Vendor: CompTIA

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QUESTION 1
Which of the following BEST describes the offensive participants in a tabletop exercise?

A. Red team
B. Blue team
C. System administrators
D. Security analysts
E. Operations team

Correct Answer: A

QUESTION 2
A recent vulnerability scan found four vulnerabilities on an organization's public Internet-facing IP addresses. Prioritizing in order to reduce the risk of a breach to the organization, which of the following should be remediated FIRST?

A. A cipher that is known to be cryptographically weak.
B. A website using a self-signed SSL certificate.
C. A buffer overflow that allows remote code execution.
D. An HTTP response that reveals an internal IP address.

Correct Answer: C

QUESTION 3
A security analyst is reviewing the following log after enabling key-based authentication. Given the above information, which of the following steps should be performed NEXT to secure the system?

```
Dec 21 11:00:57 comptia sshd[5657]: Failed password for root from
95.58.255.62 port 38980 ssh2
Dec 21 20:08:26 comptia sshd[5768]: Failed password for root from
91.205.189.15 port 38156 ssh2
Dec 21 20:08:30 comptia sshd[5770]: Failed password for nobody from
91.205.189.15 port 38556 ssh2
Dec 21 20:08:34 comptia sshd[5772]: Failed password for invalid user
asterisk from 91.205.189.15 port 38864 ssh2
Dec 21 20:08:38 comptia sshd[5774]: Failed password for invalid user
sjobeck from 91.205.189.15 port 39157 ssh2
Dec 21 20:08:42 comptia sshd[5776]: Failed password for root from
91.205.189.15 port 39467 ssh2
```

A. Disable anonymous SSH logins.
B. Disable password authentication for SSH.
C. Disable SSHv1.
D. Disable remote root SSH logins.

Correct Answer: B

QUESTION 4
In order to meet regulatory compliance objectives for the storage of PHI, vulnerability scans must be conducted on a continuous basis. The last completed scan of the network returned 5,682 possible vulnerabilities. The Chief Information Officer (CIO) would like to establish a remediation plan to resolve all known issues. Which of the following is the BEST way to proceed?

A. Attempt to identify all false positives and exceptions, and then resolve all remaining items.
B. Hold off on additional scanning until the current list of vulnerabilities have been resolved.
C. Place assets that handle PHI in a sandbox environment, and then resolve all vulnerabilities.
D. Reduce the scan to items identified as critical in the asset inventory, and resolve these issues first.

Correct Answer: D

QUESTION 5
Which of the following items represents a document that includes detailed information on when an incident was detected, how impactful the incident was, and how it was remediated, in addition to incident response effectiveness and any identified gaps needing improvement?

A. Forensic analysis report
B. Chain of custody report
C. Trends analysis report
D. Lessons learned report

Correct Answer: A

QUESTION 6
A security analyst received a compromised workstation. The workstation's hard drive may contain evidence of criminal activities. Which of the following is the FIRST thing the analyst must do to ensure the integrity of the hard drive while performing the analysis?

A. Make a copy of the hard drive.
B. Use write blockers.
C. Runrm 璗command to create a hash.
D. Install it on a different machine and explore the content.

Correct Answer: B

QUESTION 7
A threat intelligence analyst who works for a technology firm received this report from a vendor. "There has been an intellectual property theft campaign executed against organizations in the technology industry. Indicators for this activity are unique to each intrusion. The information that appears to be targeted is R&D data. The data exfiltration appears to occur over months via uniform TTPs. Please execute a defensive operation regarding this attack vector." Which of the following combinations suggests how the threat should MOST likely be classified and the type of analysis that would be MOST helpful in protecting against this activity?

A. Polymorphic malware and secure code analysis
B. Insider threat and indicator analysis
C. APT and behavioral analysis

D. Ransomware and encryption

Correct Answer: B

QUESTION 8
A cybersecurity analyst has received a report that multiple systems are experiencing slowness as a result of a DDoS attack. Which of the following would be the BEST action for the cybersecurity analyst to perform?

A. Continue monitoring critical systems.
B. Shut down all server interfaces.
C. Inform management of the incident.
D. Inform users regarding the affected systems.

Correct Answer: C

QUESTION 9
A cybersecurity professional typed in a URL and discovered the admin panel for the e- commerce application is accessible over the open web with the default password. Which of the following is the MOST secure solution to remediate this vulnerability?

A. Rename the URL to a more obscure name, whitelist all corporate IP blocks, and require two-factor authentication.
B. Change the default password, whitelist specific source IP addresses, and require two- factor authentication.
C. Whitelist all corporate IP blocks, require an alphanumeric passphrase for the default password, and require two-factor authentication.
D. Change the username and default password, whitelist specific source IP addresses, and require two-factor authentication.

Correct Answer: D

QUESTION 10
After reviewing the following packet, a cybersecurity analyst has discovered an unauthorized service is running on a company's computer. Which of the following ACLs, if implemented, will prevent further access ONLY to the unauthorized service and will not impact other services?

```
16:26:42.943463 IP 192.168.1.10:25 > 10.38.219.20:3389 Flags
[P.], seq 1768:1901, ackl, win 511, options [nop,nop,TS val
271989777 ecr 475239494], length 133
```

A. DENY TCP ANY HOST 10.38.219.20 EQ 3389
B. DENY IP HOST 10.38.219.20 ANY EQ 25
C. DENY IP HOST192.168.1.10 HOST 10.38.219.20 EQ 3389
D. DENY TCP ANY HOST 192.168.1.10 EQ 25

Correct Answer: A

QUESTION 11
A security analyst is performing a forensic analysis on a machine that was the subject of some historic SIEM alerts. The analyst noticed some network connections utilizing SSL on non-common ports, copies of svchost.exe and cmd.exe in %TEMP% folder, and RDP files that had connected to external IPs. Which of the following threats has the security analyst uncovered?

A. DDoS
B. APT
C. Ransomware
D. Software vulnerability

Correct Answer: D

QUESTION 12
A cybersecurity analyst is reviewing the current BYOD security posture. The users must be able to synchronize their calendars, email, and contacts to a smartphone or other personal device. The recommendation must provide the most flexibility to users. Which of the following recommendations would meet both the mobile data protection efforts and the business requirements described in this scenario?

A. Develop a minimum security baseline while restricting the type of data that can be accessed.
B. Implement a single computer configured with USB access and monitored by sensors.
C. Deploy a kiosk for synchronizing while using an access list of approved users.
D. Implement a wireless network configured for mobile device access and monitored by sensors.

Correct Answer: D

QUESTION 13
A security analyst has created an image of a drive from an incident. Which of the following describes what the analyst should do NEXT?

A. The analyst should create a backup of the drive and then hash the drive.
B. The analyst should begin analyzing the image and begin to report findings.
C. The analyst should create a hash of the image and compare it to the original drive's hash.
D. The analyst should create a chain of custody document and notify stakeholders.

Correct Answer: C

QUESTION 14
An analyst was tasked with providing recommendations of technologies that are PKI X.509 compliant for a variety of secure functions. Which of the following technologies meet the compatibility requirement? (Select three.)

A. 3DES
B. AES
C. IDEA
D. PKCS
E. PGP
F. SSL/TLS
G. TEMPEST

Correct Answer: BDF

QUESTION 15
Which of the following best practices is used to identify areas in the network that may be vulnerable to penetration testing from known external sources?

A. Blue team training exercises
B. Technical control reviews
C. White team training exercises
D. Operational control reviews

Correct Answer: A

QUESTION 16
An incident response report indicates a virus was introduced through a remote host that was connected to corporate resources. A cybersecurity analyst has been asked for a recommendation to solve this issue. Which of the following should be applied?

A. MAC
B. TAP
C. NAC
D. ACL

Correct Answer: C

QUESTION 17
A reverse engineer was analyzing malware found on a retailer's network and found code extracting track data in memory. Which of the following threats did the engineer MOST likely uncover?

A. POS malware
B. Rootkit
C. Key logger
D. Ransomware

Correct Answer: A

QUESTION 18
A security analyst is adding input to the incident response communication plan. A company officer has suggested that if a data breach occurs, only affected parties should be notified to keep an incident from becoming a media headline. Which of the following should the analyst recommend to the company officer?

A. The first responder should contact law enforcement upon confirmation of a security incident in order for a forensics team to preserve chain of custody.
B. Guidance from laws and regulations should be considered when deciding who must be notified in order to avoid fines and judgements from non-compliance.
C. An externally hosted website should be prepared in advance to ensure that when an incident occurs victims have timely access to notifications from a non-compromised recourse.

D. The HR department should have information security personnel who are involved in the investigation of the incident sign non-disclosure agreements so the company cannot be held liable for customer data that might be viewed during an investigation.

Correct Answer: A

QUESTION 19
An analyst finds that unpatched servers have undetected vulnerabilities because the vulnerability scanner does not have the latest set of signatures. Management directed the security team to have personnel update the scanners with the latest signatures at least 24 hours before conducting any scans, but the outcome is unchanged. Which of the following is the BEST logical control to address the failure?

A. Configure a script to automatically update the scanning tool.
B. Manually validate that the existing update is being performed.
C. Test vulnerability remediation in a sandbox before deploying.
D. Configure vulnerability scans to run in credentialed mode.

Correct Answer: A

QUESTION 20
An alert has been distributed throughout the information security community regarding a critical Apache vulnerability. Which of the following courses of action would ONLY identify the known vulnerability?

A. Perform an unauthenticated vulnerability scan on all servers in the environment.
B. Perform a scan for the specific vulnerability on all web servers.
C. Perform a web vulnerability scan on all servers in the environment.
D. Perform an authenticated scan on all web servers in the environment.

Correct Answer: B