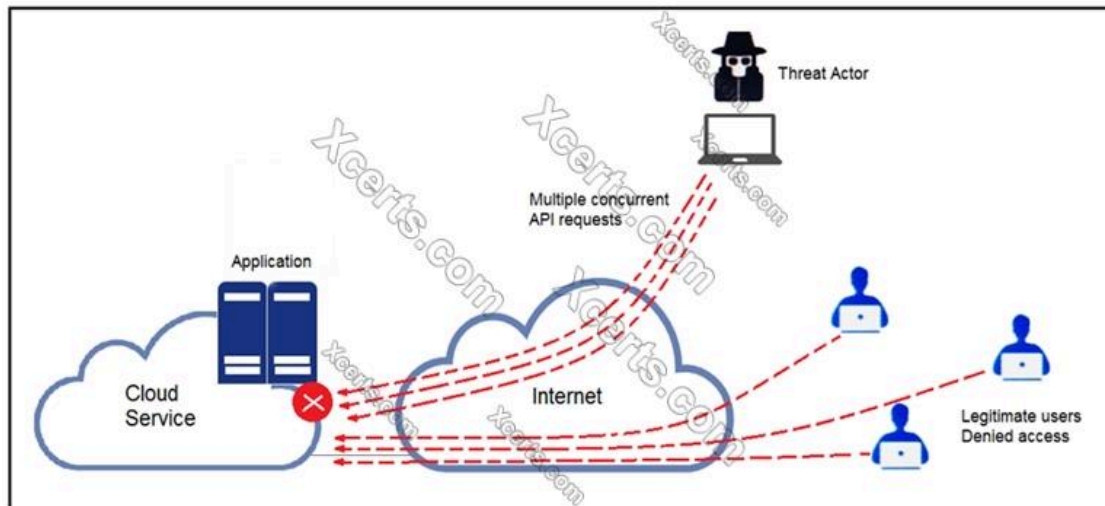


Performing CyberOps Using Core Security Technologies (CBRCOR)

1. Refer to the exhibit. A threat actor behind a single computer exploited a cloud-based application by sending multiple concurrent API requests. These requests made the application unresponsive. Which solution protects the application from being overloaded and ensures more equitable application access across the end-user community?



A. Limit the number of API calls that a single client is allowed to make

B. Add restrictions on the edge router on how often a single client can access the API

C. Reduce the amount of data that can be fetched from the total pool of active clients that call the API

D. Increase the application cache of the total pool of active clients that call the API

Answer(s): A

2. An organization lost connectivity to critical servers, and users cannot access business applications and internal websites. An engineer checks the network devices to investigate the outage and determines that all devices are functioning. Drag and drop the steps from the left into the sequence on the right to continue investigating this issue. Not all options are used.

Select and Place:

Exhibit A:

Answer Area

run show access-list	Step 1
run show config	Step 2
validate the file MD5	Step 3
generate the core file	Step 4
verify the image file hash	
check the memory logs	
verify the memory state	

Exhibit B:

Answer Area

run show access-list	run show config
run show config	check the memory logs
validate the file MD5	verify the memory state
generate the core file	run show access-list
verify the image file hash	
check the memory logs	
verify the memory state	

A. Please refer to Exhibit B for the answer.

Answer(s): A

3. A threat actor attacked an organization's Active Directory server from a remote location, and in a thirty-minute timeframe, stole the password for the administrator account and attempted to access 3 company servers. The threat actor successfully accessed the first server that contained sales data, but no files were downloaded. A second server was also accessed that contained marketing information and 11 files were downloaded. When the threat actor accessed the third server that contained corporate financial data, the session was disconnected, and the administrator's account was disabled. Which activity triggered the behavior analytics tool?

A. accessing the Active Directory server

B. accessing the server with financial data

C. accessing multiple servers

D. downloading more than 10 files

Answer(s): C

4. Refer to the exhibit. A security analyst needs to investigate a security incident involving several suspicious connections with a possible attacker. Which tool should the analyst use to identify the source IP of the offender?

TCP	192.168.1.8:54580	vk-in-f108:imaps	ESTABLISHED
TCP	192.168.1.8:54583	132.245.61.50:https	ESTABLISHED
TCP	192.168.1.8:54916	bay405-m:https	ESTABLISHED
TCP	192.168.1.8:54978	vu-in-f188:5228	ESTABLISHED
TCP	192.168.1.8:55094	72.21.194.109:https	ESTABLISHED
TCP	192.168.1.8:55401	wonderhowto:http	ESTABLISHED
TCP	192.168.1.8:55730	mia07s34-in-f78:https	TIME_WAIT
TCP	192.168.1.8:55824	a23-40-191-15:https	CLOSE_WAIT
TCP	192.168.1.8:55825	a23-40-191-15:https	CLOSE_WAIT
TCP	192.168.1.8:55846	mia07s25-in-f14:https	TIME_WAIT
TCP	192.168.1.8:55847	a184-51-150-89:http	CLOSE_WAIT
TCP	192.168.1.8:55853	157.55.56.154:40028	ESTABLISHED
TCP	192.168.1.8:55879	atl14s38-in-f4:https	ESTABLISHED
TCP	192.168.1.8:55884	208-46-117-174:https	ESTABLISHED
TCP	192.168.1.8:55893	vx-in-f95:https	TIME_WAIT
TCP	192.168.1.8:55947	stackoverflow:https	ESTABLISHED
TCP	192.168.1.8:55966	stackoverflow:https	ESTABLISHED
TCP	192.168.1.8:55970	mia07s34-in-f78:https	TIME_WAIT
TCP	192.168.1.8:55972	191.238.241.80:https	TIME_WAIT
TCP	192.168.1.8:55976	54.239.26.242:https	ESTABLISHED
TCP	192.168.1.8:55979	mia07s35-in-f14:https	ESTABLISHED
TCP	192.168.1.8:55986	server11:https	TIME_WAIT
TCP	192.168.1.8:55988	104.16.118.182:http	ESTABLISHED

A. packet sniffer

B. malware analysis

C. SIEM

D. firewall manager

Answer(s): A

5. Refer to the exhibit. Cisco Advanced Malware Protection installed on an end-user desktop has automatically submitted a low prevalence file to the Threat Grid analysis engine for further analysis. What

should be concluded from this report?

Analysis Report

ID	28cbee15b1ea4c884edd8470d8205f4	Filename	fpzryrf.exe
OS	7601.1898.amd64fre.win7sp1_gdr.150316-1654	Magic Type	PE32 executable (GUI) Intel 80386, for MS Windows
Started	7/29/16 18:44:43	Analyzed As	exe
Ended	7/29/16 18:50:39	SHA256	e9ca08a3cc2f8c9748a9e9b304c9f5a16d830066e5467d3dd5927be36fec47da
Duration	0:05:56	SHA1	a2de85810fd5ebcf29c5da5dd29ce03470772ad
Sandbox	phl-work-02 (pilot-d)	MD5	dd07d778edf8d581ffaadb1610aaa008

Warnings

- Executable Failed Integrity Check

Behavioral Indicators

Indicator	Severity	Confidence
CTB Locker Detected	100	100
Generic Ransomware Detected	100	95
Excessive Suspicious Activity Detected	90	100
Process Modified a File in a System Directory	90	100
Large Amount of High Entropy Artifacts Written	100	80
Process Modified a File in the Program Files Directory	80	90
Decoy Document Detected	70	100
Process Modified an Executable File	60	100
Process Modified File in a User Directory	70	80
Windows Crash Tool Execution Detected	20	80
Hook Procedure Detected in Executable	35	40
Ransomware Queried Domain	25	25
Executable Imported the IsDebuggerPresent Symbol	20	20

A. The prioritized behavioral indicators of compromise do not justify the execution of the "ransomware" because the scores do not indicate the likelihood of malicious ransomware.

B. The prioritized behavioral indicators of compromise do not justify the execution of the "ransomware" because the scores are high and do not indicate the likelihood of malicious ransomware.

C. The prioritized behavioral indicators of compromise justify the execution of the "ransomware" because the scores are high and indicate the likelihood that malicious ransomware has been detected.

D. The prioritized behavioral indicators of compromise justify the execution of the "ransomware" because the scores are low and indicate the likelihood that malicious ransomware has been detected.

Answer(s): C

6. The physical security department received a report that an unauthorized person followed an authorized individual to enter a secured premise. The incident was documented and given to a security specialist to analyze. Which step should be taken at this stage?

A. Determine the assets to which the attacker has access

B. Identify assets the attacker handled or acquired

C. Change access controls to high risk assets in the enterprise

D. Identify movement of the attacker in the enterprise

Answer(s): D

7. A new malware variant is discovered hidden in pirated software that is distributed on the Internet. Executives have asked for an organizational risk assessment. The security officer is given a list of all assets. According to NIST, which two elements are missing to calculate the risk assessment? (Choose two.)

- A. incident response playbooks
- B. asset vulnerability assessment
- C. report of staff members with asset relations
- D. key assets and executives
- E. malware analysis report

Answer(s): B E

8. Refer to the exhibit. At which stage of the threat kill chain is an attacker, based on these URIs of inbound web requests from known malicious Internet scanners?

URIs:

- /invoker/JMXInvokerServlet
- /CFIDE/adminapi
- /?a=<script>alert%28%22XSS%22%29%3B</script>&b=UNION+SELECT+ALL+FROM+information_schema+AND+%27+or+SLEEP%285%29+or+%27&c=../../../../etc/passwd

- A. exploitation
- B. actions on objectives
- C. delivery
- D. reconnaissance

Answer(s): C

9. Refer to the exhibit. How must these advisories be prioritized for handling?

<p>Vulnerability #1</p> <p>A vulnerability in the Command Line Interpreter (CLI) of ACME Super Firewall (all models) could allow an attacker to execute a command which would overflow a buffer in memory. In order to carry out this attack, the attacker needs to fulfill all of the following conditions:</p> <ul style="list-style-type: none">a) Be logged in to the device over telnet or SSH, or through the local consoleb) Be logged in as a high-privileges administrative user <p>In order to trigger the vulnerability, the attacker has to execute a command on the device and supply a specially crafted argument to such command. Once the command is executed, an internal stack-based buffer overflow will be triggered. This buffer overflow may lead to code execution within the process space of the CLI parser, or may crash the device.</p> <p>All software versions are affected Fixes are available now There are no workarounds or mitigations</p>	<p>Vulnerability #2</p> <p>A vulnerability in the web-based management interface of ACME Big Router models 1010 and 1020 could allow an attacker to bypass authorization checks and then access sensitive information on the device, modify the device's configuration, impact the availability of the system, create administrative and regular level users on the device. In order to exploit this vulnerability, the attacker needs to:</p> <ul style="list-style-type: none">a) Be able to reach port 80/tcp on an affected deviceb) The web-based management interface needs to be enabled on the device <p>The attacker would then need to send a specially formed request to the web-based management interface of an affected system. The attacker does not need to log-in to the device to launch the attack.</p> <p>All software versions are affected There are no fixes available now Customers can disable the web-based management interface to prevent exploitation. Customers will still be able to manage and monitor the device by using the Command Line Interface (CLI), but with reduced capabilities for monitoring.</p>
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A. The highest priority for handling depends on the type of institution deploying the devices

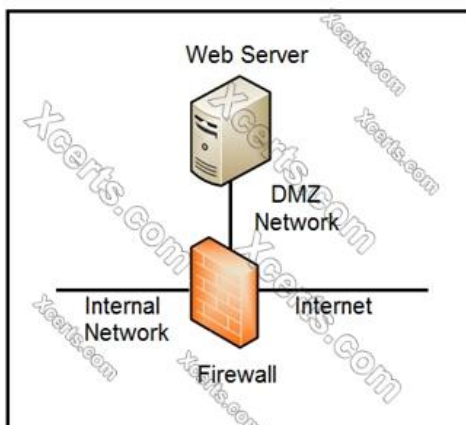
B. Vulnerability #2 is the highest priority for every type of institution

C. Vulnerability #1 and vulnerability #2 have the same priority

D. Vulnerability #1 is the highest priority for every type of institution

Answer(s): D

10. Refer to the exhibit. Which two steps mitigate attacks on the webserver from the Internet? (Choose two.)



A. Create an ACL on the firewall to allow only TLS 1.3

B. Implement a proxy server in the DMZ network

C. Create an ACL on the firewall to allow only external connections

D. Move the webserver to the internal network

E. Move the webserver to the external network

Answer(s): B D

11. Drag and drop the phases to evaluate the security posture of an asset from the left onto the activity that happens during the phases on the right.

Select and Place:

Exhibit A:

Answer Area

vulnerability assessment	gathering information on a target for future use
persistence	probing the target to discover operating system details
exploit	confirming the existence of known vulnerabilities in the target system
cover tracks	using previously identified vulnerabilities to gain access to the target system
reconnaissance	inserting backdoor access or covert channels to ensure access to the target system
enumeration	erasing traces of actions in audit logs and registry entries

Exhibit B:

Answer Area

vulnerability assessment	persistence
persistence	reconnaissance
exploit	vulnerability assessment
cover tracks	exploit
reconnaissance	enumeration
enumeration	cover tracks

A. Please refer to Exhibit B for the answer.

Answer(s): A

12. According to GDPR, what should be done with data to ensure its confidentiality, integrity, and availability?

A. Perform a vulnerability assessment

B. Conduct a data protection impact assessment

C. Conduct penetration testing

D. Perform awareness testing

Answer(s): B

13. A payroll administrator noticed unexpected changes within a piece of software and reported the incident to the incident response team. Which actions should be taken at this step in the incident response workflow?

A. Classify the criticality of the information, research the attacker's motives, and identify missing patches

B. Determine the damage to the business, extract reports, and save evidence according to a chain of custody

C. Classify the attack vector, understand the scope of the event, and identify the vulnerabilities being exploited

D. Determine the attack surface, evaluate the risks involved, and communicate the incident according to the escalation plan

Answer(s): B

14. A company recently completed an internal audit and discovered that there is CSRF vulnerability in 20 of its hosted applications. Based on the audit, which recommendation should an engineer make for patching?

A. Identify the business applications running on the assets

B. Update software to patch third-party software

C. Validate CSRF by executing exploits within Metasploit

D. Fix applications according to the risk scores

Answer(s): D

15. An engineer is analyzing a possible compromise that happened a week ago when the company database servers unexpectedly went down. The analysis reveals that attackers tampered with Microsoft SQL Server Resolution Protocol and launched a DDoS attack. The engineer must act quickly to ensure that all systems are protected. Which two tools should be used to detect and mitigate this type of future attack? (Choose two.)

A. firewall

B. Wireshark

C. autopsy

D. SHA512

E. IPS

Answer(s): A B

16. A European-based advertisement company collects tracking information from partner websites and stores it on a local server to provide tailored ads. Which standard must the company follow to safeguard the resting data?

A. HIPAA

B. PCI-DSS

C. Sarbanes-Oxley

D. GDPR

Answer(s): D

17. An organization had a breach due to a phishing attack. An engineer leads a team through the recovery phase of the incident response process. Which action should be taken during this phase?

A. Host a discovery meeting and define configuration and policy updates

B. Update the IDS/IPS signatures and reimage the affected hosts

C. Identify the systems that have been affected and tools used to detect the attack

D. Identify the traffic with data capture using Wireshark and review email filters

Answer(s): C

18. An engineer is going through vulnerability triage with company management because of a recent malware outbreak from which 21 affected assets need to be patched or remediated. Management decides not to prioritize fixing the assets and accepts the vulnerabilities. What is the next step the engineer should take?

A. Investigate the vulnerability to prevent further spread

B. Acknowledge the vulnerabilities and document the risk

C. Apply vendor patches or available hot fixes

D. Isolate the assets affected in a separate network

Answer(s): D

19. The incident response team receives information about the abnormal behavior of a host. A malicious file is found being executed from an external USB flash drive. The team collects and documents all the necessary evidence from the computing resource. What is the next step?

A. Conduct a risk assessment of systems and applications

B. Isolate the infected host from the rest of the subnet

C. Install malware prevention software on the host

D. Analyze network traffic on the host's subnet

Answer(s): B

20. An engineer notices that unauthorized software was installed on the network and discovers that it was installed by a dormant user account. The engineer suspects an escalation of privilege attack and responds to the incident. Drag and drop the activities from the left into the order for the response on the right.

Select and Place:

Exhibit A:

Answer Area

Identify systems to be taken offline	Step 1
Conduct content scans	Step 2
Collect log data	Step 3
Request system patch	Step 4
Reimage	Step 5

Exhibit B:

Answer Area

Identify systems to be taken offline	Conduct content scans
Conduct content scans	Collect log data
Collect log data	Identify systems to be taken offline
Request system patch	Reimage
Reimage	Request system patch

A. Please refer to Exhibit B for the answer.

Answer(s): A
