

# Fortinet

## Exam Questions NSE7\_EFW-6.4

Fortinet NSE 7 - Enterprise Firewall 6.4



#### NEW QUESTION 1

View the exhibit, which contains the output of diagnose sys session stat, and then answer the question below.

Which statements are correct regarding the output shown? (Choose two.)

- A. There are 0 ephemeral sessions.
- B. All the sessions in the session table are TCP sessions.
- C. No sessions have been deleted because of memory pages exhaustion.
- D. There are 166 TCP sessions waiting to complete the three-way handshake.

**Answer:** AC

**Explanation:**

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD40578>

#### NEW QUESTION 2

Refer to the exhibit, which contains partial output from an IKE real-time debug.

Which two statements about this debug output are correct? (Choose two.)

- A. The remote gateway IP address is 10.0.0.1.
- B. The initiator provided remote as its IPsec peer ID.
- C. It shows a phase 1 negotiation.
- D. The negotiation is using AES128 encryption with CBC hash.

**Answer:** BC

#### NEW QUESTION 3

What is the purpose of an internal segmentation firewall (ISFW)?

- A. It inspects incoming traffic to protect services in the corporate DMZ.
- B. It is the first line of defense at the network perimeter.
- C. It splits the network into multiple security segments to minimize the impact of breaches.
- D. It is an all-in-one security appliance that is placed at remote sites to extend the enterprise network.

**Answer:** C

**Explanation:**

ISFW splits your network into multiple security segments. They serve as a breach containers from attacks that come from inside.

#### NEW QUESTION 4

Examine the following partial output from a sniffer command; then answer the question below.

What is the meaning of the packets dropped counter at the end of the sniffer?

- A. Number of packets that didn't match the sniffer filter.
- B. Number of total packets dropped by the FortiGate.
- C. Number of packets that matched the sniffer filter and were dropped by the FortiGate.

D. Number of packets that matched the sniffer filter but could not be captured by the sniffer.

**Answer:** D

**Explanation:**

<https://kb.fortinet.com/kb/documentLink.do?externalID=11655>

#### NEW QUESTION 5

View the exhibit, which contains the partial output of an IKE real time debug, and then answer the question below.

The administrator does not have access to the remote gateway. Based on the debug output, what configuration changes can the administrator make to the local gateway to resolve the phase 1 negotiation error?

- A. Change phase 1 encryption to AESCBC and authentication to SHA128.
- B. Change phase 1 encryption to 3DES and authentication to CBC.
- C. Change phase 1 encryption to AES128 and authentication to SHA512.
- D. Change phase 1 encryption to 3DES and authentication to SHA256.

**Answer:** B

#### NEW QUESTION 6

View the exhibit, which contains a partial web filter profile configuration, and then answer the question below.

Which action will FortiGate take if a user attempts to access [www.dropbox.com](https://www.dropbox.com), which is categorized as File Sharing and Storage?

- A. FortiGate will exempt the connection based on the Web Content Filter configuration.
- B. FortiGate will block the connection based on the URL Filter configuration.
- C. FortiGate will allow the connection based on the FortiGuard category based filter configuration.
- D. FortiGate will block the connection as an invalid URL.

**Answer:** B

**Explanation:**

fortigate does it in order Static URL -> FortiGuard -> Content -> Advanced (java, cookie removal..)so block it in first step

#### NEW QUESTION 7

View the exhibit, which contains an entry in the session table, and then answer the question below.

Which one of the following statements is true regarding FortiGate's inspection of this session?

- A. FortiGate applied proxy-based inspection.
- B. FortiGate forwarded this session without any inspection.
- C. FortiGate applied flow-based inspection.
- D. FortiGate applied explicit proxy-based inspection.

**Answer:** A

**Explanation:**

<https://kb.fortinet.com/kb/viewContent.do?externalId=FD30042>

#### NEW QUESTION 8

Examine the output of the 'get router info bgp summary' command shown in the exhibit; then answer the question below.

Which statement can explain why the state of the remote BGP peer 10.200.3.1 is Connect?

- A. The local peer is receiving the BGP keepalives from the remote peer but it has not received any BGP prefix yet.
- B. The TCP session for the BGP connection to 10.200.3.1 is down.
- C. The local peer has received the BGP prefixed from the remote peer.
- D. The local peer is receiving the BGP keepalives from the remote peer but it has not received the OpenConfirm yet.

**Answer:** B

**Explanation:**

<http://www.ciscopress.com/articles/article.asp?p=2756480&seqNum=4>

**NEW QUESTION 9**

Examine the following partial outputs from two routing debug commands; then answer the question below:

Why the default route using port2 is not displayed in the output of the second command?

- A. It has a lower priority than the default route using port1.
- B. It has a higher priority than the default route using port1.
- C. It has a higher distance than the default route using port1.
- D. It is disabled in the FortiGate configuration.

**Answer:** C

**Explanation:**

<http://kb.fortinet.com/kb/viewContent.do?externalId=FD32103>

**NEW QUESTION 10**

View the IPS exit log, and then answer the question below.

# diagnose test application ipsmonitor 3 ipsengine exit log"

pid = 93 (cfg), duration = 5605322 (s) at Wed Apr 19 09:57:26 2017 code = 11, reason: manual

What is the status of IPS on this FortiGate?

- A. IPS engine memory consumption has exceeded the model-specific predefined value.
- B. IPS daemon experienced a crash.
- C. There are communication problems between the IPS engine and the management database.
- D. All IPS-related features have been disabled in FortiGate's configuration.

**Answer:** D

**Explanation:**

The command diagnose test application ipsmonitor includes many options that are useful for troubleshooting purposes. Option 3 displays the log entries generated every time an IPS engine process stopped. There are various reasons why these logs are generated: Manual: Because of the configuration, IPS no longer needs to run (that is, all IPS-related features have been disabled)

**NEW QUESTION 10**

When does a RADIUS server send an Access-Challenge packet?

- A. The server does not have the user credentials yet.
- B. The server requires more information from the user, such as the token code for two-factor authentication.
- C. The user credentials are wrong.
- D. The user account is not found in the server.

**Answer:** B

**NEW QUESTION 14**

Refer to the exhibit, which contains the debug output of diagnose dvm device list.

Which two statements about the output shown in the exhibit are correct? (Choose two.)

- A. ADOMs are disabled on the FortiManager
- B. The FortiGate configuration is in sync with latest running revision history.
- C. There are pending device-level changes yet to be installed on Local-FortiGate.
- D. The policy package has been modified for Local-FortiGate.

**Answer:** BC

#### NEW QUESTION 18

What is the diagnose test application ipsmonitor 99 command used for?

- A. To enable IPS bypass mode
- B. To provide information regarding IPS sessions
- C. To disable the IPS engine
- D. To restart all IPS engines and monitors

**Answer:** D

#### NEW QUESTION 23

What global configuration setting changes the behavior for content-inspected traffic while FortiGate is in system conserve mode?

- A. av-failopen
- B. mem-failopen
- C. utm-failopen
- D. ips-failopen

**Answer:** A

#### Explanation:

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-security-profiles-54/Other\\_Profile\\_Consideratio](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-security-profiles-54/Other_Profile_Consideratio)

#### NEW QUESTION 24

View the exhibit, which contains the output of get sys ha status, and then answer the question below.

Which statements are correct regarding the output? (Choose two.)

- A. The slave configuration is not synchronized with the master.
- B. The HA management IP is 169.254.0.2.
- C. Master is selected because it is the only device in the cluster.
- D. port 7 is used the HA heartbeat on all devices in the cluster.

**Answer:** AD

#### NEW QUESTION 29

Examine the output from the 'diagnose debug authd fsso list' command; then answer the question below.

# diagnose debug authd fsso list —FSSO logons-IP: 192.168.3.1 User: STUDENT Groups: TRAININGAD/USERS Workstation: INTERNAL2. TRAINING. LAB The IP address 192.168.3.1 is

NOT the one used by the workstation INTERNAL2. TRAINING. LAB.

What should the administrator check?

- A. The IP address recorded in the logon event for the user STUDENT.
- B. The DNS name resolution for the workstation name INTERNAL2. TRAININ
- C. LAB.
- D. The source IP address of the traffic arriving to the FortiGate from the workstation INTERNAL2.TRAININ
- E. LAB.
- F. The reserve DNS lookup forthe IP address 192.168.3.1.

**Answer:** C

#### NEW QUESTION 31

View these partial outputs from two routing debug commands:

Which outbound interface will FortiGate use to route web traffic from internal users to the Internet?

- A. Both port1 and port2
- B. port3
- C. port1
- D. port2

**Answer:** C

#### NEW QUESTION 36

Which of the following statements is true regarding a FortiGate configured as an explicit web proxy?

- A. FortiGate limits the number of simultaneous sessions per explicit web proxy use
- B. This limit CANNOT be modified by the administrator.
- C. FortiGate limits the total number of simultaneous explicit web proxy users.
- D. FortiGate limits the number of simultaneous sessions per explicit web proxy user The limit CAN bmodified by the administrator

E. FortiGate limits the number of workstations that authenticate using the same web proxy user credentials. This limit CANNOT be modified by the administrator.

**Answer:** B

**Explanation:**

[https://help.fortinet.com/fos50hlp/52data/Content/FortiOS/fortigate-WAN-opt-52/web\\_proxy.htm#Explicit2](https://help.fortinet.com/fos50hlp/52data/Content/FortiOS/fortigate-WAN-opt-52/web_proxy.htm#Explicit2)

The explicit proxy does not limit the number of active sessions for each user. As a result the actual explicit proxy session count is usually much higher than the number of explicit web proxy users. If an excessive number of explicit web proxy sessions is compromising system performance you can limit the amount of users if the FortiGate unit is operating with multiple VDOMs.

**NEW QUESTION 41**

Refer to the exhibit, which contains the output of a BGP debug command.

Which statement about the exhibit is true?

- A. The local router has received a total of three BGP prefixes from all peers.
- B. The local router has not established a TCP session with 100.64.3.1.
- C. Since the counters were last reset, the 10.200.3.1 peer has never been down.
- D. The local router BGP state is OpenConfirm with the 10.127.0.75 peer.

**Answer:** B

**NEW QUESTION 45**

View the exhibit, which contains the output of a diagnose command, and then answer the question below.

Which statements are true regarding the output in the exhibit? (Choose two.)

- A. FortiGate will probe 121.111.236.179 every fifteen minutes for a response.
- B. Servers with the D flag are considered to be down.
- C. Servers with a negative TZ value are experiencing a service outage.
- D. FortiGate used 209.222.147.3 as the initial server to validate its contract.

**Answer:** AD

**Explanation:**

A – because flag is Failed so fortigate will check if server is available every 15 min D-state is I , contact to validate contract info

**NEW QUESTION 47**

Two independent FortiGate HA clusters are connected to the same broadcast domain. The administrator has reported that both clusters are using the same HA virtual MAC address. This creates a duplicated MAC address problem in the network. What HA setting must be changed in one of the HA clusters to fix the problem?

- A. Group ID.
- B. Group name.
- C. Session pickup.
- D. Gratuitous ARPs.

**Answer:** A

**Explanation:**

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA\\_failoverVMAC.htm](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA_failoverVMAC.htm)

**NEW QUESTION 49**

Which two statements about bulk configuration changes made using FortiManager CLI scripts are correct? (Choose two.)

- A. When run on the Device Database, you must use the installation wizard to apply the changes to the managed FortiGate device.
- B. When run on the Remote FortiGate directly, administrators do not have the option to review the changes prior to installation.
- C. When run on the All FortiGate in ADOM, changes are automatically installed without the creation of a new revision history.

D. When run on the Policy Package, ADOM database, changes are applied directly to the managed FortiGate device.

**Answer:** AB

#### NEW QUESTION 54

What does the dirty flag mean in a FortiGate session?

- A. Traffic has been blocked by the antivirus inspection.
- B. The next packet must be re-evaluated against the firewall policies.
- C. The session must be removed from the former primary unit after an HA failover.
- D. Traffic has been identified as from an application that is not allowed.

**Answer:** B

**Explanation:**

<https://kb.fortinet.com/kb/viewContent.do?externalId=FD40119&sliceId=1>

#### NEW QUESTION 55

A FortiGate device has the following LDAP configuration:

The LDAP user student cannot authenticate. The exhibit shows the output of the authentication real time debug while testing the student account:

Based on the above output, what FortiGate LDAP settings must the administer check? (Choose two.)

- A. cnid.
- B. username.
- C. password.
- D. dn.

**Answer:** BC

**Explanation:**

<https://kb.fortinet.com/kb/viewContent.do?externalId=13141>

#### NEW QUESTION 59

When using the SSL certificate inspection method to inspect HTTPS traffic, how does FortiGate filter web requests when the client browser does not provide the server name indication (SNI) extension?

- A. FortiGate uses the requested URL from the user's web browser.
- B. FortiGate uses the CN information from the Subject field in the server certificate.
- C. FortiGate blocks the request without any further inspection.
- D. FortiGate switches to the full SSL inspection method to decrypt the data.

**Answer:** B

#### NEW QUESTION 63

View the exhibit, which contains the output of a web diagnose command, and then answer the question below.

Which one of the following statements explains why the cache statistics are all zeros?

- A. The administrator has reallocated the cache memory to a separate process.
- B. There are no users making web requests.
- C. The FortiGuard web filter cache is disabled in the FortiGate's configuration.
- D. FortiGate is using a flow-based web filter and the cache applies only to proxy-based inspection.

**Answer:** C

#### NEW QUESTION 64

Refer to the exhibit, which contains partial outputs from two routing debug commands.

Why is the port2 default route not in the second command's output?

- A. It has a higher priority value than the default route using port1.
- B. It is disabled in the FortiGate configuration.
- C. It has a lower priority value than the default route using port1.



D. It has a higher distance than the default route using port1.

**Answer:** D

#### NEW QUESTION 67

An administrator has configured a FortiGate device with two VDOMs: root and internal. The administrator has also created an inter-VDOM link that connects both VDOMs. The objective is to have each VDOM advertise some routes to the other VDOM via OSPF through the inter-VDOM link. What OSPF configuration settings must match in both VDOMs to have the OSPF adjacency successfully forming? (Choose three.)

- A. Router ID.
- B. OSPF interface area.
- C. OSPF interface cost.
- D. OSPF interface MTU.
- E. Interface subnet mask.

**Answer:** BDE

#### NEW QUESTION 71

An administrator has configured the following CLI script on FortiManager, which failed to apply any changes to the managed device after being executed.

Why didn't the script make any changes to the managed device?

- A. Commands that start with the # sign are not executed.
- B. CLI scripts will add objects only if they are referenced by policies.
- C. Incomplete commands are ignored in CLI scripts.
- D. Static routes can only be added using TCL scripts.

**Answer:** A

#### Explanation:

[https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager\\_Admin\\_Guide/1000\\_Device%20Manager/2400\\_Sc](https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager_Admin_Guide/1000_Device%20Manager/2400_Sc)

A sequence of FortiGate CLI commands, as you would type them at the command line. A comment line starts with the number sign (#). A comment line will not be executed.

#### NEW QUESTION 73

How does FortiManager handle FortiGuard requests from FortiGate devices, when it is configured as a local FDS?

- A. FortiManager can download and maintain local copies of FortiGuard databases.
- B. FortiManager supports only FortiGuard push to managed devices.
- C. FortiManager will respond to update requests only if they originate from a managed device.
- D. FortiManager does not support rating requests.

**Answer:** A

#### NEW QUESTION 78

Which real time debug should an administrator enable to troubleshoot RADIUS authentication problems?

- A. Diagnose debug application radius -1.
- B. Diagnose debug application fnbamd -1.
- C. Diagnose authd console -log enable.
- D. Diagnose radius console -log enable.

**Answer:** B

#### Explanation:

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD32838>

#### NEW QUESTION 82

View the exhibit, which contains a session entry, and then answer the question below.

Which statement is correct regarding this session?

- A. It is an ICMP session from 10.1.10.10 to 10.200.1.1.
- B. It is an ICMP session from 10.1.10.10 to 10.200.5.1.
- C. It is a TCP session in ESTABLISHED state from 10.1.10.10 to 10.200.5.1.



D. It is a TCP session in CLOSE\_WAIT state from 10.1.10.10 to 10.200.1.1.

**Answer:** B

### NEW QUESTION 83

An administrator cannot connect to the GIU of a FortiGate unit with the IP address 10.0.1.254. The administrator runs the debug flow while attempting the connection using HTTP. The output of the debug flow is shown in the exhibit:

Based on the error displayed by the debug flow, which are valid reasons for this problem? (Choose two.)

- A. HTTP administrative access is disabled in the FortiGate interface with the IP address 10.0.1.254.
- B. Redirection of HTTP to HTTPS administrative access is disabled.
- C. HTTP administrative access is configured with a port number different than 80.
- D. The packet is denied because of reverse path forwarding check.

**Answer:** AC

### NEW QUESTION 88

Examine the following routing table and BGP configuration; then answer the question below.

The BGP connection is up, but the local peer is NOT advertising the prefix 192.168.1.0/24. Which configuration change will make the local peer advertise this prefix?

- A. Enable the redistribution of connected routers into BGP.
- B. Enable the redistribution of static routers into BGP.
- C. Disable the setting network-import-check.
- D. Enable the setting ebgp-multipath.

**Answer:** C

### NEW QUESTION 89

View the exhibit, which contains the output of diagnose sys session list, and then answer the question below.

If the HA ID for the primary unit is zero (0), which statement is correct regarding the output?

- A. This session is for HA heartbeat traffic.
- B. This session is synced with the slave unit.
- C. The inspection of this session has been offloaded to the slave unit.
- D. This session cannot be synced with the slave unit.

**Answer:** B

### NEW QUESTION 92

An administrator is running the following sniffer in a FortiGate: diagnose sniffer packet any "host 10.0.2.10" 2  
What information is included in the output of the sniffer? (Choose two.)

- A. Ethernet headers.
- B. IP payload.
- C. IP headers.
- D. Port names.

**Answer:** BC

**Explanation:**

<https://kb.fortinet.com/kb/documentLink.do?externalID=11186>

**NEW QUESTION 95**

Refer to the exhibit, which shows the output of a debug command.

Which two statements about the output are true? (Choose two.)

- A. The local FortiGate OSPF router ID is 0.0.0.4.
- B. Port4 is connected to the OSPF backbone area.
- C. In the network connected to port4, two OSPF routers are down.
- D. The local FortiGate is the backup designated router.

**Answer:** AB

**Explanation:**

Area 0.0.0.0 is the backbone area.

**NEW QUESTION 100**

Refer to the exhibit, which contains the output of get system ha status.

Which two statements about the output are true? (Choose two.)

- A. The slave configuration is synchronized with the master.
- B. port7 is used as the HA heartbeat on all devices in the cluster.
- C. Master is selected based on the priority configured under config system ha.
- D. The HA management IP is 169.254.0.2.

**Answer:** BC

**NEW QUESTION 105**

Refer to the exhibit, which shows a FortiGate configuration.

An administrator is troubleshooting a web filter issue on FortiGate. The administrator has configured a web filter profile and applied it to a policy; however, the web filter is not inspecting any traffic that is passing through the policy.

What must the administrator change to fix the issue?

- A. The administrator must increase webfilter-timeout.
- B. The administrator must disable webfilter-force-off.
- C. The administrator must change protocol to TCP.
- D. The administrator must enable fortiguard-anycast.

**Answer:** D

**NEW QUESTION 108**

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