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Conducting Forensic Analysis and Incident Response Using Cisco CyberOps Technologies (CBRFIR)

Cisco 300-215

Version Demo

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QUESTION NO: 1

An incident response team is recommending changes after analyzing a recent compromise in which:

- a large number of events and logs were involved;
- team members were not able to identify the anomalous behavior and escalate it in a timely manner;
- several network systems were affected as a result of the latency in detection;
- security engineers were able to mitigate the threat and bring systems back to a stable state; and
- the issue reoccurred shortly after and systems became unstable again because the correct information was not gathered during the initial identification phase.

Which two recommendations should be made for improving the incident response process? (Choose two.)

A. Formalize reporting requirements and responsibilities to update management and internal stakeholders throughout the incident-handling process effectively.

B. Improve the mitigation phase to ensure causes can be quickly identified, and systems returned to a functioning state.

C. Implement an automated operation to pull systems events/logs and bring them into an organizational context.

D. Allocate additional resources for the containment phase to stabilize systems in a timely manner and reduce an attack's breadth.

E. Modify the incident handling playbook and checklist to ensure alignment and agreement on roles, responsibilities, and steps before an incident occurs.

ANSWER: C E

QUESTION NO: 2

Metadata	
Drive type	Fixed (Hard disk)
Drive serial number	1CBDB2C4
Full path	C:\Windows\System32\WIndowsPowerShell\v1.0\powershell.exe
NetBIOS name	user-pc
Lnk file name	ds7002.pdf
Relative path	..\..\..\..\..\..\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
Arguments	-noni –ep bypass $zk = 'JHB0Z3Q9MHgwMDA1ZTJiZTskdmNxPTB4MDAwNjlzYjY7.
Target file size (bytes)	452608
Droid volume	c59b0b22-7202-4410-b323-894349c1d75b
Birth droid volume	c59b0b22-7202-4410-b323-894349c1d75b
Droid file	bf069f66-8be6-11e6-b3d9-0800279224e5
Birth droid file	bf069f66-8be6-11e6-b3d9-0800279224e5
File attribute	The file or directory is an archive file
Target file access time (UTC)	13.07.2009 23:32:37
Target file creation time (UTC)	13.07.2009 23:32:37
Target file modification time (UTC)	14.07.2009 1:14:24
Header flags	HasTargetIdList, HasLinkInfo, HasName, HasRelativePath, HasArguments, HasIcc
MAC vendor	Cadmus Computer Systems
Target path	My Computer\C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
Target MFT entry number	0x7E21

Refer to the exhibit. An engineer is analyzing a .LNK (shortcut) file recently received as an email attachment and blocked by email security as suspicious. What is the next step an engineer should take?

A. Delete the suspicious email with the attachment as the file is a shortcut extension and does not represent any threat.

B. Upload the file to a virus checking engine to compare with well-known viruses as the file is a virus disguised as a legitimate extension.

C. Quarantine the file within the endpoint antivirus solution as the file is a ransomware which will encrypt the documents of a victim.

D. Open the file in a sandbox environment for further behavioral analysis as the file contains a malicious script that runs on execution.

ANSWER: D

QUESTION NO: 3

service June 3, 2020 at 5:33 PM

Credit Card Refund #186913

To: [removed]

Received: from ([202.142.155.218]) by [removed] for [removed]; Wed, 03 Jub 2020 15:33:03 +0000 (UTC)

Received: from [53.183.109.56] (helo=WEEOWED.lu) by with esmtpa (Exim 4.85) (envelope-from) id 08A56E158516 for [removed]; Wed, 3 Jun 2020 20:33:05 +0500

Received: from [54.198.90.184] (account cobblergs8@o4.e.notification.intuit.com HELO RUFINEF.GYPUBOT.mcg) by (Postfix) with ESMTPA id mXDmHhpAEoD7.233 for [removed]; Wed, 3 Jun 2020 20:33:05 +0500

Content-Type: multipart/mixed; boundary="--_Part_6483125_09335162.9435849616646"

1

Cash Refund

Date	**6/03/2020**
Refund #	**186913**
Payment Method	**Website Payment**
Check #	**3000679700**
Project	
Department	
Phone Number	
Shipping Method	**UPS 2nd Day Air®**
Credit Card #	**********
Transaction Next Approver	

Item	Quantity	Description	Options	Rate	Amount	Gross Amt	Tax Amount	Tax Details	Reference
3795326-44	1	2020		1,397.11	1,397.11	1,397.11			97810761_1
				Subtotal	1,397.11				
				Shipping Cost (UPS 2nd Day Air®)	0.00				
				Total	$1,397.11				

**********CREDIT WILL BE ISSUED TO YOUR CREDIT CARD USED FOR ORIGINAL PURCHASE**********

Card_Refund_186913.xlsm

Refer to the exhibit. Which element in this email is an indicator of attack?

A. IP Address: 202.142.155.218

B. content-Type: multipart/mixed

C. attachment: “Card-Refund”

D. subject: “Service Credit Card”

ANSWER: C

QUESTION NO: 4

Which scripts will search a log file for the IP address of 192.168.100.100 and create an output file named parsed_host.log while printing results to the console?

A.

```
import os
import re
line_regex = re.compile(r".*fwd=\"192.168.100.100\". *$")
output_filename = os.path.normpath( "output/parsed_host.log")
with open(output_filename, "w") as out_file:
        out_file.write("")
with open(output_filename, "a") as out_file:
        with open( "parsed_host.log", "r") as in_file"
          for line in in_file:
            if (line_regex.search(line)):
              print line
              out_file.write(line)
```

B.
```
import os
import re
line_regex = re.compile(r".*fwd=\"192.168.100.100\". *$")
output_filename = os.path.normpath( "output/parsed_hosts.log")
with open(output_filename, "w") as out_file:
        out_file.write("")
with open(output_filename, "a") as out_file:
        with open( "test_log.log", "r") as in_file"
          for line in in_file:
            if (line_regex.search(line)):
              print line
              out_file.write(line)
```

C.
```
import os
import re
line_regex = re.compile(r".*fwd=\"192.168.100.10\". *$")
output_filename = os.path.normpath( "output/parsed_host.log")
with open(output_filename, "w") as out_file:
        out_file.write("")
with open(output_filename, "a") as out_file:
        with open( "parsed_host.log", "r") as in_file"
          for line in in_file:
            if (line_regex.search(line)):
              print line
              out_file.write(line)
```

D.
```
import os
import re
line_regex = re.compile(r".*fwd=\"192.168.100.100\". *$")
output_filename = os.path.normpath( "output/parsed_host.log")
with open(output_filename, "w") as out_file:
        out_file.write("")
with open(output_filename, "a") as out_file:
        with open( "test_log.log", "r") as in_file"
          for line in in_file:
            if (line_regex.search(line)):
              print line
              out_file.write(line)
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: A

QUESTION NO: 5

A security team received an alert of suspicious activity on a user's Internet browser. The user's anti-virus software indicated that the file attempted to create a fake recycle bin folder and connect to an external IP address. Which two actions should be taken by the security analyst with the executable file for further analysis? (Choose two.)

A. Evaluate the process activity in Cisco Umbrella.

B. Analyze the TCP/IP Streams in Cisco Secure Malware Analytics (Threat Grid).

C. Evaluate the behavioral indicators in Cisco Secure Malware Analytics (Threat Grid).

D. Analyze the Magic File type in Cisco Umbrella.

E. Network Exit Localization in Cisco Secure Malware Analytics (Threat Grid).

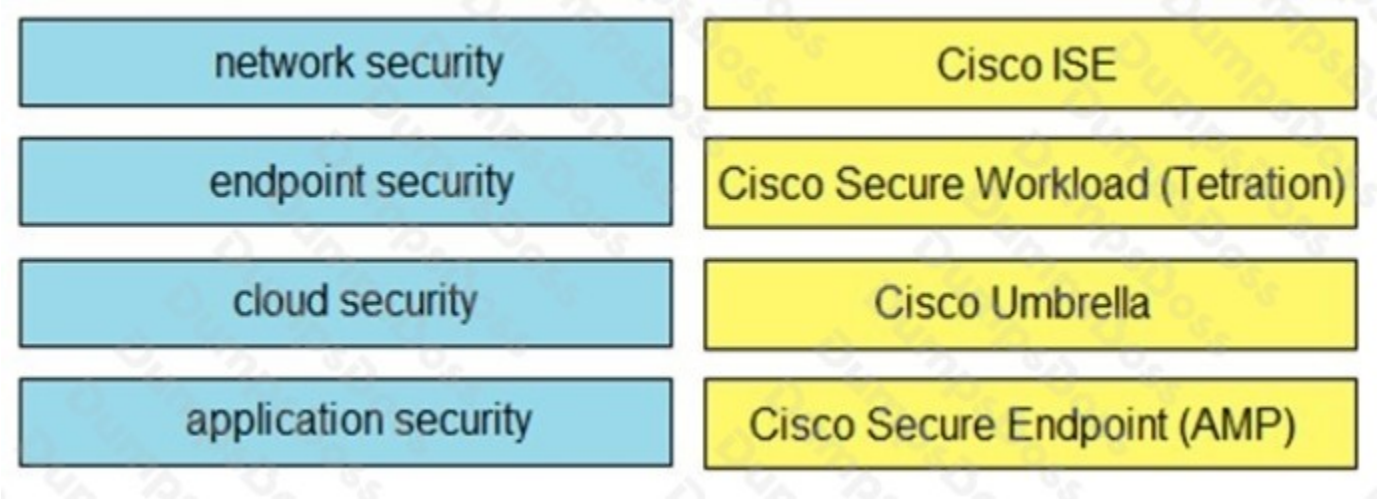
ANSWER: B C

QUESTION NO: 6 - (DRAG DROP)

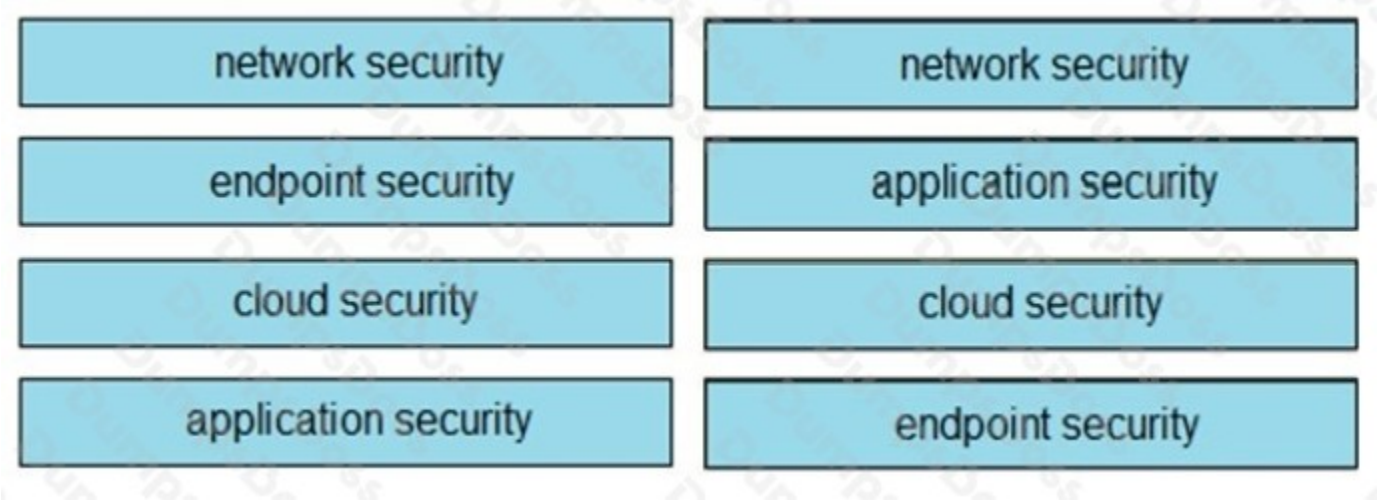
DRAG DROP

Drag and drop the capabilities on the left onto the Cisco security solutions on the right.

Select and Place:

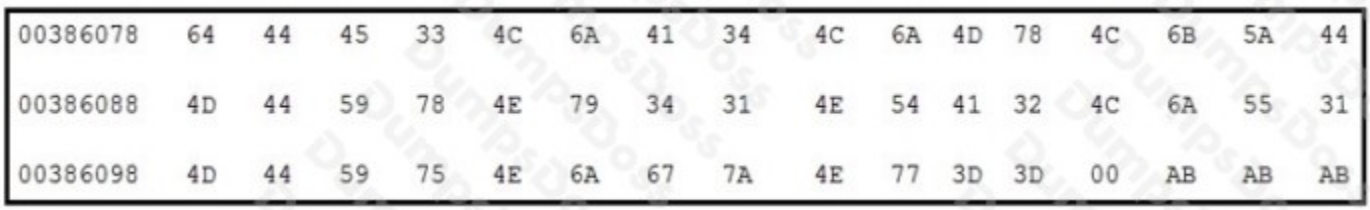


ANSWER:



Explanation:

QUESTION NO: 7



00386078	64	44	45	33	4C	6A	41	34	4C	6A	4D	78	4C	6B	5A	44
00386088	4D	44	59	78	4E	79	34	31	4E	54	41	32	4C	6A	55	31
00386098	4D	44	59	75	4E	6A	67	7A	4E	77	3D	3D	00	AB	AB	AB

Refer to the exhibit. Which encoding technique is represented by this HEX string?

A. Unicode

B. Binary

C. Base64

D. Charcode

ANSWER: B

Explanation:

Reference: https://www.suse.com/c/making-sense-hexdump/

QUESTION NO: 8

A network host is infected with malware by an attacker who uses the host to make calls for files and shuttle traffic to bots. This attack went undetected and resulted in a significant loss. The organization wants to ensure this does not happen in the future and needs a security solution that will generate alerts when command and control communication from an infected device is detected. Which network security solution should be recommended?

A. Cisco Secure Firewall ASA

B. Cisco Secure Firewall Threat Defense (Firepower)

C. Cisco Secure Email Gateway (ESA)

D. Cisco Secure Web Appliance (WSA)

ANSWER: B

QUESTION NO: 9

Refer to the exhibit. According to the Wireshark output, what are two indicators of compromise for detecting an Emotet malware download? (Choose two.)

A. Domain name:iraniansk.com

B. Server: nginx

C. Hash value: 5f31ab113af08=1597090577

D. filename= “Fy.exe”

E. Content-Type: application/octet-stream

ANSWER: C E

QUESTION NO: 10

A security team detected an above-average amount of inbound tcp/135 connection attempts from unidentified senders. The security team is responding based on their incident response playbook. Which two elements are part of the eradication phase for this incident? (Choose two.)

A. anti-malware software

B. data and workload isolation

C. centralized user management

D. intrusion prevention system

E. enterprise block listing solution

ANSWER: C D