



Fortinet

Exam Questions NSE7_EFW-6.4

Fortinet NSE 7 - Enterprise Firewall 6.4

NEW QUESTION 1

A FortiGate is rebooting unexpectedly without any apparent reason. What troubleshooting tools could an administrator use to get more information about the problem? (Choose two.)

- A. Firewall monitor.
- B. Policy monitor.
- C. Logs.
- D. Crashlogs.

Answer: CD

NEW QUESTION 2

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 3

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 4

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 5

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 6

Which configuration can be used to reduce the number of BGP sessions in an IBGP network?

- A. Neighbor range
- B. Route reflector

- C. Next-hop-self
- D. Neighbor group

Answer: B

Explanation:

Route reflectors help to reduce the number of IBGP sessions inside an AS. A route reflector forwards the routes learned from one peer to the other peers. If you configure route reflectors, you don't need to create a full mesh IBGP network. All clients in a cluster only talk to route reflector to get sync routing updates. Route reflectors pass the routing updates to other route reflectors and border routers within the AS.

NEW QUESTION 7

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 8

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

Which statements are true regarding the Weight value?

- A. Its initial value is calculated based on the round trip delay (RTT).
- B. Its initial value is statically set to 10.
- C. Its value is incremented with each packet lost.
- D. It determines which FortiGuard server is used for license validation.

Answer: C

NEW QUESTION 9

Examine the output from the 'diagnose vpn tunnel list' command shown in the exhibit; then answer the question below.

Which command can be used to sniff the ESP traffic for the VPN DialUP_0?

- A. `diagnose sniffer packet any 'port 500'`
- B. `diagnose sniffer packet any 'esp'`
- C. `diagnose sniffer packet any 'host 10.0.10.10'`
- D. `diagnose sniffer packet any 'port 4500'`

Answer: D

Explanation:

NAT-T is enabled. `natt: mode=silent` Protocol ESP is used. ESP is encapsulated in UDP port 4500 when NAT-T is enabled.

NEW QUESTION 10

The CLI command `set intelligent-mode <enable | disable>` controls the IPS engine's adaptive scanning behavior. Which of the following statements describes IPS adaptive scanning?

- A. Determines the optimal number of IPS engines required based on system load.
- B. Downloads signatures on demand from FDS based on scanning requirements.
- C. Determines when it is secure enough to stop scanning session traffic.
- D. Choose a matching algorithm based on available memory and the type of inspection being performed.

Answer: C

Explanation:

Configuring IPS intelligence Starting with FortiOS 5.2, `intelligent-mode` is a new adaptive detection method. This command is enabled by default and it means that the IPS engine will perform adaptive scanning so that, for some traffic, the FortiGate can quickly finish scanning and offload the traffic to NPU or kernel. It is a balanced method which could cover all known exploits. When disabled, the IPS engine scans every single byte. `config ips globalset intelligent-mode {enable|disable}end`

NEW QUESTION 10

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 13

Which two statements about an auxiliary session are true? (Choose two.)

- A. With the auxiliary session setting enabled, ECMP traffic is accelerated to the NP6 processor.
- B. With the auxiliary session setting enabled, two sessions will be created in case of routing change.
- C. With the auxiliary session setting disabled, for each traffic path, FortiGate will use the same auxiliary session.
- D. With the auxiliary session disabled, only auxiliary sessions will be offloaded.

Answer: CD

NEW QUESTION 17

A FortiGate device has the following LDAP configuration:

The administrator executed the 'dsquery' command in the Windows LDAP server 10.0.1.10, and got the following output:

```
>dsquery user -samid administrator
```

"CN=Administrator, CN=Users, DC=trainingAD, DC=training, DC=lab" Based on the output, what FortiGate LDAP setting is configured incorrectly?

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

Answer: B

Explanation:

<https://kb.fortinet.com/kb/viewContent.do?externalId=FD37516>

NEW QUESTION 21

Refer to the exhibit, which contains a TCL script configuration on FortiManager.

An administrator has configured the TCL script on FortiManager, but failed to apply any changes to the managed device after being executed. Why did the TCL script fail to make any changes to the managed device?

- A. Changes in an interface configuration can only be done by CLI script.
- B. The TCL script must start with #include <>.
- C. Incomplete commands are ignored in TCL scripts.
- D. The TCL command run_cmd has not been created.

Answer: D

NEW QUESTION 25

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

An administrator added the following Ipsec VPN to a FortiGate configuration:

```
configvpn ipsec phasel -interface edit "RemoteSite"
```

```
set type dynamic
```

```
set interface "port1" set mode main
```

```
set psksecret ENC LCVkCiK2E2PhVUzZe next
```

```
end
```

```
config vpn ipsec phase2-interface edit "RemoteSite"
```

```
set phasel name "RemoteSite" set proposal 3des-sha256
```

```
next end
```

However, the phase 1 negotiation is failing. The administrator executed the IKF real time debug while attempting the Ipsec connection. The output is shown in the exhibit.

What is causing the IPsec problem in the phase 1 ?

- A. The incoming IPsec connection is matching the wrong VPN configuration
- B. The phrase-1 mode must be changed to aggressive
- C. The pre-shared key is wrong
- D. NAT-T settings do not match

Answer: C

NEW QUESTION 32

Which two conditions must be met for a statistic route to be active in the routing table? (Choose two.)

- A. The link health monitor (if configured) is up.
- B. There is no other route, to the same destination, with a higher distance.
- C. The outgoing interface is up.
- D. The next-hop IP address is up.

Answer: AC

NEW QUESTION 35

Examine the partial output from the IKE real time debug shown in the exhibit; then answer the question below.

Why didn't the tunnel come up?

- A. IKE mode configuration is not enabled in the remote IPsec gateway.
- B. The remote gateway's Phase-2 configuration does not match the local gateway's phase-2 configuration.
- C. The remote gateway's Phase-1 configuration does not match the local gateway's phase-1 configuration.
- D. One IPsec gateway is using main mode, while the other IPsec gateway is using aggressive mode.

Answer: C

NEW QUESTION 39

View the global IPS configuration, and then answer the question below.

Which of the following statements is true regarding this configuration?

- A. IPS will scan every byte in every session.
- B. FortiGate will spawn IPS engine instances based on the system load.
- C. New packets will be passed through without inspection if the IPS socket buffer runs out of memory.
- D. IPS will use the faster matching algorithm which is only available for units with more than 4 GB memory.

Answer: A

NEW QUESTION 42

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

What statement is correct about this FortiGate?

- A. It is currently in system conserve mode because of high CPU usage.
- B. It is currently in FD conserve mode.
- C. It is currently in kernel conserve mode because of high memory usage.
- D. It is currently in system conserve mode because of high memory usage.

Answer: D

NEW QUESTION 44

Which statement is true regarding File description (FD) conserve mode?

- A. IPS inspection is affected when FortiGate enters FD conserve mode.
- B. A FortiGate enters FD conserve mode when the amount of available description is less than 5%.
- C. FD conserve mode affects all daemons running on the device.
- D. Restarting the WAD process is required to leave FD conserve mode.

Answer: B

NEW QUESTION 45

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 48

The logs in a FSSO collector agent (CA) are showing the following error: failed to connect to registry: PIKA1026 (192.168.12.232)
What can be the reason for this error?

- A. The CA cannot resolve the name of the workstation.
- B. The FortiGate cannot resolve the name of the workstation.
- C. The remote registry service is not running in the workstation 192.168.12.232.
- D. The CA cannot reach the FortiGate with the IP address 192.168.12.232.

Answer: C

Explanation:

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD30548>

NEW QUESTION 53

Examine the output of the 'diagnose ips anomaly list' command shown in the exhibit; then answer the question below.

Which IP addresses are included in the output of this command?

- A. Those whose traffic matches a DoS policy.
- B. Those whose traffic matches an IPS sensor.
- C. Those whose traffic exceeded a threshold of a matching DoS policy.
- D. Those whose traffic was detected as an anomaly by an IPS sensor.

Answer: A

NEW QUESTION 54

In which two states is a given session categorized as ephemeral? (Choose two.)

- A. A TCP session waiting to complete the three-way handshake.
- B. A TCP session waiting for FIN ACK.
- C. A UDP session with packets sent and received.
- D. A UDP session with only one packet received.

Answer: BC

NEW QUESTION 56

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 61

An administrator wants to capture ESP traffic between two FortiGates using the built-in sniffer. If the administrator knows that there is no NAT device located between both FortiGates, what command should the administrator execute?

- A. diagnose sniffer packet any 'udp port 500'
- B. diagnose sniffer packet any 'udp port 4500'
- C. diagnose sniffer packet any 'esp'
- D. diagnose sniffer packet any 'udp port 500 or udp port 4500'

Answer: C

Explanation:

Capture IKE Traffic without NAT:diagnose sniffer packet 'host and udp port 500'

-----Capture ESP

Traffic without NAT:diagnose sniffer packet any 'host and esp'

-----Capture IKE

and ESP with NAT-T:diagnose sniffer packet any 'host and (udp port 500 or udp port 4500)'

NEW QUESTION 62

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 64

Examine the output from the BGP real time debug shown in the exhibit, then the answer the question below:

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

- A. BGP peers have successfully interchanged Open and Keepalive messages.
- B. Local BGP peer received a prefix for a default route.
- C. The state of the remote BGP peer is OpenConfirm.
- D. The state of the remote BGP peer will go to Connect after it confirms the received prefixes.

Answer: AB

NEW QUESTION 66

An administrator cannot connect to the GUI 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 69

Examine the output of the 'diagnose debug rating' command shown in the exhibit; then answer the question below.

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

- A. There are three FortiGuard servers that are not responding to the queries sent by the FortiGate.
- B. The TZ value represents the delta between each FortiGuard server's time zone and the FortiGate's time zone.
- C. FortiGate will send the FortiGuard queries to the server with highest weight.
- D. A server's round trip delay (RTT) is not used to calculate its weight.

Answer: BC

NEW QUESTION 71

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 74

View the exhibit, which contains a screenshot of some phase-1 settings, and then answer the question below.

The VPN is up, and DPD packets are being exchanged between both IPsec gateways; however, traffic cannot pass through the tunnel. To diagnose, the administrator enters these CLI commands:

However, the IKE real time debug does not show any output. Why?

- A. The debug output shows phases 1 and 2 negotiations onl
- B. Once the tunnel is up, it does not show any more output.
- C. The log-filter setting was set incorrectl
- D. The VPN's traffic does not match this filter.
- E. The debug shows only error message
- F. If there is no output, then the tunnel is operating normally.

- G. The debug output shows phase 1 negotiation onl
- H. After that, the administrator must enable the following real time debug: diagnose debug application ipsec -1.

Answer: B

NEW QUESTION 77

A corporate network allows Internet Access to FSSO users only. The FSSO user student does not have Internet access after successfully logged into the Windows AD network. The output of the 'diagnose debug authd fso list' command does not show student as an active FSSO user. Other FSSO users can access the Internet without problems. What should the administrator check? (Choose two.)

- A. The user student must not be listed in the CA's ignore user list.
- B. The user student must belong to one or more of the monitored user groups.
- C. The student workstation's IP subnet must be listed in the CA's trusted list.
- D. At least one of the student's user groups must be allowed by a FortiGate firewall policy.

Answer: AD

Explanation:

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD38828>

NEW QUESTION 79

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

Based on the debug output, which phase-1 setting is enabled in the configuration of this VPN?

- A. auto-discovery-sender
- B. auto-discovery-forwarder
- C. auto-discovery-shortcut
- D. auto-discovery-receiver

Answer: B

NEW QUESTION 84

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 88

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

- A. Only the root FortiGate collects network information and forwards it to FortiAnalyzer.
- B. FortiGate uses FortiTelemetry protocol to communicate with FortiAnalyzer.
- C. All FortiGate devices in the Security Fabric must have bidirectional FortiTelemetry connectivity.
- D. Branch FortiGate devices must be configured first.

Answer: BC

NEW QUESTION 89

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 92

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