign access right based on rules specified by user.

DAC model takes or based on advantage of using across control list and capability tables

- 2. Role base Access control:

 Also known as non-discretionary access control
 is used when system within the organization.

 RBAC assigns based on roles.
- 3. Mandatory Access control (HAC)

 considered as the stridest of all levels

 The system besign and Implementation mostly

 used by go voinment.

MAC defined Integrity pulls are system, High, medium, low, untrusted

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as what are security management models? write

Security management model is meant to be a generic description of what an organization.

should do to provide secure environment for their

1. Brila - LaPadula

- simple: no read up

- * (star): no write down

= Also called as multileval model for enforcing access control in government a military application

2 Biba - developed to address concerns of integrity

- In biba model user can only create content at or below their own integrity level.

3 Clark - wilson:

It was created in 1987. Addresses

all goals of Integrity. dictates short

seperation of duties must be en forced

subjects must access data through an

application.

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- 4. Graham Dennie model is a

 The Graham Dennie model is a

 computer see security model that

 shows now subsets mainly used its

 access control of distributed system.
 - Based on idea of Finite set of procedure
 being available to edit access right of
 on object.
- 6. Bewer-Nash:

 Also known as chinese was model. Used to

 design to provide controls that mitigate

 conflict of interest in commercial organizations