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Exam : FCNSP.V5

**Title : Fortinet Certified Network
Security Professional
(FCNSP.v5)**

Version : Demo

1.FSSO provides a single sign on solution to authenticate users transparently to a FortiGate unit using credentials stored in Windows Active Directory.

Which of the following statements are correct regarding FSSO in a Windows domain environment when NTLM and Polling Mode are not used? (Select all that apply.)

- A. An FSSO Collector Agent must be installed on every domain controller.
- B. An FSSO Domain Controller Agent must be installed on every domain controller.
- C. The FSSO Domain Controller Agent will regularly update user logon information on the FortiGate unit.
- D. The FSSO Collector Agent will retrieve user information from the Domain Controller Agent and will send the user logon information to the FortiGate unit.
- E. For non-domain computers, the only way to allow FSSO authentication is to install an FSSO client.

Answer: B, D

2.Which of the following represents the correct order of criteria used for the selection of a Master unit within a FortiGate High Availability (HA) cluster when master override is disabled?

- A. 1. port monitor, 2. unit priority, 3. up time, 4. serial number
- B. 1. port monitor, 2. up time, 3. unit priority, 4. serial number
- C. 1. unit priority, 2. up time, 3. port monitor, 4. serial number
- D. 1. up time, 2. unit priority, 3. port monitor, 4. serial number

Answer: B

3.In a High Availability cluster operating in Active-Active mode, which of the following correctly describes the path taken by the SYN packet of an HTTP session that is offloaded to a subordinate unit?

- A. Request: Internal Host; Master FortiGate; Slave FortiGate; Internet; Web Server
- B. Request: Internal Host; Master FortiGate; Slave FortiGate; Master FortiGate; Internet; Web Server
- C. Request: Internal Host; Slave FortiGate; Internet; Web Server
- D. Request: Internal Host; Slave FortiGate; Master FortiGate; Internet; Web Server

Answer: A

4.Which of the following statements are correct regarding virtual domains (VDOMs)? (Select all that apply.)

- A. VDOMs divide a single FortiGate unit into two or more virtual units that function as multiple, independent units.
- B. A management VDOM handles SNMP, logging, alert email, and FDN-based updates.
- C. VDOMs share firmware versions, as well as antivirus and IPS databases.
- D. Only administrative users with a 'super_admin' profile will be able to enter multiple VDOMs to make configuration changes.

Answer: A, B, C

5.What advantages are there in using a hub-and-spoke IPSec VPN configuration instead of a fully-meshed set of IPSec tunnels? (Select all that apply.)

- A. Using a hub and spoke topology is required to achieve full redundancy.
- B. Using a hub and spoke topology simplifies configuration because fewer tunnels are required.
- C. Using a hub and spoke topology provides stronger encryption.
- D. The routing at a spoke is simpler, compared to a meshed node.

Answer: B, D

6.Data Leak Prevention archiving gives the ability to store files and message data onto a FortiAnalyzer unit for which of the following types of network traffic? (Select all that apply.)

- A. SNMP
- B. IPSec
- C. SMTP
- D. POP3
- E. HTTP

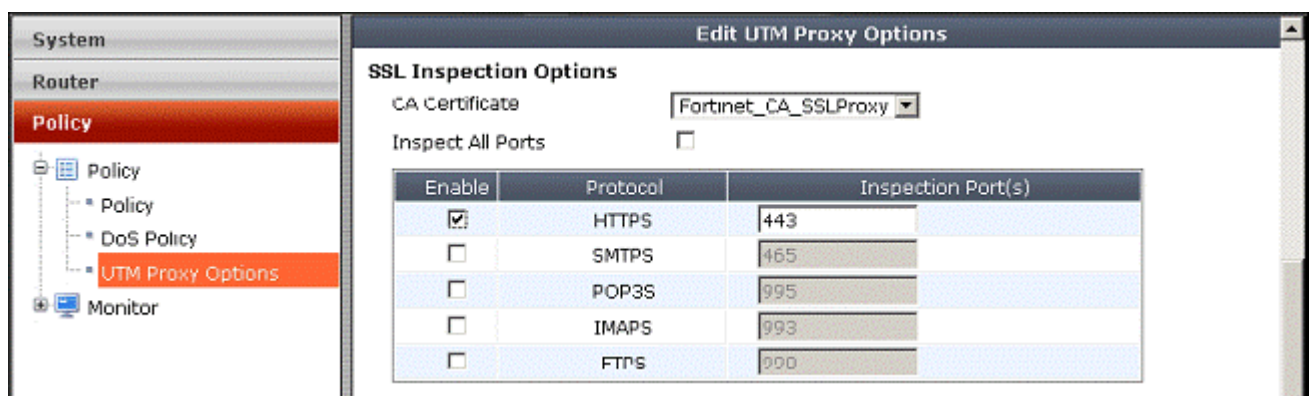
Answer: C, D, E

7.Which of the following statements are correct regarding Application Control?

- A. Application Control is based on the IPS engine.
- B. Application Control is based on the AV engine.
- C. Application Control can be applied to SSL encrypted traffic.
- D. Application Control cannot be applied to SSL encrypted traffic.

Answer: A, C

8.Examine the exhibit shown below then answer the question that follows it.



Within the UTM Proxy Options, the CA certificate Fortinet_CA_SSLProxy defines which of the following:

- A. FortiGate unit's encryption certificate used by the SSL proxy.
- B. FortiGate unit's signing certificate used by the SSL proxy.
- C. FortiGuard's signing certificate used by the SSL proxy.
- D. FortiGuard's encryption certificate used by the SSL proxy.

Answer: A

9.For Data Leak Prevention, which of the following describes the difference between the block and quarantine actions?

- A. A block action prevents the transaction. A quarantine action blocks all future transactions, regardless of the protocol.
- B. A block action prevents the transaction. A quarantine action archives the data.
- C. A block action has a finite duration. A quarantine action must be removed by an administrator.
- D. A block action is used for known users. A quarantine action is used for unknown users.

Answer: A

10. How can DLP file filters be configured to detect Office 2010 files? (Select all that apply.)

- A. File TypeE. Microsoft Office(msoffice)
- B. File TypeE. Archive(zip)
- C. File TypeE. Unknown Filetype(unknown)
- D. File NameE. "*.ppt", "*.doc", "*.xls"
- E. File NameE. "*.pptx", "*.docx", "*.xlsx"

Answer: B, E

11. Examine the Exhibits shown below, then answer the question that follows.

Review the following DLP Sensor (Exhibit 1):

Seq #	Type	Action	Services	Archive
1	File Type	Log Only	SMTP, POP3, IMAP, HTTP, NNTP	Disable
2	File Type	Quarantine Interface	SMTP, POP3, IMAP, HTTP, NNTP	Disable
3	File Type	Block	SMTP, POP3, IMAP, HTTP, NNTP	Disable

Review the following File Filter list for rule #1 (Exhibit 2):

Filter Type	Filter
File Type	Audio (mp3)
File Type	Audio (wma)
File Type	Audio (wav)

Review the following File Filter list for rule #2 (Exhibit 3):

Filter Type	Filter
File Name Pattern	*.exe

Review the following File Filter list for rule #3 (Exhibit 4):

Filter Type	Filter
File Type	Archive (arj)
File Type	Archive (bzip)
File Type	Archive (cab)
File Type	Archive (zip)

An MP3 file is renamed to 'workbook.exe' and put into a ZIP archive. It is then sent through the FortiGate device over HTTP. It is intercepted and processed by the configuration shown in the above Exhibits 1-4.

Assuming the file is not too large for the File scanning threshold, what action will the FortiGate unit take?

- A. The file will be detected by rule #1 as an 'Audio (mp3)', a log entry will be created and it will be allowed to pass through.
- B. The file will be detected by rule #2 as a "*.exe", a log entry will be created and the interface that received the traffic will be brought down.
- C. The file will be detected by rule #3 as an Archive(zip), blocked, and a log entry will be created.
- D. Nothing, the file will go undetected.

Answer: A

12. The eicar test virus is put into a zip archive, which is given the password of "Fortinet" in order to open the archive. Review the configuration in the exhibits shown below; then answer the question that follows.

Exhibit A – Antivirus Profile:

Inspection Mode ☐ Proxy ☒ Flow-based☐ Block Connections to Botnet Servers

Protocol	Virus Scan and Removal
Web	
HTTP	<input checked="" type="checkbox"/>
Email	
SMTP	<input type="checkbox"/>
POP3	<input type="checkbox"/>
IMAP	<input type="checkbox"/>
MAPI	<input type="checkbox"/>
File Transfer	
FTP	<input type="checkbox"/>
SMB	<input type="checkbox"/>
IM	
ICQ, Yahoo, MSN Messenger	<input type="checkbox"/>

Exhibit B – Non-default UTM Proxy Options Profile:

Protocol Port Mapping

Enable	Protocol	Inspection Port(s)	
<input checked="" type="checkbox"/>	HTTP	<input type="radio"/> Any <input checked="" type="radio"/> Specify	8080
<input checked="" type="checkbox"/>	SMTP	<input type="radio"/> Any <input checked="" type="radio"/> Specify	25
<input checked="" type="checkbox"/>	POP3	<input type="radio"/> Any <input checked="" type="radio"/> Specify	110
<input checked="" type="checkbox"/>	IMAP	<input type="radio"/> Any <input checked="" type="radio"/> Specify	143
<input checked="" type="checkbox"/>	FTP	<input type="radio"/> Any <input checked="" type="radio"/> Specify	21
<input checked="" type="checkbox"/>	NNTP	<input type="radio"/> Any <input checked="" type="radio"/> Specify	119
<input checked="" type="checkbox"/>	MAPI	135	
<input checked="" type="checkbox"/>	DNS	53	

Exhibit C – DLP Profile:

Create New Edit Filter Delete				
Seq #	Type	Action	Services	Archive
1	Encrypted	Block	POP3, HTTP	Disable
<input type="button" value="Apply"/>				

Which of one the following profiles could be enabled in order to prevent the file from passing through the FortiGate device over HTTP on the standard port for that protocol?

- A. Only Exhibit A
- B. Only Exhibit B
- C. Only Exhibit C with default UTM Proxy settings.
- D. All of the Exhibits (A, B and C)

E. Only Exhibit C with non-default UTM Proxy settings (Exhibit B).

Answer: C

13. With FSSO, a domain user could authenticate either against the domain controller running the Collector Agent and Domain Controller Agent, or a domain controller running only the Domain Controller Agent.

If you attempt to authenticate with the Secondary Domain Controller running only the Domain Controller Agent, which of the following statements are correct? (Select all that apply.)

- A. The login event is sent to the Collector Agent.
- B. The FortiGate unit receives the user information from the Domain Controller Agent of the Secondary Controller.
- C. The Collector Agent performs the DNS lookup for the authenticated client's IP address.
- D. The user cannot be authenticated with the FortiGate device in this manner because each Domain Controller Agent requires a dedicated Collector Agent.

Answer: A, C

14. Select the answer that describes what the CLI command `diag debug authd fsso list` is used for.

- A. Monitors communications between the FSSO Collector Agent and FortiGate unit.
- B. Displays which users are currently logged on using FSSO.
- C. Displays a listing of all connected FSSO Collector Agents.
- D. Lists all DC Agents installed on all Domain Controllers.

Answer: B

15. What are the requirements for a cluster to maintain TCP connections after device or link failover? (Select all that apply.)

- A. Enable session pick-up.
- B. Only applies to connections handled by a proxy.
- C. Only applies to UDP and ICMP connections.
- D. Connections must not be handled by a proxy.

Answer: A, D

16. Two devices are in an HA cluster, the device hostnames are STUDENT and REMOTE. Exhibit A shows the command output of 'diag sys session stat' for the STUDENT device. Exhibit B shows the command output of 'diag sys session stat' for the REMOTE device.

Exhibit A:

```

STUDENT # diagnose sys session stat
misc info:      session_count=166 setup_rate=68 exp_count=0 clash=0
                memory_tension_drop=0 ephemeral=0/57344 removeable=0  ha_scan=0
delete=0, flush=0, dev_down=0/0
TCP sessions:
    8 in ESTABLISHED state
    3 in SYN_SENT state
    1 in FIN_WAIT state
   139 in TIME_WAIT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000000
tcp reset stat:
    syncqf=0 acceptqf=0 no-listener=2 data=0 ses=0 ips=0
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

STUDENT # _

```

Exhibit B:

```

global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

REMOTE # diagnose sys session stat
misc info:      session_count=11 setup_rate=0 exp_count=0 clash=4
                memory_tension_drop=0 ephemeral=0/57344 removeable=0  ha_scan=0
delete=0, flush=0, dev_down=0/0
TCP sessions:
    2 in ESTABLISHED state
    1 in SYN_SENT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000000
tcp reset stat:
    syncqf=0 acceptqf=0 no-listener=7 data=0 ses=0 ips=0
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

REMOTE # _

```

Given the information provided in the exhibits, which of the following statements are correct? (Select all that apply.)

- A. STUDENT is likely to be the master device.
- B. Session-pickup is likely to be enabled.
- C. The cluster mode is definitely Active-Passive.

D. There is not enough information to determine the cluster mode.

Answer: A, D

17. Which of the following statements are correct about the HA diag command diagnose sys ha reset-uptime? (Select all that apply.)

A. The device this command is executed on is likely to switch from master to slave status if master override is disabled.

B. The device this command is executed on is likely to switch from master to slave status if master override is enabled.

C. This command has no impact on the HA algorithm.

D. This command resets the uptime variable used in the HA algorithm so it may cause a new master to become elected.

Answer: A, D

18. In HA, the option Reserve Management Port for Cluster Member is selected as shown in the Exhibit below.



The image shows a 'High Availability' configuration window. It has a title bar 'High Availability'. Below it, there are three settings: 'Mode' is set to 'Active-Passive' (indicated by a yellow box), 'Device Priority' is set to '200' (indicated by a yellow box), and 'Reserve Management Port for Cluster Member' is checked with a dropdown menu set to 'port7' (indicated by a yellow box).

Which of the following statements are correct regarding this setting? (Select all that apply.)

A. Interface settings on port7 will not be synchronized with other cluster members.

B. The IP address assigned to this interface must not overlap with the IP address subnet assigned to another interface.

C. Port7 appears in the routing table.

D. A gateway address may be configured for port7.

E. When connecting to port7 you always connect to the master device.

Answer: A, D

19. In HA, what is the effect of the Disconnect Cluster Member command as given in the Exhibit?



The image shows a 'Disconnect Cluster Member' dialog box. It has a title bar 'Disconnect Cluster Member'. Below it, there are three fields: 'Serial Number' is 'FGVM010000006268', 'Interface' is 'port3' (indicated by a yellow box), and 'IP/Netmask' is '10.0.1.251/24' (indicated by a yellow box). At the bottom, there are 'OK' and 'Cancel' buttons.

A. The HA mode changes to standalone.

B. Port3 is configured with an IP address for management access.

C. The Firewall rules are purged on the disconnected unit.

D. All other interface IP settings are maintained.

Answer: A, B

20. Two FortiGate devices fail to form an HA cluster, the device hostnames are STUDENT and REMOTE. Exhibit A shows the command output of 'show system ha' for the STUDENT device. Exhibit B shows the command output of 'show system ha' for the REMOTE device.

Exhibit A:

```
Max number of virtual domains: 10
Virtual domains status: 1 in NAT mode, 0 in TP mode
Virtual domain configuration: disable
FIPS-CC mode: disable
Current HA mode: a-p, master
Branch point: 128
Release Version Information: GA
System time: Thu Jan 24 08:34:19 2013

STUDENT #
STUDENT #
STUDENT #
STUDENT #
STUDENT #
STUDENT # show system ha
config system ha
    set mode a-p
    set password ENC 9FHCYw0JXK9z8w6QkUnUsREWBruUcMJ5NUVE3oU5otyn+4dsgx4CnU1GRJ8
McEECpiT3Z/3dCMluYIDgW2sE+1A1kHfAD0U/r5DkaqGnbj15XU/a
    set hbdev "port2" 50
    set override disable
    set priority 200
end

STUDENT # _
```

Exhibit B:

```
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

REMOTE # diagnose sys session stat
Misc info:      session_count=11 setup_rate=0 exp_count=0 clash=4
                memory_tension_drop=0 ephemeral=0/57344 removeable=0 ha_scan=0
delete=0, flush=0, dev_down=0/0
TCP sessions:
    2 in ESTABLISHED state
    1 in SYN_SENT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000000
tcp reset stat:
    syncqf=0 acceptqf=0 no-listener=7 data=0 ses=0 ips=0
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

REMOTE # _
```

Which one of the following is the most likely reason that the cluster fails to form?

- A. Password
- B. HA mode
- C. Hearbeat
- D. Override

Answer: B