

# CompTIA

## Exam Questions SY0-701

CompTIA Security+ Exam



#### NEW QUESTION 1

- (Exam Topic 1)

Which of the following is a cryptographic concept that operates on a fixed length of bits?

- A. Block cipher
- B. Hashing
- C. Key stretching
- D. Salting

**Answer:** A

#### Explanation:

Single-key or symmetric-key encryption algorithms create a fixed length of bits known as a block cipher with a secret key that the creator/sender uses to encipher data (encryption) and the receiver uses to decipher it.

#### NEW QUESTION 2

- (Exam Topic 1)

An organization is moving away from the use of client-side and server-side certificates for EAP. The company would like for the new EAP solution to have the ability to detect rogue access points. Which of the following would accomplish these requirements?

- A. PEAP
- B. EAP-FAST
- C. EAP-TLS
- D. EAP-TTLS

**Answer:** B

#### Explanation:

EAP-FAST (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling) supports mutual authentication and is designed to simplify the deployment of strong, password-based authentication. EAP-FAST includes a mechanism for detecting rogue access points. References:

➤ CompTIA Security+ Study Guide Exam SY0-601, Chapter 4

#### NEW QUESTION 3

- (Exam Topic 1)

A company recently experienced an attack during which its main website was directed to the attacker's web server, allowing the attacker to harvest credentials from unsuspecting customers. Which of the following should the company implement to prevent this type of attack from occurring in the future?

- A. IPsec
- B. SSL/TLS
- C. DNSSEC
- D. S/MIME

**Answer:** B

#### Explanation:

To prevent attacks where the main website is directed to the attacker's web server and allowing the attacker to harvest credentials from unsuspecting customers, the company should implement SSL/TLS (Secure Sockets Layer/Transport Layer Security) to encrypt the communication between the web server and the clients. This will prevent attackers from intercepting and tampering with the communication, and will also help to verify the identity of the web server to the clients.

#### NEW QUESTION 4

- (Exam Topic 1)

A security engineer is installing a WAF to protect the company's website from malicious web requests over SSL. Which of the following is needed to meet the objective?

- A. A reverse proxy
- B. A decryption certificate
- C. A split-tunnel VPN
- D. Load-balanced servers

**Answer:** B

#### Explanation:

A Web Application Firewall (WAF) is a security solution that protects web applications from various types of attacks such as SQL injection, cross-site scripting (XSS), and others. It is typically deployed in front of web servers to inspect incoming traffic and filter out malicious requests.

To protect the company's website from malicious web requests over SSL, a decryption certificate is needed to decrypt the SSL traffic before it reaches the WAF. This allows the WAF to inspect the traffic and filter out malicious requests.

#### NEW QUESTION 5

- (Exam Topic 1)

As part of annual audit requirements, the security team performed a review of exceptions to the company policy that allows specific users the ability to use USB storage devices on their laptops. The review yielded the following results.

- The exception process and policy have been correctly followed by the majority of users
- A small number of users did not create tickets for the requests but were granted access
- All access had been approved by supervisors.
- Valid requests for the access sporadically occurred across multiple departments.
- Access, in most cases, had not been removed when it was no longer needed

Which of the following should the company do to ensure that appropriate access is not disrupted but unneeded access is removed in a reasonable time frame?

- A. Create an automated, monthly attestation process that removes access if an employee's supervisor denies the approval
- B. Remove access for all employees and only allow new access to be granted if the employee's supervisor approves the request
- C. Perform a quarterly audit of all user accounts that have been granted access and verify the exceptions with the management team
- D. Implement a ticketing system that tracks each request and generates reports listing which employees actively use USB storage devices

**Answer:** A

**Explanation:**

According to the CompTIA Security+ SY0-601 documents, the correct answer option is A. Create an automated, monthly attestation process that removes access if an employee's supervisor denies the approval<sup>12</sup>.

This option ensures that appropriate access is not disrupted but unneeded access is removed in a reasonable time frame by requiring supervisors to approve or deny the exceptions on a regular basis. It also reduces the manual workload of the security team and improves the compliance with the company policy.

**NEW QUESTION 6**

- (Exam Topic 1)

A retail company that is launching @ new website to showcase the company's product line and other information for online shoppers registered the following URLs:

- \* www.companysite.com
- \* shop.companysite.com
- \* about-us.companysite.com contact-us.companysite.com secure-logon.companysite.com

Which of the following should the company use to secure its website if the company is concerned with convenience and cost?

- A. A self-signed certificate
- B. A root certificate
- C. A code-signing certificate
- D. A wildcard certificate
- E. An extended validation certificate

**Answer:** D

**Explanation:**

The company can use a wildcard certificate to secure its website if it is concerned with convenience and cost. A wildcard certificate can secure multiple subdomains, which makes it cost-effective and convenient for securing the various registered domains.

The retail company should use a wildcard certificate if it is concerned with convenience and cost. A wildcard SSL certificate is a single SSL/TLS certificate that can provide significant time and cost savings, particularly for small businesses. The certificate includes a wildcard character (\*) in the domain name field, and can secure multiple subdomains of the primary domain<sup>1</sup>.

**NEW QUESTION 7**

- (Exam Topic 1)

Which of the following environments would MOST likely be used to assess the execution of component parts of a system at both the hardware and software levels and to measure performance characteristics?

- A. Test
- B. Staging
- C. Development
- D. Production

**Answer:** A

**Explanation:**

The test environment is used to assess the execution of component parts of a system at both the hardware and software levels and to measure performance characteristics. References: CompTIA Security+ Study Guide 601, Chapter 2

**NEW QUESTION 8**

- (Exam Topic 1)

A network engineer and a security engineer are discussing ways to monitor network operations. Which of the following is the BEST method?

- A. Disable Telnet and force SSH.
- B. Establish a continuous ping.
- C. Utilize an agentless monitor
- D. Enable SNMPv3 With passwords.

**Answer:** C

**Explanation:**

An agentless monitor is the best method to monitor network operations because it does not require any software or agents to be installed on the devices being monitored, making it less intrusive and less likely to disrupt network operations. This method can monitor various aspects of network operations, such as traffic, performance, and security.

CompTIA Security+ Study Guide, Sixth Edition (SY0-601), Chapter 4: Attacks, Threats, and Vulnerabilities, Monitoring and Detection Techniques, pg. 167-170.

**NEW QUESTION 9**

- (Exam Topic 1)

Developers are writing code and merging it into shared repositories several times a day, where it is tested automatically. Which of the following concepts does this BEST represent?

- A. Functional testing
- B. Stored procedures

- C. Elasticity
- D. Continuous integration

**Answer:** D

**Explanation:**

Continuous integration is a software development practice where developers merge their code into a shared repository several times a day, and the code is tested automatically. This ensures that code changes are tested and integrated continuously, reducing the risk of errors and conflicts.

**NEW QUESTION 10**

- (Exam Topic 1)

A company recently decided to allow its employees to use their personally owned devices for tasks like checking email and messaging via mobile applications. The company would like to use MDM, but employees are concerned about the loss of personal data. Which of the following should the IT department implement to BEST protect the company against company data loss while still addressing the employees' concerns?

- A. Enable the remote-wiping option in the MDM software in case the phone is stolen.
- B. Configure the MDM software to enforce the use of PINs to access the phone.
- C. Configure MDM for FDE without enabling the lock screen.
- D. Perform a factory reset on the phone before installing the company's applications.

**Answer:** C

**Explanation:**

MDM software is a type of remote asset-management software that runs from a central server. It is used by businesses to optimize the functionality and security of their mobile devices, including smartphones and tablets. It can monitor and regulate both corporate-owned and personally owned devices to the organization's policies.

FDE stands for full disk encryption, which is a method of encrypting all data on a device's storage. FDE can protect data from unauthorized access in case the device is lost or stolen.

If a company decides to allow its employees to use their personally owned devices for work tasks, it should configure MDM software to enforce FDE on those devices. This way, the company can protect its data from being exposed if the device falls into the wrong hands.

However, employees may be concerned about the loss of personal data if the company also enables the remote-wiping option in the MDM software. Remote wiping is a feature that allows the company to erase all data on a device remotely in case of theft or loss. Remote wiping can also affect personal data on the device, which may not be acceptable to employees.

Therefore, a possible compromise is to configure MDM for FDE without enabling the lock screen. This means that the device will be encrypted, but it will not require a password or PIN to unlock it. This way, employees can access their personal data easily, while the company can still protect its data with encryption. The other options are not correct because:

- A. Enable the remote-wiping option in the MDM software in case the phone is stolen. This option may address the company's concern about data loss, but it may not address the employees' concern about personal data loss. Remote wiping can erase both work and personal data on the device, which may not be desirable for employees.
- B. Configure the MDM software to enforce the use of PINs to access the phone. This option may enhance the security of the device, but it may not address the company's concern about data loss. PINs can be guessed or bypassed by attackers, and they do not protect data if the device is physically accessed.
- D. Perform a factory reset on the phone before installing the company's applications. This option may address the company's concern about data loss, but it may not address the employees' concern about personal data loss. A factory reset will erase all data on the device, including personal data, which may not be acceptable to employees.

According to CompTIA Security+ SY0-601 Exam Objectives 2.4 Given a scenario, implement secure systems design:

"MDM software is a type of remote asset-management software that runs from a central server<sup>1</sup>. It is used by businesses to optimize the functionality and security of their mobile devices, including smartphones and tablets<sup>2</sup>."

"FDE stands for full disk encryption, which is a method of encrypting all data on a device's storage<sup>3</sup>." References:

<https://www.comptia.org/certifications/security#examdetails>

<https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>

<https://www.makeuseof.com/what-is-mobile-device-management-mdm-software/>

**NEW QUESTION 10**

- (Exam Topic 1)

A company reduced the area utilized in its datacenter by creating virtual networking through automation and by creating provisioning routes and rules through scripting. Which of the following does this example describe?

- A. IaC
- B. MSSP
- C. Containers
- D. SaaS

**Answer:** A

**Explanation:**

IaaS (Infrastructure as a Service) allows the creation of virtual networks, automation, and scripting to reduce the area utilized in a datacenter. References: CompTIA Security+ Study Guide, Exam SY0-601, Chapter 4

**NEW QUESTION 12**

- (Exam Topic 1)

A security assessment found that several embedded systems are running unsecure protocols. These Systems were purchased two years ago and the company that developed them is no longer in business Which of the following constraints BEST describes the reason the findings cannot be remediated?

- A. inability to authenticate
- B. Implied trust
- C. Lack of computing power
- D. Unavailable patch

**Answer:** D

**Explanation:**

If the systems are running unsecure protocols and the company that developed them is no longer in business, it is likely that there are no patches available to remediate the issue. References:

➤ CompTIA Security+ Study Guide, Sixth Edition, pages 35-36

**NEW QUESTION 14**

- (Exam Topic 1)

A help desk technician receives an email from the Chief Information Officer (C/O) asking for documents. The technician knows the CIO is on vacation for a few weeks. Which of the following should the technician do to validate the authenticity of the email?

- A. Check the metadata in the email header of the received path in reverse order to follow the email's path.
- B. Hover the mouse over the CIO's email address to verify the email address.
- C. Look at the metadata in the email header and verify the "From." line matches the CIO's email address.
- D. Forward the email to the CIO and ask if the CIO sent the email requesting the documents.

**Answer: B**

**Explanation:**

The "From" line in the email header can be easily spoofed or manipulated by an attacker to make it look like the email is coming from the CIO's email address. However, this does not mean that the email address is actually valid or that the email is actually sent by the CIO. A better way to check the email address is to hover over it and see if it matches the CIO's email address exactly. This can help to spot any discrepancies or typos that might indicate a phishing attempt. For example, if the CIO's email address is cio@company.com, but when you hover over it, it shows cio@compnay.com, then you know that the email is not authentic and likely a phishing attempt.

**NEW QUESTION 17**

- (Exam Topic 1)

A cybersecurity administrator needs to implement a Layer 7 security control on a network and block potential attacks. Which of the following can block an attack at Layer 7? (Select TWO).

- A. HIDS
- B. NIPS
- C. HSM
- D. WAF
- E. NAC
- F. NIDS
- G. Stateless firewall

**Answer: DF**

**Explanation:**

A WAF (Web Application Firewall) and NIDS (Network Intrusion Detection System) are both examples of Layer 7 security controls. A WAF can block attacks at the application layer (Layer 7) of the OSI model by filtering traffic to and from a web server. NIDS can also detect attacks at Layer 7 by monitoring network traffic for suspicious patterns and behaviors. References: CompTIA Security+ Study Guide, pages 94-95, 116-118

**NEW QUESTION 18**

- (Exam Topic 1)

A security analyst was deploying a new website and found a connection attempting to authenticate on the site's portal. While Investigating The incident, the analyst identified the following Input in the username field:

```
admin' or 1=1--
```

Which of the following BEST explains this type of attack?

- A. DLL injection to hijack administrator services
- B. SQLi on the field to bypass authentication
- C. Execution of a stored XSS on the website
- D. Code to execute a race condition on the server

**Answer: B**

**Explanation:**

The input "admin' or 1=1--" in the username field is an example of SQL injection (SQLi) attack. In this case, the attacker is attempting to bypass authentication by injecting SQL code into the username field that will cause the authentication check to always return true. References: CompTIA Security+ SY0-601 Exam Objectives: 3.1 Given a scenario, use appropriate software tools to assess the security posture of an organization.

**NEW QUESTION 23**

- (Exam Topic 1)

Which of the following BEST describes a technique that compensates researchers for finding vulnerabilities?

- A. Penetration testing
- B. Code review
- C. Wardriving
- D. Bug bounty

**Answer: D**

**Explanation:**

A bug bounty is a technique that compensates researchers for finding vulnerabilities in software or systems. A bug bounty program is an initiative that offers rewards, usually monetary, to ethical hackers who report security flaws to the owners or developers of the software or system. Bug bounty programs are often



used by companies such as Meta (formerly Facebook), Google, Microsoft, and others to improve the security of their products and services. Bug bounty programs compensate researchers, often financially, for finding vulnerabilities in software, websites, or other technology. These programs provide an additional layer of security testing and incentivize researchers to report vulnerabilities instead of exploiting them.

**NEW QUESTION 24**

- (Exam Topic 1)

An analyst is working on an email security incident in which the target opened an attachment containing a worm. The analyst wants to implement mitigation techniques to prevent further spread. Which of the following is the BEST course of action for the analyst to take?

- A. Apply a DLP solution.
- B. Implement network segmentation
- C. Utilize email content filtering,
- D. isolate the infected attachment.

**Answer: B**

**Explanation:**

Network segmentation is the BEST course of action for the analyst to take to prevent further spread of the worm. Network segmentation helps to divide a network into smaller segments, isolating the infected attachment from the rest of the network. This helps to prevent the worm from spreading to other devices within the network. Implementing email content filtering or DLP solution might help in preventing the email from reaching the target or identifying the worm, respectively, but will not stop the spread of the worm. References: CompTIA Security+ Study Guide, Chapter 5: Securing Network Infrastructure, 5.2 Implement Network Segmentation, pp. 286-289

**NEW QUESTION 29**

- (Exam Topic 1)

A new plug-and-play storage device was installed on a PC in the corporate environment. Which of the following safeguards will BEST help to protect the PC from malicious files on the storage device?

- A. Change the default settings on the PC.
- B. Define the PC firewall rules to limit access.
- C. Encrypt the disk on the storage device.
- D. Plug the storage device in to the UPS

**Answer: A**

**Explanation:**

The best option that will help to protect the PC from malicious files on the storage device would be A. Change the default settings on the PC. Changing the default settings on the PC can include disabling the autorun or autoplay feature, which can prevent malicious files from executing automatically when the storage device is plugged in. Changing the default settings can also include enabling antivirus software, updating the operating system and applications, and configuring user account control and permissions.

**NEW QUESTION 30**

- (Exam Topic 1)

An organization discovered a disgruntled employee exfiltrated a large amount of PII data by uploading files. Which of the following controls should the organization consider to mitigate this risk?

- A. EDR
- B. Firewall
- C. HIPS
- D. DLP

**Answer: D**

**Explanation:**

DLP stands for data loss prevention, which is a set of tools and processes that aim to prevent unauthorized access, use, or transfer of sensitive data. DLP can help mitigate the risk of data exfiltration by disgruntled employees or external attackers by monitoring and controlling data flows across endpoints, networks, and cloud services. DLP can also detect and block attempts to copy, print, email, upload, or download sensitive data based on predefined policies and rules. References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives> <https://www.forcepoint.com/cyber-edu/data-loss-prevention-dlp>

**NEW QUESTION 34**

- (Exam Topic 1)

A company acquired several other small companies. The company that acquired the others is transitioning network services to the cloud. The company wants to make sure that performance and security remain intact. Which of the following BEST meets both requirements?

- A. High availability
- B. Application security
- C. Segmentation
- D. Integration and auditing

**Answer: A**

**Explanation:**

High availability refers to the ability of a system or service to remain operational and available to users with minimal downtime. By ensuring high availability, the company can maintain good performance and ensure that users have access to the network services they need. High availability can also improve security, as it helps to prevent disruptions that could potentially be caused by security incidents or other issues.

**NEW QUESTION 39**

- (Exam Topic 1)

A bad actor tries to persuade someone to provide financial information over the phone in order to gain access to funds. Which of the following types of attacks does this scenario describe?

- A. Vishing
- B. Phishing
- C. Spear phishing
- D. Whaling

**Answer:** A

**Explanation:**

Vishing is a social engineering attack that uses phone calls or voicemail messages to trick people into divulging sensitive information, such as financial information or login credentials.

**NEW QUESTION 42**

- (Exam Topic 1)

A company installed several crosscut shredders as part of increased information security practices targeting data leakage risks. Which of the following will this practice reduce?

- A. Dumpster diving
- B. Shoulder surfing
- C. Information elicitation
- D. Credential harvesting

**Answer:** A

**Explanation:**

Crosscut shredders are used to destroy paper documents and reduce the risk of data leakage through dumpster diving. Dumpster diving is a method of retrieving sensitive information from paper waste by searching through discarded documents.

References:

➤ CompTIA Security+ Study Guide, Exam SY0-601, 4th Edition, Chapter 2

**NEW QUESTION 45**

- (Exam Topic 1)

An enterprise needs to keep cryptographic keys in a safe manner. Which of the following network appliances can achieve this goal?

- A. HSM
- B. CASB
- C. TPM
- D. DLP

**Answer:** A

**Explanation:**

Hardware Security Module (HSM) is a network appliance designed to securely store cryptographic keys and perform cryptographic operations. HSMs provide a secure environment for key management and can be used to keep cryptographic keys safe from theft, loss, or unauthorized access. Therefore, an enterprise can achieve the goal of keeping cryptographic keys in a safe manner by using an HSM appliance. References: CompTIA Security+ Certification Exam Objectives, Exam Domain 2.0: Technologies and Tools, 2.4 Given a scenario, use appropriate tools and techniques to troubleshoot security issues, p. 21

**NEW QUESTION 49**

- (Exam Topic 1)

The Chief Information Security Officer wants to pilot a new adaptive, user-based authentication method. The concept includes granting logical access based on physical location and proximity. Which of the following is the BEST solution for the pilot?

- A. Geofencing
- B. Self-sovereign identification
- C. PKI certificates
- D. SSO

**Answer:** A

**Explanation:**

Geofencing is a location-based technology that allows an organization to define and enforce logical access control policies based on physical location and proximity. Geofencing can be used to grant or restrict access to systems, data, or facilities based on an individual's location, and it can be integrated into a user's device or the infrastructure. This makes it a suitable solution for the pilot project to test the adaptive, user-based authentication method that includes granting logical access based on physical location and proximity.

Reference: CompTIA Security+ SY0-601 Official Text Book, Chapter 4: "Identity and Access Management".

**NEW QUESTION 50**

- (Exam Topic 1)

An organization's Chief Information Security Officer is creating a position that will be responsible for implementing technical controls to protect data, including ensuring backups are properly maintained. Which of the following roles would MOST likely include these responsibilities?

- A. Data protection officer
- B. Data owner
- C. Backup administrator
- D. Data custodian

E. Internal auditor

**Answer:** D

**Explanation:**

The responsibilities of ensuring backups are properly maintained and implementing technical controls to protect data are the responsibilities of the data custodian role. References: CompTIA Security+ Study Guide by Emmett Dulaney, Chapter 7: Securing Hosts and Data, Data Custodian

**NEW QUESTION 55**

- (Exam Topic 1)

An information security manager for an organization is completing a PCI DSS self-assessment for the first time. which of the is following MOST likely reason for this type of assessment?

- A. An international expansion project is currently underway.
- B. Outside consultants utilize this tool to measure security maturity.
- C. The organization is expecting to process credit card information.
- D. A government regulator has requested this audit to be completed

**Answer:** C

**Explanation:**

PCI DSS (Payment Card Industry Data Security Standard) is a set of security standards designed to ensure that all companies that accept, process, store, or transmit credit card information maintain a secure environment. Any organization that accepts credit card payments is required to comply with PCI DSS.

**NEW QUESTION 57**

- (Exam Topic 1)

A security analyst is running a vulnerability scan to check for missing patches during a suspected security rodent During which of the following phases of the response process is this activity MOST likely occurring?

- A. Containment
- B. Identification
- C. Recovery
- D. Preparation

**Answer:** B

**Explanation:**

Vulnerability scanning is a proactive security measure used to identify vulnerabilities in the network and systems. References: CompTIA Security+ Study Guide 601, Chapter 4

**NEW QUESTION 62**

- (Exam Topic 1)

During a forensic investigation, a security analyst discovered that the following command was run on a compromised host:

```
crackmapexec smb 192.168.10.232 -u localadmin -H 0A3CE8D07A46E5C51070F03593E0A5E6
```

Which of the following attacks occurred?

- A. Buffer overflow
- B. Pass the hash
- C. SQL injection
- D. Replay attack

**Answer:** B

**Explanation:**

Pass the hash is an attack technique that allows an attacker to authenticate to a remote server or service by using the hashed version of a user's password, rather than requiring the plaintext password

**NEW QUESTION 65**

- (Exam Topic 1)

A security engineer needs to build @ solution to satisfy regulatory requirements that stale certain critical servers must be accessed using MFA However, the critical servers are older and are unable to support the addition of MFA, Which of te following will the engineer MOST likely use to achieve this objective?

- A. A forward proxy
- B. A stateful firewall
- C. A jump server
- D. A port tap

**Answer:** C

**Explanation:**

A jump server is a secure host that allows users to access other servers within a network. The jump server acts as an intermediary, and users can access other servers via the jump server after authenticating with MFA.

**NEW QUESTION 67**

- (Exam Topic 1)

A security engineer is installing a WAF to protect the company's website from malicious web requests over SSL. Which of the following is needed to meet the objective?



- A. A reverse proxy
- B. A decryption certificate
- C. A split-tunnel VPN
- D. Load-balanced servers

**Answer:** B

**Explanation:**

A Web Application Firewall (WAF) is a security solution that protects web applications from various types of attacks such as SQL injection, cross-site scripting (XSS), and others. It is typically deployed in front of web servers to inspect incoming traffic and filter out malicious requests.

To protect the company's website from malicious web requests over SSL, a decryption certificate is needed to decrypt the SSL traffic before it reaches the WAF. This allows the WAF to inspect the traffic and filter out malicious requests.

**NEW QUESTION 68**

- (Exam Topic 1)

Which of the following BEST describes the team that acts as a referee during a penetration-testing exercise?

- A. White team
- B. Purple team
- C. Green team
- D. Blue team
- E. Red team

**Answer:** A

**Explanation:**

During a penetration testing exercise, the white team is responsible for acting as a referee and providing oversight and support to ensure that the testing is conducted safely and effectively. They may also be responsible for determining the rules and guidelines of the exercise, monitoring the progress of the teams, and providing feedback and insights on the strengths and weaknesses of the organization's security measures.

**NEW QUESTION 73**

- (Exam Topic 1)

A security researcher is using an adversary's infrastructure and TTPs and creating a named group to track those targeted Which of the following is the researcher MOST likely using?

- A. The Cyber Kill Chain
- B. The incident response process
- C. The Diamond Model of Intrusion Analysis
- D. MITRE ATT&CK

**Answer:** D

**Explanation:**

The researcher is most likely using the MITRE ATT&CK framework. MITRE ATT&CK is a globally accessible knowledge base of adversary tactics, techniques, and procedures (TTPs) based on real-world observations. It helps security teams better understand and track adversaries by creating a named group, which aligns with the scenario described in the question. The framework is widely recognized and referenced in the cybersecurity industry, including in CompTIA Security+ study materials. References: 1. CompTIA Security+ Certification Exam Objectives (SY0-601):

<https://www.comptia.jp/pdf/Security%2B%20SY0-601%20Exam%20Objectives.pdf> 2. MITRE ATT&CK: <https://attack.mitre.org/>

MITRE ATT&CK is a knowledge base of adversary tactics, techniques, and procedures (TTPs) that are observed in real-world cyberattacks. MITRE ATT&CK provides a common framework and language for describing and analyzing cyber threats and their behaviors. MITRE ATT&CK also allows security researchers to create named groups that track specific adversaries based on their TTPs.

The other options are not correct because:

- A. The Cyber Kill Chain is a model that describes the stages of a cyberattack from reconnaissance to exfiltration. The Cyber Kill Chain does not provide a way to create named groups based on adversary TTPs.
- B. The incident response process is a set of procedures and guidelines that defines how an organization should respond to a security incident. The incident response process does not provide a way to create named groups based on adversary TTPs.
- C. The Diamond Model of Intrusion Analysis is a framework that describes the four core features of any intrusion: adversary, capability, infrastructure, and victim. The Diamond Model of Intrusion Analysis does not provide a way to create named groups based on adversary TTPs.

According to CompTIA Security+ SY0-601 Exam Objectives 1.1 Compare and contrast different types of social engineering techniques:

"MITRE ATT&CK is a knowledge base of adversary tactics, techniques, and procedures (TTPs) that are observed in real-world cyberattacks. MITRE ATT&CK provides a common framework and language for describing and analyzing cyber threats and their behaviors."

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>  
<https://attack.mitre.org/>

**NEW QUESTION 76**

- (Exam Topic 1)

When planning to build a virtual environment, an administrator need to achieve the following,

- Establish polices in Limit who can create new VMs
- Allocate resources according to actual utilization'
- Require justification for requests outside of the standard requirements.
- Create standardized categories based on size and resource requirements Which of the following is the administrator MOST likely trying to do?

- A. Implement IaaS replication
- B. Product against VM escape
- C. Deploy a PaaS
- D. Avoid VM sprawl

**Answer:** D

**Explanation:**

The administrator is most likely trying to avoid VM sprawl, which occurs when too many VMs are created and managed poorly, leading to resource waste and increased security risks. The listed actions can help establish policies, resource allocation, and categorization to prevent unnecessary VM creation and ensure proper management. Reference: CompTIA Security+ Certification Exam Objectives, Exam SY0-601, 3.6 Given a scenario, implement the appropriate virtualization components.

**NEW QUESTION 81**

- (Exam Topic 1)

An organization wants to enable built-in FDE on all laptops Which of the following should the organization ensure is Installed on all laptops?

- A. TPM
- B. CA
- C. SAML
- D. CRL

**Answer:** A

**Explanation:**

The organization should ensure that a Trusted Platform Module (TPM) is installed on all laptops in order to enable built-in Full Disk Encryption (FDE). TPM is a hardware-based security chip that stores encryption keys and helps to protect data from malicious attacks. It is important to ensure that the TPM is properly configured and enabled in order to get the most out of FDE.

**NEW QUESTION 85**

- (Exam Topic 1)

A company recently experienced a major breach. An investigation concludes that customer credit card data was stolen and exfiltrated through a dedicated business partner connection to a vendor, who is not held to the same security contral standards. Which of the following is the MOST likely source of the breach?

- A. Side channel
- B. Supply chain
- C. Cryptographic downgrade
- D. Malware

**Answer:** B

**Explanation:**

A supply chain attack occurs when a third-party supplier or business partner is compromised, leading to an attacker gaining unauthorized access to the targeted organization's network. In this scenario, the dedicated business partner connection to a vendor was used to exfiltrate customer credit card data, indicating that the vendor's network was breached and used as a supply chain attack vector.

**NEW QUESTION 86**

- (Exam Topic 1)

A desktop support technician recently installed a new document-scanning software program on a computer. However, when the end user tried to launch the program, it did not respond. Which of the following is MOST likely the cause?

- A. A new firewall rule is needed to access the application.
- B. The system was quarantined for missing software updates.
- C. The software was not added to the application whitelist.
- D. The system was isolated from the network due to infected software

**Answer:** C

**Explanation:**

The most likely cause of the document-scanning software program not responding when launched by the end user is that the software was not added to the application whitelist. An application whitelist is a list of approved software applications that are allowed to run on a system. If the software is not on the whitelist, it may be blocked from running by the system's security policies. Adding the software to the whitelist should resolve the issue and allow the program to run.

References: <https://www.techopedia.com/definition/31541/application-whitelisting>

**NEW QUESTION 88**

- (Exam Topic 1)

A security analyst is investigating multiple hosts that are communicating to external IP addresses during the hours of 2:00 a.m - 4:00 am. The malware has evaded detection by traditional antivirus software. Which of the following types of malware is MOST likely infecting the hosts?

- A. A RAT
- B. Ransomware
- C. Polymorphic
- D. A worm

**Answer:** A

**Explanation:**

Based on the given information, the most likely type of malware infecting the hosts is a RAT (Remote Access Trojan). RATs are often used for stealthy unauthorized access to a victim's computer, and they can evade traditional antivirus software through various sophisticated techniques. In particular, the fact that the malware is communicating with external IP addresses during specific hours suggests that it may be under the control of an attacker who is issuing commands from a remote location. Ransomware, polymorphic malware, and worms are also possible culprits, but the context of the question suggests that a RAT is the most likely answer.

**NEW QUESTION 91**

- (Exam Topic 1)

A security researcher is tracking an adversary by noting its attacks and techniques based on its capabilities, infrastructure, and victims. Which of the following is the researcher MOST likely using?

- A. The Diamond Model of Intrusion Analysis
- B. The Cyber Kill Chain
- C. The MITRE CVE database
- D. The incident response process

**Answer:** A

**Explanation:**

The Diamond Model is a framework for analyzing cyber threats that focuses on four key elements: adversary, capability, infrastructure, and victim. By analyzing these elements, security researchers can gain a better understanding of the threat landscape and develop more effective security strategies.

**NEW QUESTION 92**

- (Exam Topic 1)

An employee, receives an email stating he won the lottery. The email includes a link that requests a name, mobile phone number, address, and date of birth be provided to confirm employee's identity before sending him the prize. Which of the following BEST describes this type of email?

- A. Spear phishing
- B. Whaling
- C. Phishing
- D. Vishing

**Answer:** C

**Explanation:**

Phishing is a type of social engineering attack that uses fraudulent emails or other forms of communication to trick users into revealing sensitive information, such as passwords, credit card numbers, or personal details. Phishing emails often impersonate legitimate entities, such as banks, online services, or lottery organizations, and entice users to click on malicious links or attachments that lead to fake websites or malware downloads. Phishing emails usually target a large number of users indiscriminately, hoping that some of them will fall for the scam.

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>  
<https://www.kaspersky.com/resource-center/definitions/what-is-phishing>

**NEW QUESTION 94**

- (Exam Topic 1)

Certain users are reporting their accounts are being used to send unauthorized emails and conduct suspicious activities. After further investigation, a security analyst notices the following:

- All users share workstations throughout the day.
- Endpoint protection was disabled on several workstations throughout the network.
- Travel times on logins from the affected users are impossible.
- Sensitive data is being uploaded to external sites.
- All user account passwords were forced to be reset and the issue continued. Which of the following attacks is being used to compromise the user accounts?

- A. Brute-force
- B. Keylogger
- C. Dictionary
- D. Rainbow

**Answer:** B

**Explanation:**

The symptoms suggest a keylogger is being used to compromise the user accounts, allowing the attackers to obtain the users' passwords and other sensitive information. References:

➤ [CompTIA Security+ Study Guide Exam SY0-601, Chapter 6](#)

**NEW QUESTION 97**

- (Exam Topic 1)

A company was compromised, and a security analyst discovered the attacker was able to get access to a service account. The following logs were discovered during the investigation:

```
User account 'JHDoe' does not exist...
User account 'VMAdmin' does not exist...
User account 'tomcat' wrong password...
User account 'Admin' does not exist...
```

Which of the following MOST likely would have prevented the attacker from learning the service account name?

- A. Race condition testing
- B. Proper error handling
- C. Forward web server logs to a SIEM
- D. Input sanitization

**Answer:** D

**Explanation:**

Input sanitization can help prevent attackers from learning the service account name by removing potentially harmful characters from user input, reducing the

likelihood of successful injection attacks. References:

- > CompTIA Security+ Certification Exam Objectives 2.2: Given a scenario, implement secure coding techniques.
- > CompTIA Security+ Study Guide, Sixth Edition, pages 72-73

#### NEW QUESTION 102

- (Exam Topic 1)

Which of the following cryptographic concepts would a security engineer utilize while implementing non-repudiation? (Select TWO)

- A. Block cipher
- B. Hashing
- C. Private key
- D. Perfect forward secrecy
- E. Salting
- F. Symmetric keys

**Answer:** BC

#### Explanation:

Non-repudiation is the ability to ensure that a party cannot deny a previous action or event. Cryptographic concepts that can be used to implement non-repudiation include hashing and digital signatures, which use a private key to sign a message and ensure that the signature is unique to the signer. References: CompTIA Security+ Certification Exam Objectives (SY0-601)

#### NEW QUESTION 106

- (Exam Topic 1)

A company is implementing a new SIEM to log and send alerts whenever malicious activity is blocked by its antivirus and web content filters. Which of the following is the primary use case for this scenario?

- A. Implementation of preventive controls
- B. Implementation of detective controls
- C. Implementation of deterrent controls
- D. Implementation of corrective controls

**Answer:** B

#### Explanation:

A Security Information and Event Management (SIEM) system is a tool that collects and analyzes security-related data from various sources to detect and respond to security incidents. References: CompTIA Security+ Study Guide 601, Chapter 5

#### NEW QUESTION 109

- (Exam Topic 1)

A company would like to provide flexibility for employees on device preference. However, the company is concerned about supporting too many different types of hardware. Which of the following deployment models will provide the needed flexibility with the GREATEST amount of control and security over company data and infrastructure?

- A. BYOD
- B. VDI
- C. COPE
- D. CYOD

**Answer:** D

#### Explanation:

Choose Your Own Device (CYOD) is a deployment model that allows employees to select from a predefined list of devices. It provides employees with flexibility in device preference while allowing the company to maintain control and security over company data and infrastructure. CYOD deployment model provides a compromise between the strict control provided by Corporate-Owned, Personally Enabled (COPE) deployment model and the flexibility provided by Bring Your Own Device (BYOD) deployment model. References: CompTIA Security+ Study Guide, Chapter 6: Securing Application, Data, and Host Security, 6.5 Implement Mobile Device Management, pp. 334-335

#### NEW QUESTION 111

- (Exam Topic 1)

Which of the following identifies the point in time when an organization will recover data in the event of an outage?

- A. SLA
- B. RPO
- C. MTBF
- D. ARO

**Answer:** B

#### Explanation:

Detailed  
Recovery Point Objective (RPO) is the maximum duration of time that an organization can tolerate data loss in the event of an outage. It identifies the point in time when data recovery must begin, and any data loss beyond that point is considered unacceptable.  
Reference: CompTIA Security+ Certification Guide, Exam SY0-601 by Mike Chapple and David Seidl, Chapter-7: Incident Response and Recovery, Objective 7.2: Compare and contrast business continuity and disaster recovery concepts, pp. 349-350.

#### NEW QUESTION 116



- (Exam Topic 1)

A user reports trouble using a corporate laptop. The laptop freezes and responds slowly when writing documents and the mouse pointer occasional disappears. The task list shows the following results

Name	CPU %	Memory	Network %
Calculator	0%	4.1 MB	0 Mbps
Chrome	0.2%	207.1 MB	0.1 Mbps
Explorer	99.7%	2.15 GB	0.1 Mbps
Notepad	0%	3.9 MB	0 Mbps

Which of the following is MOST likely the issue?

- A. RAT
- B. PUP
- C. Spyware
- D. Keylogger

**Answer:** C

**Explanation:**

Spyware is malicious software that can cause a computer to slow down or freeze. It can also cause the mouse pointer to disappear. The task list shows an application named "spyware.exe" running, indicating that spyware is likely the issue. References:

- CompTIA Security+ Certification Exam Objectives 6.0: Given a scenario, analyze indicators of compromise and determine the type of malware.
- CompTIA Security+ Study Guide, Sixth Edition, pages 125-126

**NEW QUESTION 119**

- (Exam Topic 1)

Which of the following controls would be the MOST cost-effective and time-efficient to deter intrusions at the perimeter of a restricted, remote military training area? (Select TWO).

- A. Barricades
- B. Thermal sensors
- C. Drones
- D. Signage
- E. Motion sensors
- F. Guards
- G. Bollards

**Answer:** AD

**Explanation:**

Barricades and signage are the most cost-effective and time-efficient controls to deter intrusions at the perimeter of a restricted, remote military training area. References:

- CompTIA Security+ Study Guide Exam SY0-601, Chapter 7

**NEW QUESTION 120**

- (Exam Topic 1)

A security architect is implementing a new email architecture for a company. Due to security concerns, the Chief Information Security Officer would like the new architecture to support email encryption, as well as provide for digital signatures. Which of the following should the architect implement?

- A. TOP
- B. IMAP
- C. HTTPS
- D. S/MIME

**Answer:** D

**Explanation:**

S/MIME (Secure/Multipurpose Internet Mail Extensions) is a protocol that enables secure email messages to be sent and received. It provides email encryption, as well as digital signatures, which can be used to verify the authenticity of the sender. S/MIME can be used with a variety of email protocols, including POP and IMAP.

References:

- <https://www.comptia.org/content/guides/what-is-smime>
- CompTIA Security+ Study Guide, Sixth Edition (SY0-601), page 139

**NEW QUESTION 122**

- (Exam Topic 1)

An organization is concerned about hackers potentially entering a facility and plugging in a remotely accessible Kali Linux box. Which of the following should be the first lines of defense against such an attack? (Select TWO)

- A. MAC filtering
- B. Zero trust segmentation
- C. Network access control
- D. Access control vestibules
- E. Guards
- F. Bollards

**Answer:** CE

**Explanation:**



Network access control (NAC) is a technique that restricts access to a network based on the identity, role, device, location, or other criteria of the users or devices. NAC can prevent unauthorized or malicious devices from connecting to a network and accessing sensitive data or resources. Guards are physical security personnel who monitor and control access to a facility. Guards can prevent unauthorized or malicious individuals from entering a facility and plugging in a remotely accessible device.

**NEW QUESTION 123**

- (Exam Topic 1)

Which of the following are the MOST likely vectors for the unauthorized inclusion of vulnerable code in a software company's final software releases? (Select TWO.)

- A. Unsecure protocols
- B. Use of penetration-testing utilities
- C. Weak passwords
- D. Included third-party libraries
- E. Vendors/supply chain
- F. Outdated anti-malware software

**Answer:** DE

**Explanation:**

The most likely vectors for the unauthorized inclusion of vulnerable code in a software company's final software releases are included third-party libraries and vendors/supply chain. References: CompTIA Security+ Study Guide by Emmett Dulaney, Chapter 8: Application, Data, and Host Security, Supply Chain and Software Development Life Cycle

**NEW QUESTION 124**

- (Exam Topic 1)

Which of the following is required in order for an IDS and a WAF to be effective on HTTPS traffic?

- A. Hashing
- B. DNS sinkhole
- C. TLS inspection
- D. Data masking

**Answer:** C

**Explanation:**

an IDS (Intrusion Detection System) and a WAF (Web Application Firewall) are both used to monitor and protect web applications from common attacks such as cross-site scripting and SQL injection<sup>12</sup>. However, these attacks can also be hidden in encrypted HTTPS traffic, which uses the TLS (Transport Layer Security) protocol to provide cryptography and authentication between two communicating applications<sup>34</sup>. Therefore, in order for an IDS and a WAF to be effective on HTTPS traffic, they need to be able to decrypt and inspect the data that flows in the TLS tunnel. This is achieved by using a feature called TLS inspection<sup>3n45</sup>, which creates two dedicated TLS connections: one with the web server and another with the client. The firewall then uses a customer-provided CA (Certificate Authority) certificate to generate an on-the-fly certificate that replaces the web server certificate and shares it with the client. This way, the firewall can see the content of the HTTPS traffic and apply the IDS and WAF rules accordingly<sup>34</sup>.

**NEW QUESTION 127**

- (Exam Topic 1)

During a security assessment, a security finds a file with overly permissive permissions. Which of the following tools will allow the analyst to reduce the permission for the existing users and groups and remove the set-user-ID from the file?

- A. 1s
- B. chflags
- C. chmod
- D. lsof
- E. setuid

**Answer:** C

**Explanation:**

The chmod command is used to change the permissions of a file or directory. The analyst can use chmod to reduce the permissions for existing users and groups and remove the set-user-ID bit from the file. References:

➤ CompTIA Security+ Study Guide Exam SY0-601, Chapter 6

**NEW QUESTION 132**

- (Exam Topic 1)

Which of the following would MOST likely be identified by a credentialed scan but would be missed by an uncredentialed scan?

- A. Vulnerabilities with a CVSS score greater than 6.9.
- B. Critical infrastructure vulnerabilities on non-IP protocols.
- C. CVEs related to non-Microsoft systems such as printers and switches.
- D. Missing patches for third-party software on Windows workstations and servers.

**Answer:** D

**Explanation:**

An uncredentialed scan would miss missing patches for third-party software on Windows workstations and servers. A credentialed scan, however, can scan the registry and file system to determine the patch level of third-party applications. References: CompTIA Security+ Study Guide by Emmett Dulaney, Chapter 4: Identity and Access Management, The Importance of Credentialing Scans

**NEW QUESTION 137**

- (Exam Topic 1)

The spread of misinformation surrounding the outbreak of a novel virus on election day led to eligible voters choosing not to take the risk of going the polls. This is an example of:

- A. prepending.
- B. an influence campaign.
- C. a watering-hole attack.
- D. intimidation.
- E. information elicitation.

**Answer: B**

**Explanation:**

This scenario describes an influence campaign, where false information is spread to influence or manipulate people's beliefs or actions. In this case, the misinformation led eligible voters to avoid polling places, which influenced the outcome of the election.

**NEW QUESTION 139**

- (Exam Topic 1)

During an incident, a company's CIRT determines it is necessary to observe the continued network-based transactions between a callback domain and the malware running on an enterprise PC. Which of the following techniques would be BEST to enable this activity while reducing the risk of lateral spread and the risk that the adversary would notice any changes?

- A. Physically move the PC to a separate Internet point of presence.
- B. Create and apply microsegmentation rules,
- C. Emulate the malware in a heavily monitored DMZ segment
- D. Apply network blacklisting rules for the adversary domain

**Answer: C**

**Explanation:**

Emulating the malware in a heavily monitored DMZ segment is the best option for observing network-based transactions between a callback domain and the malware running on an enterprise PC. This approach provides an isolated environment for the malware to run, reducing the risk of lateral spread and detection by the adversary. Additionally, the DMZ can be monitored closely to gather intelligence on the adversary's tactics and techniques. References: CompTIA Security+ Study Guide, page 129

**NEW QUESTION 140**

- (Exam Topic 1)

An employee received multiple messages on a mobile device. The messages instructing the employee to pair the device to an unknown device. Which of the following BEST describes What a malicious person might be doing to cause this issue to occur?

- A. Jamming
- B. Bluesnarfing
- C. Evil twin
- D. Rogue access point

**Answer: B**

**Explanation:**

Bluesnarfing is a hacking technique that exploits Bluetooth connections to snatch data from a wireless device. An attacker can perform bluesnarfing when the Bluetooth function is on and your device is discoverable by other devices within range. In some cases, attackers can even make calls from their victim's phone.

**NEW QUESTION 142**

- (Exam Topic 1)

A cybersecurity administrator needs to allow mobile BYOD devices to access network resources. As the devices are not enrolled to the domain and do not have policies applied to them, which of the following are best practices for authentication and infrastructure security? (Select TWO).

- A. Create a new network for the mobile devices and block the communication to the internal network and servers
- B. Use a captive portal for user authentication.
- C. Authenticate users using OAuth for more resiliency
- D. Implement SSO and allow communication to the internal network
- E. Use the existing network and allow communication to the internal network and servers.
- F. Use a new and updated RADIUS server to maintain the best solution

**Answer: BC**

**Explanation:**

When allowing mobile BYOD devices to access network resources, using a captive portal for user authentication and authenticating users using OAuth are both best practices for authentication and infrastructure security. A captive portal requires users to authenticate before accessing the network and can be used to enforce policies and restrictions. OAuth allows users to authenticate using third-party providers, reducing the risk of password reuse and credential theft. References: CompTIA Security+ Study Guide, pages 217-218, 225-226

**NEW QUESTION 143**

- (Exam Topic 1)

A company is required to continue using legacy software to support a critical service. Which of the following BEST explains a risk of this practice?

- A. Default system configuration
- B. Unsecure protocols
- C. Lack of vendor support

D. Weak encryption

**Answer:** C

**Explanation:**

Using legacy software to support a critical service poses a risk due to lack of vendor support. Legacy software is often outdated and unsupported, which means that security patches and upgrades are no longer available. This can leave the system vulnerable to exploitation by attackers who may exploit known vulnerabilities in the software to gain unauthorized access to the system.

Reference: CompTIA Security+ Study Guide, Exam SY0-601, Chapter 1: Attacks, Threats, and Vulnerabilities

**NEW QUESTION 144**

- (Exam Topic 1)

A business is looking for a cloud service provider that offers a la carte services, including cloud backups, VM elasticity, and secure networking. Which of the following cloud service provider types should business engage?

- A. A IaaS
- B. PaaS
- C. XaaS
- D. SaaS

**Answer:** A

**Explanation:**

Infrastructure as a Service (IaaS) providers offer a la carte services, including cloud backups, VM elasticity, and secure networking. With IaaS, businesses can rent infrastructure components such as virtual machines, storage, and networking from a cloud service provider. References: CompTIA Security+ Study Guide, pages 233-234

**NEW QUESTION 149**

- (Exam Topic 1)

A new vulnerability in the SMB protocol on the Windows systems was recently discovered, but no patches are currently available to resolve the issue. The security administrator is concerned if servers in the company's DMZ will be vulnerable to external attack; however, the administrator cannot disable the service on the servers, as SMB is used by a number of internal systems and applications on the LAN. Which of the following TCP ports should be blocked for all external inbound connections to the DMZ as a workaround to protect the servers? (Select TWO).

- A. 135
- B. 139
- C. 143
- D. 161
- E. 443
- F. 445

**Answer:** BF

**Explanation:**

To protect the servers in the company's DMZ from external attack due to the new vulnerability in the SMB protocol on the Windows systems, the security administrator should block TCP ports 139 and 445 for all external inbound connections to the DMZ. SMB uses TCP port 139 and 445. Blocking these ports will prevent external attackers from exploiting the vulnerability in SMB protocol on Windows systems. Blocking TCP ports 139 and 445 for all external inbound connections to the DMZ can help protect the servers, as these ports are used by SMB protocol. Port 135 is also associated with SMB, but it is not commonly used. Ports 143 and 161 are associated with other protocols and services. Reference: CompTIA Security+ Certification Exam Objectives, Exam SY0-601, 1.4 Compare and contrast network architecture and technologies.

**NEW QUESTION 151**

- (Exam Topic 1)

A large enterprise has moved all its data to the cloud behind strong authentication and encryption. A sales director recently had a laptop stolen, and later, enterprise data was found to have been compromised from a local database. Which of the following was the MOST likely cause?

- A. Shadow IT
- B. Credential stuffing
- C. SQL injection
- D. Man in the browser
- E. Bluejacking

**Answer:** A

**Explanation:**

The most likely cause of the enterprise data being compromised from a local database is Shadow IT. Shadow IT is the use of unauthorized applications or devices by employees to access company resources. In this case, the sales director's laptop was stolen, and the attacker was able to use it to access the local database, which was not secured properly, allowing unauthorized access to sensitive data. References:

➤ CompTIA Security+ Certification Exam Objectives - Exam SY0-601

**NEW QUESTION 155**

- (Exam Topic 1)

Which of the following conditions impacts data sovereignty?

- A. Rights management
- B. Criminal investigations
- C. Healthcare data
- D. International operations

**Answer:** D

**Explanation:**

Data sovereignty refers to the legal concept that data is subject to the laws and regulations of the country in which it is located. International operations can impact data sovereignty as companies operating in multiple countries may need to comply with different laws and regulations. References:

➤ CompTIA Security+ Study Guide, Exam SY0-601, 4th Edition, Chapter 5

**NEW QUESTION 156**

- (Exam Topic 1)

Which of the following roles would MOST likely have direct access to the senior management team?

- A. Data custodian
- B. Data owner
- C. Data protection officer
- D. Data controller

**Answer:** C

**Explanation:**

A data protection officer (DPO) is a role that oversees the data protection strategy and compliance of an organization. A DPO is responsible for ensuring that the organization follows data protection laws and regulations, such as the General Data Protection Regulation (GDPR), and protects the privacy rights of data subjects. A DPO also acts as a liaison between the organization and data protection authorities, as well as data subjects and other stakeholders.

A DPO would most likely have direct access to the senior management team, as they need to report on data protection issues, risks, and incidents, and advise on data protection policies and practices.

The other options are not correct because:

➤ A. Data custodian is a role that implements and maintains the technical controls and procedures for data security and integrity. A data custodian does not have direct access to the senior management team, as they are more involved in operational tasks than strategic decisions.

➤ B. Data owner is a role that determines the classification and usage of data within an organization. A data owner does not have direct access to the senior management team, as they are more involved in business functions than data protection compliance.

➤ D. Data controller is a role that determines the purposes and means of processing personal data within an organization. A data controller does not have direct access to the senior management team, as they are more involved in data processing activities than data protection oversight.

According to CompTIA Security+ SY0-601 Exam Objectives 2.3 Given a scenario, implement secure protocols:

“A data protection officer (DPO) is a role that oversees the data protection strategy and compliance of an organization.”

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>

<https://gdpr-info.eu/issues/data-protection-officer/>

**NEW QUESTION 161**

- (Exam Topic 1)

The technology department at a large global company is expanding its Wi-Fi network infrastructure at the headquarters building Which of the following should be closely coordinated between the technology, cybersecurity, and physical security departments?

- A. Authentication protocol
- B. Encryption type
- C. WAP placement
- D. VPN configuration

**Answer:** C

**Explanation:**

WAP stands for wireless access point, which is a device that allows wireless devices to connect to a wired network using Wi-Fi or Bluetooth. WAP placement refers to where and how WAPs are installed in a building or area.

WAP placement should be closely coordinated between the technology, cybersecurity, and physical security departments because it affects several aspects of network performance and security, such as:

➤ Coverage: WAP placement determines how well wireless devices can access the network throughout the building or area. WAPs should be placed in locations that provide optimal signal strength and avoid interference from other sources.

➤ Capacity: WAP placement determines how many wireless devices can connect to the network simultaneously without affecting network speed or quality. WAPs should be placed in locations that balance network load and avoid congestion or bottlenecks.

➤ Security: WAP placement determines how vulnerable wireless devices are to eavesdropping or hacking attacks from outside or inside sources. WAPs should be placed in locations that minimize exposure to unauthorized access and maximize encryption and authentication methods.

**NEW QUESTION 162**

- (Exam Topic 1)

Per company security policy, IT staff members are required to have separate credentials to perform administrative functions using just-in-time permissions. Which of the following solutions is the company implementing?

- A. Privileged access management
- B. SSO
- C. RADIUS
- D. Attribute-based access control

**Answer:** A

**Explanation:**

The company is implementing privileged access management, which provides just-in-time permissions for administrative functions.

**NEW QUESTION 166**

- (Exam Topic 1)

During an investigation, the incident response team discovers that multiple administrator accounts were suspected of being compromised. The host audit logs

indicate a repeated brute-force attack on a single administrator account followed by suspicious logins from unfamiliar geographic locations. Which of the following data sources would be BEST to use to assess the accounts impacted by this attack?

- A. User behavior analytics
- B. Dump files
- C. Bandwidth monitors
- D. Protocol analyzer output

**Answer:** A

**Explanation:**

User behavior analytics (UBA) would be the best data source to assess the accounts impacted by the attack, as it can identify abnormal activity, such as repeated brute-force attacks and logins from unfamiliar geographic locations, and provide insights into the behavior of the impacted accounts. References: CompTIA Security+ Study Guide, Exam SY0-601, 4th Edition, Chapter 7: Incident Response, pp. 338-341

**NEW QUESTION 169**

- (Exam Topic 1)

A company recently experienced an attack during which 5 main website was directed to the attack-er's web server, allowing the attacker to harvest credentials from unsuspecting customers. Which of the following should the company Implement to prevent this type of attack from occurring in the future?

- A. IPSec
- B. SSL/TLS
- C. DNSSEC
- D. S/MIME

**Answer:** C

**Explanation:**

The attack described in the question is known as a DNS hijacking attack. In this type of attack, an attacker modifies the DNS records of a domain name to redirect traffic to their own server. This allows them to intercept traffic and steal sensitive information such as user credentials.

To prevent this type of attack from occurring in the future, the company should implement C. DNSSEC.

DNSSEC (Domain Name System Security Extensions) is a security protocol that adds digital signatures to DNS records. This ensures that DNS records are not modified during transit and prevents DNS hijacking attacks.

**NEW QUESTION 173**

- (Exam Topic 1)

A security engineer needs to create a network segment that can be used for servers that require connections from untrusted networks. Which of the following should the engineer implement?

- A. An air gap
- B. A hot site
- C. A VUAN
- D. A screened subnet

**Answer:** D

**Explanation:**

A screened subnet is a network segment that can be used for servers that require connections from untrusted networks. It is placed between two firewalls, with one firewall facing the untrusted network and the other facing the trusted network. This setup provides an additional layer of security by screening the traffic that flows between the two networks. References: CompTIA Security+ Certification Guide, Exam SY0-501

**NEW QUESTION 175**

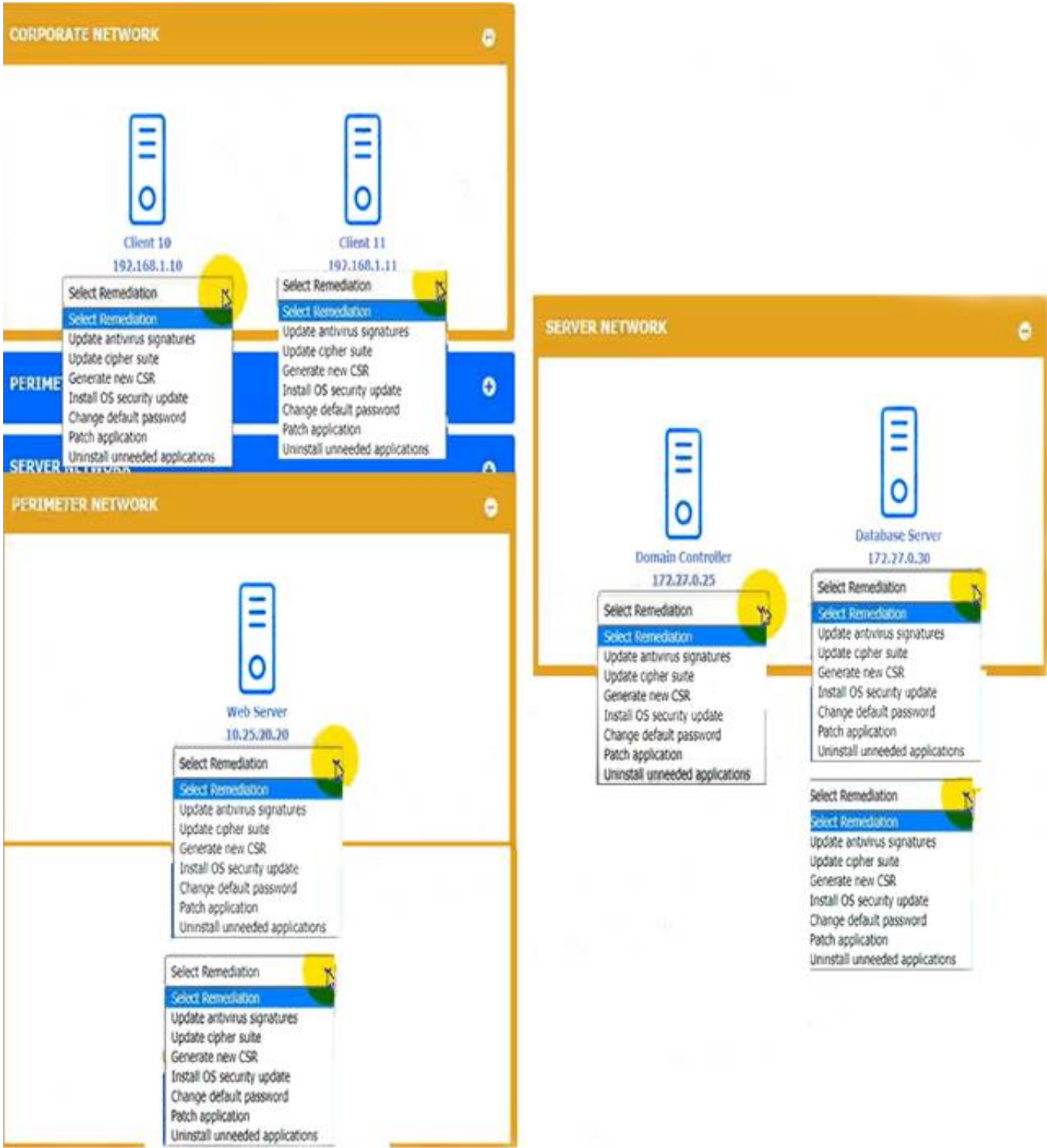
- (Exam Topic 1)

You received the output of a recent vulnerability assessment.

Review the assessment and scan output and determine the appropriate remedialion(s) 'or «ach dewce. Remediation options may be selected multiple times, and some devices may require more than one remediation.

If at any time you would like to biing bade the initial state ot the simulation, please dick me Reset All button.





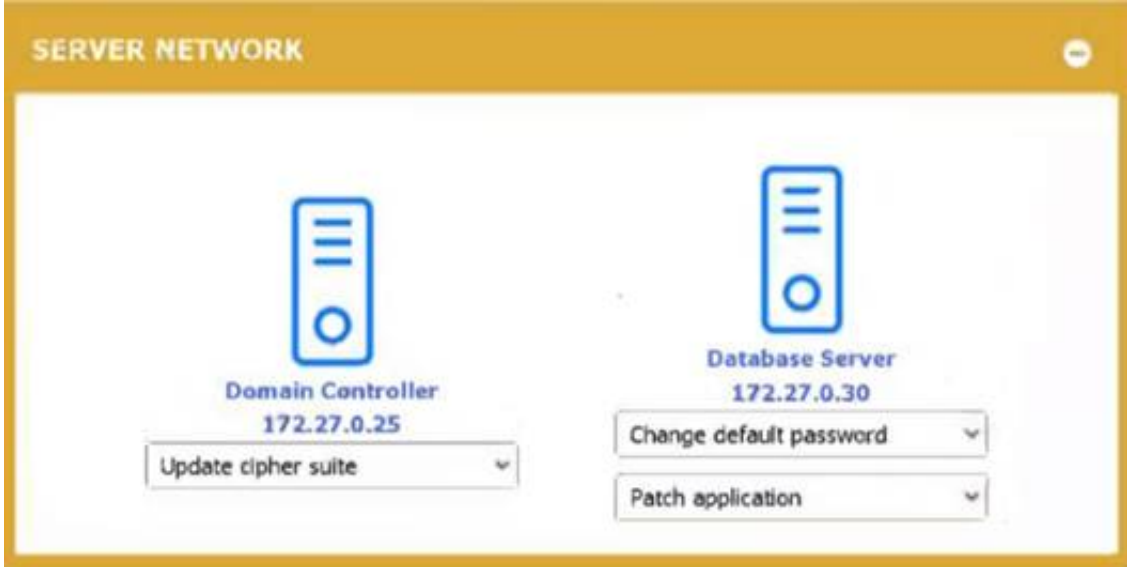
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



Graphical user interface, application, website, Teams Description automatically generated



Graphical user interface, text, application Description automatically generated



#### NEW QUESTION 180

- (Exam Topic 1)

Which of the following authentication methods sends out a unique password to be used within a specific number of seconds?

- A. TOTP
- B. Biometrics
- C. Kerberos
- D. LDAP

**Answer:** A

#### Explanation:

Time-based One-Time Password (TOTP) is a type of authentication method that sends out a unique password to be used within a specific number of seconds. It uses a combination of a shared secret key and the current time to generate a one-time password. TOTP is commonly used for two-factor authentication (2FA) to provide an additional layer of security beyond just a username and password.

#### NEW QUESTION 185

- (Exam Topic 1)

An employee's company account was used in a data breach Interviews with the employee revealed:

- The employee was able to avoid changing passwords by using a previous password again.
- The account was accessed from a hostile, foreign nation, but the employee has never traveled to any other countries.

Which of the following can be implemented to prevent these issues from reoccurring? (Select TWO)

- A. Geographic dispersal
- B. Password complexity
- C. Password history
- D. Geotagging
- E. Password lockout
- F. Geofencing

**Answer:** CF

#### Explanation:

two possible solutions that can be implemented to prevent these issues from reoccurring are password history and geofencing. Password history is a feature that prevents users from reusing their previous passwords. This can enhance password security by forcing users to create new and unique passwords periodically. Password history can be configured by setting a policy that specifies how many previous passwords are remembered and how often users must change their passwords.

Geofencing is a feature that restricts access to a system or network based on the geographic location of the user or device. This can enhance security by preventing unauthorized access from hostile or foreign regions. Geofencing can be implemented by using GPS, IP address, or other methods to determine the location of the user or device and compare it with a predefined set of boundaries.

#### NEW QUESTION 188

- (Exam Topic 1)

A security administrator is working on a solution to protect passwords stored in a database against rainbow table attacks Which of the following should the administrator consider?

- A. Hashing
- B. Salting
- C. Lightweight cryptography
- D. Steganography

**Answer:** B

#### Explanation:

Salting is a technique that adds random data to a password before hashing it. This makes the hash output more unique and unpredictable, and prevents attackers from using precomputed tables (such as rainbow tables) to crack the password hash. Salting also reduces the risk of collisions, which occur when different passwords produce the same hash.

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>  
<https://auth0.com/blog/adding-salt-to-hashing-a-better-way-to-store-passwords/>

#### NEW QUESTION 189

- (Exam Topic 1)

A security analyst reports a company policy violation in a case in which a large amount of sensitive data is being downloaded after hours from various mobile devices to an external site. Upon further investigation, the analyst notices that successful login attempts are being conducted with impossible travel times during the same time periods when the unauthorized downloads are occurring. The analyst also discovers a couple of WAPs are using the same SSID, but they have non-standard DHCP configurations and an overlapping channel. Which of the following attacks is being conducted?

- A. Evil twin
- B. Jamming
- C. DNS poisoning
- D. Bluesnarfing
- E. DDoS

**Answer:** A

**Explanation:**

The attack being conducted is an Evil twin attack. An Evil twin attack involves creating a rogue wireless access point (WAP) with the same Service Set Identifier (SSID) as a legitimate WAP to trick users into connecting to it. Once connected, the attacker can intercept traffic or steal login credentials. The successful login attempts with impossible travel times suggest that an attacker is using a stolen or compromised credential to access the external site to which the sensitive data is being downloaded. The non-standard DHCP configurations and overlapping channels of the WAPs suggest that the attacker is using a rogue WAP to intercept traffic. References: CompTIA Security+ Certification Exam Objectives, Exam Domain 1.0: Attacks, Threats, and Vulnerabilities, 1.4 Compare and contrast types of attacks, p. 8

**NEW QUESTION 193**

- (Exam Topic 1)

As part of a company's ongoing SOC maturation process, the company wants to implement a method to share cyberthreat intelligence data with outside security partners. Which of the following will the company MOST likely implement?

- A. TAXII
- B. TLP
- C. TTP
- D. STIX

**Answer:** A

**Explanation:**

Trusted Automated Exchange of Intelligence Information (TAXII) is a standard protocol that enables the sharing of cyber threat intelligence between organizations. It allows organizations to automate the exchange of information in a secure and timely manner. References: CompTIA Security+ Certification Exam Objectives 3.6 Given a scenario, implement secure network architecture concepts. Study Guide: Chapter 4, page 167.

**NEW QUESTION 197**

- (Exam Topic 1)

Which of the following environments utilizes dummy data and is MOST likely to be installed locally on a system that allows code to be assessed directly and modified easily with each build?

- A. Production
- B. Test
- C. Staging
- D. Development

**Answer:** D

**Explanation:**

A development environment is the environment that is used to develop and test software. It is typically installed locally on a system that allows code to be assessed directly and modified easily with each build. In this environment, dummy data is often utilized to test the software's functionality. Reference: CompTIA Security+ Study Guide, Exam SY0-601, Chapter 3: Architecture and Design

**NEW QUESTION 199**

- (Exam Topic 1)

The Chief Information Security Officer directed a risk reduction in shadow IT and created a policy requiring all unsanctioned high-risk SaaS applications to be blocked from user access. Which of the following is the BEST security solution to reduce this risk?

- A. CASB
- B. VPN concentrator
- C. MFA
- D. VPC endpoint

**Answer:** A

**Explanation:**

A Cloud Access Security Broker (CASB) can be used to monitor and control access to cloud-based applications, including unsanctioned SaaS applications. It can help enforce policies that prevent access to high-risk SaaS applications and provide visibility into the use of such applications by employees. References: CompTIA Security+ SY0-601 Exam Objectives: 3.3 Given a scenario, implement secure mobile solutions.

**NEW QUESTION 202**

- (Exam Topic 1)

A security analyst needs an overview of vulnerabilities for a host on the network. Which of the following is the BEST type of scan for the analyst to run to discover which vulnerable services are running?

- A. Non-credentialed
- B. Web application
- C. Privileged
- D. Internal

**Answer:** C

**Explanation:**

Privileged scanning, also known as credentialed scanning, is a type of vulnerability scanning that uses a valid user account to log in to the target host and examine vulnerabilities from a trusted user's perspective. It can provide more accurate and comprehensive results than unprivileged scanning, which does not use any credentials and only scans for externally visible vulnerabilities.

**NEW QUESTION 207**

- (Exam Topic 1)

An enterprise has hired an outside security firm to facilitate penetration testing on its network and applications. The firm has agreed to pay for each vulnerability that is discovered. Which of the following BEST represents the type of testing that is being used?

- A. White-box
- B. Red-team
- C. Bug bounty
- D. Gray-box
- E. Black-box

**Answer: C**

**Explanation:**

Bug bounty is a type of testing in which an organization offers a reward or compensation to anyone who can identify vulnerabilities or security flaws in their network or applications. The outside security firm has agreed to pay for each vulnerability found, which is an example of a bug bounty program.

**NEW QUESTION 208**

- (Exam Topic 2)

A security architect at a large, multinational organization is concerned about the complexities and overhead of managing multiple encryption keys securely in a multicloud provider environment. The security architect is looking for a solution with reduced latency to allow the incorporation of the organization's existing keys and to maintain consistent, centralized control and management regardless of the data location. Which of the following would best meet the architect's objectives?

- A. Trusted Platform Module
- B. IaaS
- C. HSMaaS
- D. PaaS

**Answer: C**

**Explanation:**

HSMaaS stands for Hardware Security Module as a Service, which is a cloud-based service that provides secure and scalable key management and cryptographic operations for data encryption and decryption. HSMaaS allows the organization to use its own keys or generate new ones, and to control and manage them centrally regardless of where the data is stored or processed. HSMaaS also reduces the latency and complexity of managing multiple encryption keys across different cloud providers, as well as the cost and maintenance of deploying physical HSM devices.

\* A. Trusted Platform Module. This is not the correct answer, because a Trusted Platform Module (TPM) is a hardware chip that provides secure storage and generation of cryptographic keys on a device, such as a laptop or a server. A TPM does not offer a cloud-based solution for key management and encryption across multiple cloud providers.

\* B. IaaS. This is not the correct answer, because IaaS stands for Infrastructure as a Service, which is a cloud computing model that provides virtualized computing resources, such as servers, storage, and networks, over the internet. IaaS does not provide a specific solution for key management and encryption across multiple cloud providers.

\* C. HSMaaS. This is the correct answer, because HSMaaS stands for Hardware Security Module as a Service, which is a cloud-based service that provides secure and scalable key management and cryptographic operations for data encryption and decryption across multiple cloud providers.

\* D. PaaS. This is not the correct answer, because PaaS stands for Platform as a Service, which is a cloud computing model that provides a platform for developing and deploying applications over the internet. PaaS does not provide a specific solution for key management and encryption across multiple cloud providers.

Reference: HSM as a Service (HSMaaS) | Encryption Consulting, What Is Hardware Security Module (HSM) | Thales.

**NEW QUESTION 209**

- (Exam Topic 2)

The application development teams have been asked to answer the following questions:

- > Does this application receive patches from an external source?
- > Does this application contain open-source code?
- > Is this application accessible by external users?
- > Does this application meet the corporate password standard? Which of the following are these questions part of?

- A. Risk control self-assessment
- B. Risk management strategy
- C. Risk acceptance
- D. Risk matrix

**Answer: A**

**Explanation:**

A risk control self-assessment (RCSA) is a process that allows an organization to identify, evaluate, and mitigate the risks associated with its activities, processes, systems, and products. A RCSA involves asking relevant questions to assess the effectiveness of existing controls and identify any gaps or weaknesses that need improvement. A RCSA also helps to align the risk appetite and tolerance of the organization with its strategic objectives and performance.

The application development teams have been asked to answer questions related to their applications' security posture, such as whether they receive patches from an external source, contain open-source code, are accessible by external users, or meet the corporate password standard. These questions are part of a RCSA process that aims to evaluate the potential risks and vulnerabilities associated with each application and determine how well they are managed and mitigated.



### NEW QUESTION 213

- (Exam Topic 2)

An analyst is working on an email security incident in which the target opened an attachment containing a worm. The analyst wants to Implement mitigation techniques to prevent further spread. Which of the following is the best course of action for the analyst to take?

- A. Apply a DLP solution.
- B. Implement network segmentation.
- C. Utilize email content filtering.
- D. Isolate the infected attachment.

**Answer: D**

#### Explanation:

Isolating the infected attachment is the best course of action for the analyst to take to prevent further spread of the worm. A worm is a type of malware that can self-replicate and infect other devices without human interaction. By isolating the infected attachment, the analyst can prevent the worm from spreading to other devices or networks via email, file-sharing, or other means. Isolating the infected attachment can also help the analyst to analyze the worm and determine its source, behavior, and impact. References:

- > <https://www.security.org/antivirus/computer-worm/>
- > [https://sec.cloudapps.cisco.com/security/center/resources/worm\\_mitigation\\_whitepaper.html](https://sec.cloudapps.cisco.com/security/center/resources/worm_mitigation_whitepaper.html)

### NEW QUESTION 217

- (Exam Topic 2)

A security investigation revealed that malicious software was installed on a server using a server administrator credentials. During the investigation the server administrator explained that Telnet was regularly used to log in. Which of the following most likely occurred?

- A. A spraying attack was used to determine which credentials to use
- B. A packet capture tool was used to steal the password
- C. A remote-access Trojan was used to install the malware
- D. A directory attack was used to log in as the server administrator

**Answer: B**

#### Explanation:

Telnet is an insecure protocol that transmits data in cleartext over the network. This means that anyone who can intercept the network traffic can read the data, including the username and password of the server administrator. A packet capture tool is a software or hardware device that can capture and analyze network packets. An attacker can use a packet capture tool to steal the password and use it to install malicious software on the server. References: <https://www.comptia.org/content/guides/what-is-network-security>

### NEW QUESTION 218

- (Exam Topic 2)

An attack has occurred against a company.

#### INSTRUCTIONS

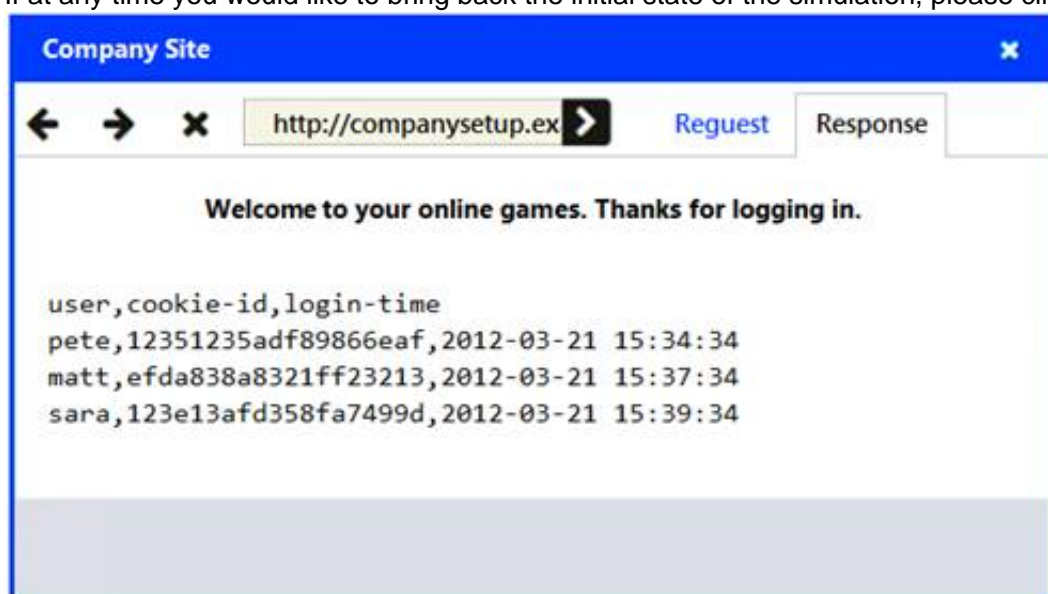
You have been tasked to do the following:

Identify the type of attack that is occurring on the network by clicking on the attacker's tablet and reviewing the output. (Answer Area 1).

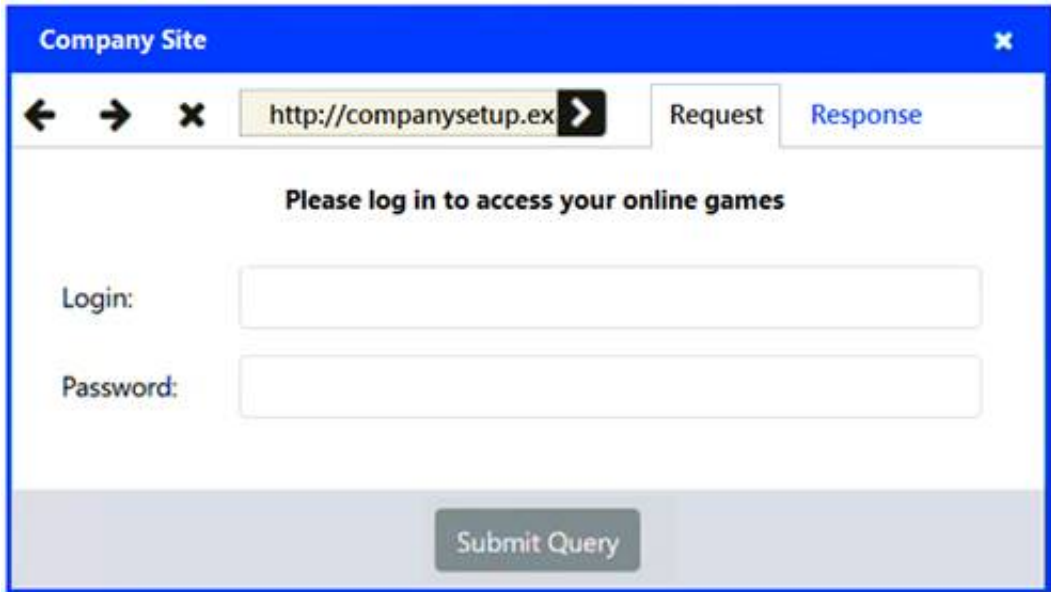
Identify which compensating controls should be implemented on the assets, in order to reduce the effectiveness of future attacks by dragging them to the correct server.

(Answer area 2) All objects will be used, but not all placeholders may be filled. Objects may only be used once.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.







Select and Place:

SQL Injection

Cross Site Scripting

XML Injection

Session Hijacking

Type of attack:  

?

Input Validation

Code Review

WAF

URL Filtering

Record level access control

Attacker Tablet

Anonymizer

Internet

Firewall

Switch A

Router

Web Server

Database

Application Source Code within repository

Switch B

CRM Server

?

?

?

?

?

?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A computer screen shot of a computer Description automatically generated with low confidence

NEW QUESTION 219

- (Exam Topic 2)

A network manager is concerned that business may be negatively impacted if the firewall in its data center goes offline. The manager would like to implement a high availability pair to:

- A. decrease the mean time between failures.
- B. remove the single point of failure.
- C. cut down the mean time to repair
- D. reduce the recovery time objective

Answer: B

Explanation:

A single point of failure is a component or element of a system that, if it fails, will cause the entire system to fail or stop functioning. It can pose a high risk and impact for business continuity and availability. A high availability pair is a configuration that involves two identical devices or systems that operate in parallel and provide redundancy and failover capabilities. It can remove the single point of failure by ensuring that if one device or system fails, the other one can take over its functions without interruption or downtime.

NEW QUESTION 220

- (Exam Topic 2)

An organization has hired a security analyst to perform a penetration test The analyst captures 1Gb worth of inbound network traffic to the server and transfers the pcap back to the machine for analysis. Which of the following tools should the analyst use to further review the pcap?

- A. Nmap
- B. CURL
- C. Neat
- D. Wireshark

**Answer:** D

**Explanation:**

Wireshark is a tool that can analyze pcap files, which are files that capture network traffic. Wireshark can display the packets, protocols, and other details of the network traffic in a graphical user interface. Nmap is a tool that can scan networks and hosts for open ports and services. CURL is a tool that can transfer data from or to a server using various protocols. Neat is a tool that can test network performance and quality.

**NEW QUESTION 222**

- (Exam Topic 2)

An organization wants to quickly assess how effectively the IT team hardened new laptops Which of the following would be the best solution to perform this assessment?

- A. Install a SIEM tool and properly configure it to read the OS configuration files.
- B. Load current baselines into the existing vulnerability scanner.
- C. Maintain a risk register with each security control marked as compliant or non-compliant.
- D. Manually review the secure configuration guide checklists.

**Answer:** B

**Explanation:**

A vulnerability scanner is a tool that can scan devices and systems for known vulnerabilities, misconfigurations, and compliance issues. By loading the current baselines into the scanner, the organization can compare the actual state of the new laptops with the desired state and identify any deviations or weaknesses. This is a quick and automated way to assess the hardening of the new laptops.

**NEW QUESTION 227**

- (Exam Topic 2)

A security administrator needs to provide secure access to internal networks for external partners The administrator has given the PSK and other parameters to the third-party security administrator. Which of the following is being used to establish this connection?

- A. Kerberos
- B. SSL/TLS
- C. IPSec
- D. SSH

**Answer:** C

**Explanation:**

IPSec is a protocol suite that provides secure communication over IP networks. It uses encryption, authentication, and integrity mechanisms to protect data from unauthorized access or modification. IPSec can operate in two modes: transport mode and tunnel mode. In tunnel mode, IPSec can create a virtual private network (VPN) between two endpoints, such as external partners and internal networks. To establish a VPN connection, IPSec requires a pre-shared key (PSK) or other parameters to negotiate the security association. References:  
<https://www.comptia.org/content/guides/what-is-vpn>

**NEW QUESTION 230**

- (Exam Topic 2)

Which of the following cloud models provides clients with servers, storage, and networks but nothing else?

- A. SaaS
- B. PaaS
- C. IaaS
- D. DaaS

**Answer:** C

**Explanation:**

IaaS (Infrastructure as a Service) is a cloud model that provides clients with servers, storage, and networks but nothing else. It allows clients to have more control and flexibility over the configuration and management of their infrastructure resources, but also requires them to install and maintain their own operating systems, applications, etc.

**NEW QUESTION 235**

- (Exam Topic 2)

A systems administrator needs to install a new wireless network for authenticated guest access. The wireless network should support 802.1X using the most secure encryption and protocol available.

Perform the following steps:

- \* 1. Configure the RADIUS server.
- \* 2. Configure the WiFi controller.
- \* 3. Preconfigure the client for an incoming guest. The guest AD credentials are:  
User: guest01 Password: guestpass



The image shows a 'WiFi Controller' configuration window. It contains the following fields: SSID (CORPGUEST), Shared key (empty), AAA server IP (empty), PSK (empty), Authentication type (dropdown menu), and Controller IP (192.168.1.10). At the bottom are three buttons: 'Reset Answer', 'Save', and 'Close'.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Wifi Controller SSID: CORPGUEST  
SHARED KEY: Secret  
AAA server IP: 192.168.1.20  
PSK: Blank  
Authentication type: WPA2-EAP-PEAP-MSCHAPv2 Controller IP: 192.168.1.10  
Radius Server Shared Key: Secret  
Client IP: 192.168.1.10  
Authentication Type: Active Directory Server IP: 192.168.1.20  
Wireless Client SSID: CORPGUEST  
Username: guest01 Userpassword: guestpass PSK: Blank  
Authentication type: WPA2-Enterprise

**NEW QUESTION 239**

- (Exam Topic 2)

Which of the following would be most effective to contain a rapidly spreading attack that is affecting a large number of organizations?

- A. Machine learning
- B. DNS sinkhole
- C. Blocklist
- D. Honey pot

**Answer:** B

**Explanation:**

A DNS sinkhole would be most effective to contain a rapidly spreading attack that is affecting a large number of organizations. A DNS sinkhole is a technique that involves redirecting malicious or unwanted domain names to an alternative IP address, such as a black hole, a honeypot, or a warning page. A DNS sinkhole can help to prevent or disrupt the communication between infected systems and command-and-control servers, malware distribution sites, phishing sites, or botnets. A DNS sinkhole can also help to identify and isolate infected systems by monitoring the traffic to the sinkhole IP address. References:

<https://www.comptia.org/blog/what-is-a-dns-sinkhole>

<https://www.certblaster.com/wp-content/uploads/2020/11/CompTIA-Security-SY0-601-Exam-Objectives-1.0.pdf>

**NEW QUESTION 244**

- (Exam Topic 2)

A security engineer is investigating a penetration test report that states the company website is vulnerable to a web application attack. While checking the web logs from the time of the test, the engineer notices several invalid web form submissions using an unusual address: "SELECT \* FROM customername". Which of the following is most likely being attempted?

- A. Directory traversal
- B. SQL injection
- C. Privilege escalation
- D. Cross-site scripting

**Answer:** B

**Explanation:**

SQL injection is a web application attack that involves inserting malicious SQL statements into an input field, such as a web form, to manipulate or access the database behind the application. SQL injection can be used to perform various actions, such as reading, modifying, or deleting data, executing commands on the database server, or bypassing authentication. In this scenario, the attacker is trying to use a SQL statement "SELECT \* FROM customername" to retrieve all data from the customername table in the database.

**NEW QUESTION 247**

- (Exam Topic 2)

During the onboarding process, an employee needs to create a password for an intranet account. The password must include ten characters, numbers, and letters, and two special characters. Once the password is created, the company will grant the employee access to other company-owned websites based on the intranet profile. Which of the following access management concepts is the company most likely using to safeguard intranet accounts and grant access to multiple sites

based on a user's intranet account? (Select two).

- A. Federation
- B. Identity proofing
- C. Password complexity
- D. Default password changes
- E. Password manager
- F. Open authentication

**Answer:** AF

**Explanation:**

Federation is an access management concept that allows users to authenticate once and access multiple applications or services that trust the same identity provider. Open authentication is a standard protocol that enables federation by allowing users to use their existing credentials from one service to access another service. The company is most likely using federation and open authentication to safeguard intranet accounts and grant access to multiple sites based on a user's intranet account. For example, the company could use an identity provider such as Azure AD or Keycloak to manage the user identities and credentials for the intranet account, and then use open authentication to allow the users to access other company-owned websites without having to log in again. References:

- > <https://www.keycloak.org/>
- > <https://learn.microsoft.com/en-us/azure/active-directory/hybrid/connect/whatis-fed>

**NEW QUESTION 250**

- (Exam Topic 2)

A security team is conducting a security review of a hosted data provider. The management team has asked the hosted data provider to share proof that customer data is being appropriately protected.

Which of the following would provide the best proof that customer data is being protected?

- A. SOC2
- B. CSA
- C. CSF
- D. ISO 31000

**Answer:** A

**Explanation:**

SOC2 is a type of audit report that provides assurance on the security, availability, processing integrity, confidentiality, and privacy of a service organization's systems. It is based on the Trust Services Criteria developed by the American Institute of Certified Public Accountants (AICPA). A SOC2 report can provide proof that customer data is being appropriately protected by the hosted data provider<sup>1</sup>

<https://www.csagroup.org/store/product/50072454/> 3: <https://www.csagroup.org/store/product/50072454os/> 1: <https://cloudsecurityalliance.org/blog/2021/08/20/star-testimonial-csa-star-soc2-from-readiness-to-attestation/>

**NEW QUESTION 253**

- (Exam Topic 2)

A small, local company experienced a ransomware attack. The company has one web-facing server and a few workstations. Everything is behind an ISP firewall. A single web-facing server is set up on the router to forward all ports so that the server is viewable from the internet. The company uses an older version of third-party software to manage the website. The assets were never patched. Which of the following should be done to prevent an attack like this from happening again? (Select three).

- A. Install DLP software to prevent data loss.
- B. Use the latest version of software.
- C. Install a SIEM device.
- D. Implement MDM.
- E. Implement a screened subnet for the web server.
- F. Install an endpoint security solution.
- G. Update the website certificate and revoke the existing ones.
- H. Deploy additional network sensors.

**Answer:** BEF

**NEW QUESTION 255**

- (Exam Topic 2)

A data center has experienced an increase in under-voltage events following electrical grid maintenance outside the facility. These events are leading to occasional losses of system availability. Which of the following would be the most cost-effective solution for the data center to implement?

- A. Uninterruptible power supplies with battery backup
- B. Managed power distribution units to track these events
- C. A generator to ensure consistent, normalized power delivery
- D. Dual power supplies to distribute the load more evenly

**Answer:** A

**Explanation:**

Uninterruptible power supplies with battery backup would be the most cost-effective solution for the data center to implement to prevent under-voltage events following electrical grid maintenance outside the facility. An uninterruptible power supply (UPS) is a device that provides emergency power to a load when the main power source fails or drops below an acceptable level. A UPS with battery backup can help prevent under-voltage events by switching to battery power when it detects a voltage drop or outage in the main power source. A UPS with battery backup can also protect the data center equipment from power surges or spikes.

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>  
<https://www.apc.com/us/en/faqs/FA158852/>



**NEW QUESTION 260**

- (Exam Topic 2)

Which Of the following vulnerabilities is exploited an attacker Overwrite a reg-ister with a malicious address that changes the execution path?

- A. VM escape
- B. SQL injection
- C. Buffer overflow
- D. Race condition

**Answer: C**

**Explanation:**

A buffer overflow is a type of vulnerability that occurs when an attacker sends more data than a buffer can hold, causing the excess data to overwrite adjacent memory locations such as registers. It can allow an attacker to overwrite a register with a malicious address that changes the execution path and executes arbitrary code on the target system

**NEW QUESTION 265**

- (Exam Topic 2)

A network architect wants a server to have the ability to retain network availability even if one of the network switches it is connected to goes down. Which of the following should the architect implement on the server to achieve this goal?

- A. RAID
- B. UPS
- C. NIC teaming
- D. Load balancing

**Answer: C**

**Explanation:**

NIC Teaming is a feature that allows a server to be connected to multiple network switches, providing redundancy and increased network availability. If one of the switches goes down, the server will still be able to send and receive data through one of the other switches. To configure NIC Teaming in Windows Server, see Microsoft's documentation:

<https://docs.microsoft.com/en-us/windows-server/networking/technologies/nic-teaming>. For more information on NIC Teaming and other network redundancy features, refer to the CompTIA Security+ SY0-601 Official Text Book and Resources.

**NEW QUESTION 269**

- (Exam Topic 2)

Which Of the following security controls can be used to prevent multiple from using a unique card swipe and being admitted to a entrance?

- A. Visitor logs
- B. Faraday cages
- C. Access control vestibules
- D. Motion detection sensors

**Answer: C**

**Explanation:**

Access control vestibules are physical security controls that consist of two sets of doors or gates that create a small enclosed space between them. Only one door or gate can be opened at a time, and only one person can enter or exit the vestibule at a time. Access control vestibules can prevent multiple people from using a unique card swipe and being admitted to a secure entrance, as they require each person to authenticate individually and prevent tailgating or piggybacking.

**NEW QUESTION 270**

- (Exam Topic 2)

A security analyst is investigating what appears to be unauthorized access to a corporate web application. The security analyst reviews the web server logs and finds the following entries:

```
106.35.45.53 - - [22/May/2020:07:00:58 +0100] "GET /login?username=admin&pin=0000 HTTP/1.1" 200 11705
"http://www.example.com/login.php"
106.35.45.53 - - [22/May/2020:07:01:21 +0100] "GET /login?username=admin&pin=0001 HTTP/1.1" 200 11705
"http://www.example.com/login.php"
106.35.45.53 - - [22/May/2020:07:01:52 +0100] "GET /login?username=admin&pin=0002 HTTP/1.1" 200 11705
"http://www.example.com/login.php"
106.35.45.53 - - [22/May/2020:07:02:18 +0100] "GET /login?username=admin&pin=0003 HTTP/1.1" 200 11705
"http://www.example.com/login.php"
106.35.45.53 - - [22/May/2020:07:02:18 +0100] "GET /login?username=admin&pin=0004 HTTP/1.1" 200 11705
"http://www.example.com/login.php"
```

Which of the following password attacks is taking place?

- A. Dictionary
- B. Brute-force
- C. Rainbow table
- D. Spraying

**Answer: D**

**Explanation:**

Spraying is a password attack that involves trying a few common passwords against a large number of usernames. Spraying is different from brute-force attacks, which try many possible passwords against one username, or dictionary attacks, which try a list of words from a dictionary file against one username. Spraying is often used when the web application has a lockout policy that prevents multiple failed login attempts for the same username. Spraying can be detected by looking for patterns of failed login attempts from the same source IP address with different usernames and the same or similar passwords.



#### NEW QUESTION 273

- (Exam Topic 2)

A new security engineer has started hardening systems. One of the hardening techniques the engineer is using involves disabling remote logins to the NAS. Users are now reporting the inability to use SCP to transfer files to the NAS, even though the data is still viewable from the users' PCs. Which of the following is the MOST likely cause of this issue?

- A. TFTP was disabled on the local hosts.
- B. SSH was turned off instead of modifying the configuration file.
- C. Remote login was disabled in the networkd.conf instead of using the ssh
- D. conf.
- E. Network services are no longer running on the NAS

**Answer:** B

#### Explanation:

SSH is used to securely transfer files to the remote server and is required for SCP to work. Disabling SSH will prevent users from being able to use SCP to transfer files to the server. To enable SSH, the security engineer should modify the SSH configuration file (sshd.conf) and make sure that SSH is enabled. For more information on hardening systems and the security techniques that can be used, refer to the CompTIA Security+ SY0-601 Official Text Book and Resources.

#### NEW QUESTION 274

- (Exam Topic 2)

A malicious actor recently penetrated a company's network and moved laterally to the data center. Upon investigation, a forensics firm wants to know what was in the memory on the compromised server. Which of the following files should be given to the forensics firm?

- A. Security
- B. Application
- C. Dump
- D. Syslog

**Answer:** C

#### Explanation:

A dump file is a file that contains the contents of memory at a specific point in time. It can be used for debugging or forensic analysis of a system or an application. It can reveal what was in the memory on the compromised server, such as processes, variables, passwords, encryption keys, etc.

#### NEW QUESTION 275

- (Exam Topic 2)

An organization is outlining data stewardship roles and responsibilities. Which of the following employee roles would determine the purpose of data and how to process it?

- A. Data custodian
- B. Data controller
- C. Data protection officer
- D. Data processor

**Answer:** B

#### Explanation:

A data controller is an employee role that would determine the purpose of data and how to process it. A data controller is a person or entity that decides why and how personal data is collected, used, stored, shared, or deleted. A data controller has the responsibility to comply with data protection laws and regulations, such as the General Data Protection Regulation (GDPR), and to ensure the rights and privacy of data subjects.

References: <https://www.comptia.org/blog/what-is-a-data-controller>

<https://www.certblaster.com/wp-content/uploads/2020/11/CompTIA-Security-SY0-601-Exam-Objectives-1.0.pdf>

#### NEW QUESTION 277

- (Exam Topic 2)

Which of the following teams combines both offensive and defensive testing techniques to protect an organization's critical systems?

- A. Red
- B. Blue
- C. Purple
- D. Yellow

**Answer:** C

#### Explanation:

A purple team combines both offensive and defensive testing techniques to protect an organization's critical systems. A purple team is a type of cybersecurity team that consists of members from both the red team and the blue team. The red team performs simulated attacks on the organization's systems, while the blue team defends against them. The purple team facilitates the collaboration and communication between the red team and the blue team, and provides feedback and recommendations for improvement. A purple team can help the organization identify and remediate vulnerabilities, enhance security controls, and increase resilience.

References: <https://www.comptia.org/blog/red-team-blue-team-purple-team>

<https://www.certblaster.com/wp-content/uploads/2020/11/CompTIA-Security-SY0-601-Exam-Objectives-1.0.pdf>

#### NEW QUESTION 281

- (Exam Topic 2)

A user is trying unsuccessfully to send images via SMS. The user downloaded the images from a corporate email account on a work phone. Which of the following policies is preventing the user from completing this action?

- A. Application management
- B. Content management
- C. Containerization
- D. Full disk encryption

**Answer:** B

**Explanation:**

Content management is a policy that controls what types of data can be accessed, modified, shared, or transferred by users or applications. Content management can prevent data leakage or exfiltration by blocking or restricting certain actions, such as copying, printing, emailing, or sending data via SMS. If the user downloaded the images from a corporate email account on a work phone, the content management policy may prevent the user from sending the images via SMS to protect the confidentiality and integrity of the data.

References: 1

CompTIA Security+ Certification Exam Objectives, page 10, Domain 2.0: Architecture and Design, Objective 2.4: Explain the importance of embedded and specialized systems security 2

CompTIA

Security+ Certification Exam Objectives, page 12, Domain 3.0: Implementation, Objective 3.1: Implement secure network architecture concepts 3 <https://www.comptia.org/blog/what-is-data-loss-prevention>

**NEW QUESTION 284**

- (Exam Topic 2)

Which of the following would help ensure a security analyst is able to accurately measure the overall risk to an organization when a new vulnerability is disclosed?

- A. A full inventory of all hardware and software
- B. Documentation of system classifications
- C. A list of system owners and their departments
- D. Third-party risk assessment documentation

**Answer:** A

**Explanation:**

A full inventory of all hardware and software would help ensure a security analyst is able to accurately measure the overall risk to an organization when a new vulnerability is disclosed, as it would allow the analyst to identify which systems and applications are affected by the vulnerability and prioritize the remediation efforts accordingly. A full inventory would also help the analyst to determine the impact and likelihood of a successful exploit, as well as the potential loss of confidentiality, integrity and availability of the data and services. References:

> <https://www.professormesser.com/security-plus/sy0-601/sy0-601-video/risk-analysis/>

> <https://www.comptia.org/landing/securityplus/index.html>

> <https://www.comptia.org/blog/complete-guide-to-risk-management>

**NEW QUESTION 286**

- (Exam Topic 2)

A security operations technician is searching the log named /var/messages for any events that were associated with a workstation with the IP address 10.1.1.1. Which of the following would provide this information?

- A. `cat /var/messages | grep 10.1.1.1`
- B. `grep 10.1.1.1 | cat /var/messages`
- C. `grep /var/messages | cat 10.1.1.1`
- D. `cat 10.1.1.1 | grep /var/messages`

**Answer:** A

**Explanation:**

the cat command reads the file and streams its content to standard output. The | symbol connects the output of the left command with the input of the right command. The grep command returns all lines that match the regex. The cut command splits each line into fields based on a delimiter and extracts a specific field.

**NEW QUESTION 288**

- (Exam Topic 2)

Developers are writing code and merging it into shared repositories several times a day, where it is tested automatically. Which of the following concepts does this best represent?

- A. Functional testing
- B. Stored procedures
- C. Elasticity
- D. Continuous Integration

**Answer:** D

**Explanation:**

Continuous Integration is the concept that best represents developers writing code and merging it into shared repositories several times a day, where it is tested automatically. Continuous Integration is a software development practice that involves integrating code changes from multiple developers into a shared repository frequently and running automated tests to ensure quality and functionality. Continuous Integration can help to detect and fix errors early, improve collaboration, reduce rework, and accelerate delivery. References: <https://www.comptia.org/blog/what-is-devops>

<https://www.certblaster.com/wp-content/uploads/2020/11/CompTIA-Security-SY0-601-Exam-Objectives-1.0.pdf>

**NEW QUESTION 293**

- (Exam Topic 2)

Which of the following is the correct order of evidence from most to least volatile in forensic analysis?

- A. Memory, disk, temporary filesystems, CPU cache
- B. CPU cache, memory, disk, temporary filesystems
- C. CPU cache, memory, temporary filesystems, disk
- D. CPU cache, temporary filesystems, memory, disk

**Answer: C**

**Explanation:**

The correct order of evidence from most to least volatile in forensic analysis is based on how quickly the evidence can be lost or altered if not collected or preserved properly. CPU cache is the most volatile type of evidence because it is stored in a small amount of memory on the processor and can be overwritten or erased very quickly. Memory is the next most volatile type of evidence because it is stored in RAM and can be lost when the system is powered off or rebooted. Temporary filesystems are less volatile than memory because they are stored on disk, but they can still be deleted or overwritten by other processes or users. Disk is the least volatile type of evidence because it is stored on permanent storage devices and can be recovered even after deletion or formatting, unless overwritten by new data. References:  
<https://www.comptia.org/blog/what-is-volatility-in-digital-forensics>

**NEW QUESTION 294**

- (Exam Topic 2)

A network engineer receives a call regarding multiple LAN-connected devices that are on the same switch. The devices have suddenly been experiencing speed and latency issues while connecting to network resources. The engineer enters the command show mac address-table and reviews the following output

VLAN	MAC	PORT
1	00-04-18-EB-14-30	Fa0/1
1	88-CD-34-19-E8-98	Fa0/2
1	40-11-08-87-10-13	Fa0/3
1	00-04-18-EB-14-30	Fa0/4
1	88-CD-34-00-15-F3	Fa0/5
1	FA-13-02-04-27-64	Fa0/6

Which of the following best describes the attack that is currently in progress?

- A. MAC flooding
- B. Evil twin
- C. ARP poisoning
- D. DHCP spoofing

**Answer: C**

**Explanation:**

This is an attempt to redirect traffic to an attacking host by sending an ARP packet that contains the forged address of the next hop router. The attacker tricks the victim into believing that it is the legitimate router by sending a spoofed ARP reply with its own MAC address. This causes the victim to send all its traffic to the attacker instead of the router. The attacker can then intercept, modify, or drop the packets as they please.

**NEW QUESTION 299**

- (Exam Topic 2)

An organization needs to implement more stringent controls over administrator/root credentials and service accounts. Requirements for the project include:

- \* Check-in/checkout of credentials
- \* The ability to use but not know the password
- \* Automated password changes
- \* Logging of access to credentials

Which of the following solutions would meet the requirements?

- A. OAuth 2.0
- B. Secure Enclave
- C. A privileged access management system
- D. An OpenID Connect authentication system

**Answer: C**

**Explanation:**

A privileged access management (PAM) system is a solution that helps protect organizations against cyberthreats by monitoring, detecting, and preventing unauthorized privileged access to critical resources<sup>12</sup>. A PAM system can meet the requirements of the project by providing features such as:

- Check-in/checkout of credentials: A PAM system can store and manage privileged credentials in a secure vault, and allow authorized users to check out credentials when needed and check them back in when done. This reduces the risk of credential theft, misuse, or sharin2g3.
- The ability to use but not know the password: A PAM system can enable users to access privileged accounts or resources without revealing the actual password, using methods such as password injection, session proxy, or single sign-on<sup>23</sup>. This prevents users from copying, changing, or sharing password<sup>2s</sup>.
- Automated password changes: A PAM system can automatically rotate and update passwords for privileged accounts according to predefined policies, such as frequency, complexity, and uniqueness<sup>23</sup>. This ensures that passwords are always strong and unpredictable, and reduces the risk of password reuse or compromise<sup>2</sup>.
- Logging of access to credentials: A PAM system can record and audit all activities related to privileged access, such as who accessed what credentials, when, why, and what they did with them<sup>23</sup>. This provides visibility and accountability for privileged access, and enables detection and investigation of anomalies or incidents<sup>2</sup>.

A PAM system is different from OAuth 2.0, which is an authorization framework that enables third-party applications to obtain limited access to an HTTP service on behalf of a resource owner<sup>4</sup>. OAuth 2.0 does not provide the same level of control and security over privileged access as a PAM system does.

A PAM system is also different from a secure enclave, which is a hardware-based security feature that creates an isolated execution environment within a processor to protect sensitive data from unauthorized access or modification<sup>5</sup>. A secure enclave does not provide the same functionality as a PAM system for managing privileged credentials and access.

A PAM system is also different from an OpenID Connect authentication system, which is an identity layer on top of OAuth 2.0 that enables users to verify their identity across multiple websites using a single login<sup>6</sup>. OpenID Connect does not provide the same scope and granularity as a PAM system for controlling and

monitoring privileged access.

#### NEW QUESTION 302

- (Exam Topic 2)

Unauthorized devices have been detected on the internal network. The devices' locations were traced to Ether ports located in conference rooms. Which of the following would be the best technical controls to implement to prevent these devices from accessing the internal network?

- A. NAC
- B. DLP
- C. IDS
- D. MFA

**Answer:** A

#### Explanation:

NAC stands for network access control, which is a security solution that enforces policies and controls on devices that attempt to access a network. NAC can help prevent unauthorized devices from accessing the internal network by verifying their identity, compliance, and security posture before granting them access. NAC can also monitor and restrict the activities of authorized devices based on predefined rules and roles.

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>  
<https://www.cisco.com/c/en/us/products/security/what-is-network-access-control-nac.html>

#### NEW QUESTION 304

- (Exam Topic 2)

A company is enhancing the security of the wireless network and needs to ensure only employees with a valid certificate can authenticate to the network. Which of the following should the company implement?

- A. PEAP
- B. PSK
- C. WPA3
- D. WPS

**Answer:** A

#### Explanation:

PEAP stands for Protected Extensible Authentication Protocol, which is a protocol that can provide secure authentication for wireless networks. PEAP can use certificates to authenticate the server and the client, or only the server. PEAP can also use other methods, such as passwords or tokens, to authenticate the client. PEAP can ensure only employees with a valid certificate can authenticate to the network.

#### NEW QUESTION 306

- (Exam Topic 2)

A security analyst discovers that a company's username and password database were posted on an internet forum. The usernames and passwords are stored in plaintext. Which of the following would mitigate the damage done by this type of data exfiltration in the future?

- A. Create DLP controls that prevent documents from leaving the network.
- B. Implement salting and hashing.
- C. Configure the web content filter to block access to the forum.
- D. Increase password complexity requirements.

**Answer:** B

#### Explanation:

Salting and hashing are techniques that can improve the security of passwords stored in a database by making them harder to crack or reverse-engineer by hackers who might access the database<sup>12</sup>.

Salting is the process of adding a unique, random string of characters known only to the site to each password before it is hashed<sup>2</sup>. Hashing is the process of converting a password into a fixed-length string of characters, which cannot be reversed<sup>3</sup>. Salting and hashing ensure that the encryption process results in a different hash value, even when two passwords are the same<sup>1</sup>. This makes it more difficult for an attacker to use pre-computed tables or dictionaries to guess the passwords, or to exploit duplicate hashes in the database<sup>4</sup>.

#### NEW QUESTION 309

- (Exam Topic 2)

An employee's company email is configured with conditional access and requires that MFA is enabled and used. An example of MFA is a phone call and:

- A. a push notification
- B. a password.
- C. an SMS message.
- D. an authentication application.

**Answer:** D

#### Explanation:

An authentication application can generate one-time passwords or QR codes that are time-based and unique to each user and device. It does not rely on network connectivity or SMS delivery, which can be intercepted or delayed. It also does not require the user to respond to a push notification, which can be accidentally approved or ignored.

#### NEW QUESTION 310

- (Exam Topic 2)

A security administrator suspects there may be unnecessary services running on a server. Which of the following tools will the administrator most likely use to

confirm the suspicions?

- A. Nmap
- B. Wireshark
- C. Autopsy
- D. DNSEnum

**Answer:** A

**Explanation:**

Nmap is a tool that is used to scan IP addresses and ports in a network and to detect installed applications. Nmap can help a security administrator determine the services running on a server by sending various packets to the target and analyzing the responses. Nmap can also perform various tasks such as OS detection, version detection, script scanning, firewall evasion, and vulnerability scanning.

References: <https://www.comptia.org/certifications/security#examdetails> <https://www.comptia.org/content/guides/comptia-security-sy0-601-exam-objectives>  
<https://nmap.org/>

**NEW QUESTION 313**

- (Exam Topic 2)

Which of the following Is the BEST reason to maintain a functional and effective asset management policy that aids in ensuring the security of an organization?

- A. To provide data to quantify risk based on the organization's systems
- B. To keep all software and hardware fully patched for known vulnerabilities
- C. To only allow approved, organization-owned devices onto the business network
- D. To standardize by selecting one laptop model for all users in the organization

**Answer:** A

**Explanation:**

An effective asset management policy helps an organization understand and manage the systems, hardware, and software it uses, and how they are used, including their vulnerabilities and risks. This information is crucial for accurately identifying and assessing risks to the organization, and making informed decisions about how to mitigate those risks. This is the best reason to maintain an effective asset management policy.

Reference: CompTIA Security+ Study Guide (SY0-601) 7th Edition by Emmett Dulaney, Chuck Easttom

**NEW QUESTION 315**

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