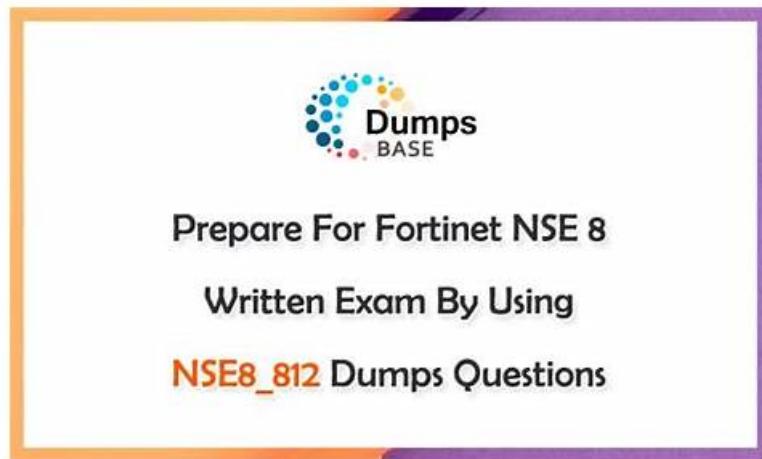


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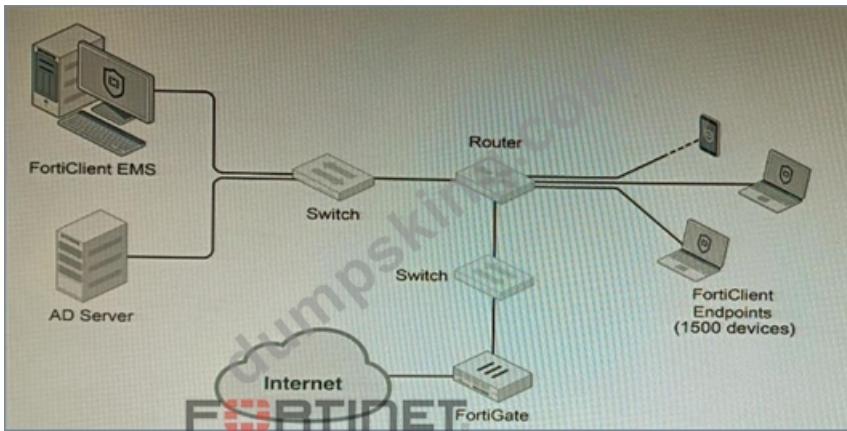
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Fortinet NSE 8 - Written Exam (NSE8_812) Sample Questions (Q21-Q26):

NEW QUESTION # 21

Refer to the exhibit.



A customer wants FortiClient EMS configured to deploy to 1500 endpoints. The deployment will be integrated with FortiOS and there is an Active Directory server.

Given the configuration shown in the exhibit, which two statements about the installation are correct? (Choose two.)

- A. You must use Standard or Enterprise SQL Server rather than the included SQL Server Express
- B. If no client update time is specified on EMS, the user will be able to choose the time of installation if they wish to delay.
- C. A client can be eligible for multiple enabled configurations on the EMS server, and one will be chosen based on first priority
- D. You can only deploy initial installations to Windows clients.
- E. The Windows clients only require 'File and Printer Sharing' allowed and the rest is handled by Active Directory group policy

Answer: B,E

Explanation:

A is correct because if no client update time is specified on EMS, the user will be able to choose the time of installation if they wish to delay. This is because the FortiClient EMS server will not force the installation on the client.

E is correct because the Windows clients only require "File and Printer Sharing" allowed and the rest is handled by Active Directory group policy. This is because the Active Directory group policy will configure the Windows clients to automatically install FortiClient and the FortiClient EMS server will only need to push the initial configuration to the clients.

The other options are incorrect. Option B is incorrect because a client can only be eligible for one enabled configuration on the EMS server. Option C is incorrect because you can deploy initial installations to both Windows and macOS clients. Option D is incorrect because you can use the included SQL Server Express to deploy FortiClient EMS.

References:

[Deploying FortiClient EMS | FortiClient / FortiOS 7.4.0 - Fortinet Document Library](#) [Configuring FortiClient EMS | FortiClient / FortiOS 7.4.0 - Fortinet Document Library](#) [FortiClient EMS installation requirements | FortiClient / FortiOS 7.4.0 - Fortinet Document Library](#)

NEW QUESTION # 22

A customer is planning on moving their secondary data center to a cloud-based IaaS. They want to place all the Oracle-based systems Oracle Cloud, while the other systems will be on Microsoft Azure with ExpressRoute service to their main data center.

They have about 200 branches with two internet services as their only WAN connections. As a security consultant you are asked to design an architecture using Fortinet products with security, redundancy and performance as a priority.

Which two design options are true based on these requirements? (Choose two.)

- A. Systems running on Azure will need to go through the main data center to access the services on Oracle Cloud.
- B. Use FortiGate VM for IPSEC over ExpressRoute, as traffic is not encrypted by Azure.
- C. Two ExpressRoute services to the main data center are required to implement SD-WAN between a FortiGate VM in Azure and a FortiGate device at the data center edge
- D. Branch FortiGate devices must be configured as VPN clients for the branches' internal network to be able to access Oracle services without using public IPs.

Answer: A,D

Explanation:

a) Systems running on Azure will need to go through the main data center to access the services on Oracle Cloud. This is because the Oracle Cloud is not directly connected to the Azure Cloud. The traffic will need to go through the main data center in order to

reach the Oracle Cloud.

c) Branch FortiGate devices must be configured as VPN clients for the branches' internal network to be able to access Oracle services without using public IPs. This is because the Oracle Cloud does not allow direct connections from the internet. The traffic will need to go through the FortiGate devices in order to reach the Oracle Cloud.

The other options are not correct.

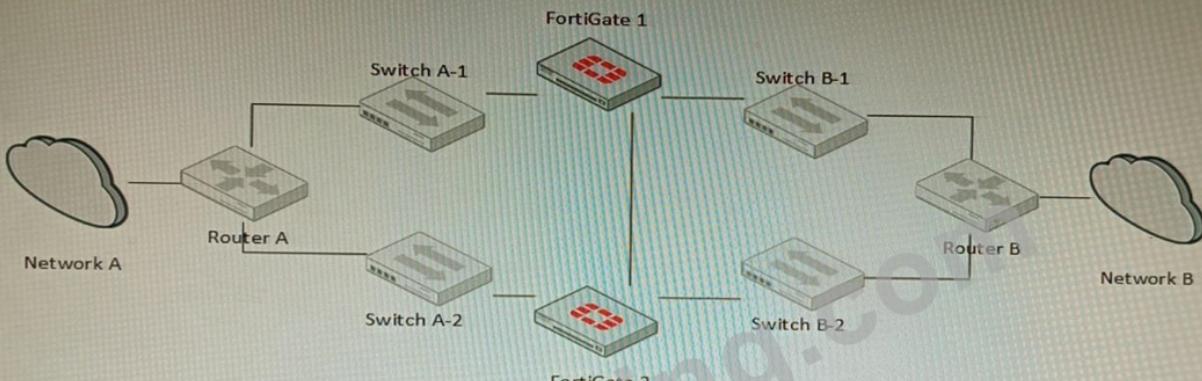
b) Use FortiGate VM for IPSEC over ExpressRoute, as traffic is not encrypted by Azure. This is not necessary. Azure does encrypt traffic over ExpressRoute.

d) Two ExpressRoute services to the main data center are required to implement SD-WAN between a FortiGate VM in Azure and a FortiGate device at the data center edge. This is not necessary. A single ExpressRoute service can be used to implement SD-WAN between a FortiGate VM in Azure and a FortiGate device at the data center edge.

NEW QUESTION # 23

Refer to the exhibits.

Topology



Configuration

```
FGT-HA-1 # get system ha status
HA Health Status: OK
Mode: FortiGate-VM64
Mode: HA-A-P
Group: 0
Debug: 0
Cluster Uptime: 0 days 1:35:12
Cluster state change time: 2019-05-16 14:53:05
Master selected using:
  <2019/05/16 14:53:05> FGVMEVLQOG33WM3D is selected as the
  master because it has the largest value of uptime.
  <2019/05/16 14:45:53> FGVMEVLQOG33WM3D is selected as the
  master because it's the only member in the cluster.
ses_pickup: enable, ses_pickup_delay=disable
override: disable
unicast_hb: peerip=192.168.40.1, myip=192.168.40.2,
hasync_port='port3'
Configuration Status:
  FGVMEVLQOG33WM3D(updated 2 seconds ago): in-sync
```

The exhibits show a FortiGate network topology and the output of the status of high availability on the FortiGate.

Given this information, which statement is correct?

- A. The cluster members are on the same network and the IP addresses were statically assigned.
- B. The cluster mode can support a maximum of four (4) FortiGate VMs
- C. FGVMEVLQOG33WM3D and FGVMEVGCJNHFYI4A share a virtual MAC address.**
- D. The ethertype values of the HA packets are 0x8890, 0x8891, and 0x8892

Answer: C

Explanation:

The output of the status of high availability on the FortiGate shows that the cluster mode is active-passive, which means that only one FortiGate unit is active at a time, while the other unit is in standby mode. The active unit handles all traffic and also sends HA heartbeat packets to monitor the standby unit. The standby unit becomes active if it stops receiving heartbeat packets from the active unit, or if it receives a higher priority from another cluster unit. In active-passive mode, all cluster units share a virtual MAC address for each interface, which is used as the source MAC address for all packets forwarded by the cluster. Reference: <https://docs.fortinet.com/document/fortigate/6.4.0/cookbook/103439/high-availability-with-two-fortigates>

NEW QUESTION # 24

Which feature must you enable on the BGP neighbors to accomplish this goal?

- A. Soft-reconfiguration
- B. Deterministic-med
- **C. Graceful-restart**
- D. Synchronization

Answer: C

Explanation:

Graceful-restart is a feature that allows BGP neighbors to maintain their routing information during a BGP restart or failover event, without disrupting traffic forwarding or causing route flaps. Graceful-restart works by allowing a BGP speaker (the restarting router) to notify its neighbors (the helper routers) that it is about to restart or failover, and request them to preserve their routing information and forwarding state for a certain period of time (the restart time). The helper routers then mark the routes learned from the restarting router as stale, but keep them in their routing table and continue forwarding traffic based on them until they receive an end-of-RIB marker from the restarting router or until the restart time expires. This way, graceful-restart can minimize traffic disruption and routing instability during a BGP restart or failover event. References:

<https://docs.fortinet.com/document/fortigate/7.0.0/cookbook/19662/bgp-graceful-restart>

NEW QUESTION # 25

You are running a diagnose command continuously as traffic flows through a platform with NP6 and you obtain the following output:

```
diag npu np6 dce 1
PDQ_OSW_EHP1 :000000000001833 [5b]
diag npu np6 dce 1
PDQ_OSW_EHP1 :000000000000003 [80]
diag npu np6 dce 1
PDQ_OSW_EHP1 :000000000000052 [94]
```

Given the information shown in the output, which two statements are true? (Choose two.)

- **A. There are packet drops at the XAUI.**
- B. Enabling bandwidth control between the ISF and the NP will change the output
- **C. The output is showing a packet descriptor queue accumulated counter**
- D. Host-shortcut mode is enabled.
- E. Enable HPE shaper for the NP6 will change the output

Answer: A,C

Explanation:

The diagnose command shown in the output is used to display information about NP6 packet descriptor queues. The output shows that there are 16 NP6 units in total, and each unit has four XAUI ports (XA0-XA3). The output also shows that there are some non-zero values in the columns PDQ ACCU (packet descriptor queue accumulated counter) and PDQ DROP (packet descriptor queue drop counter). These values indicate that there are some packet descriptor queues that have reached their maximum capacity and have dropped some packets at the XAUI ports. This could be caused by congestion or misconfiguration of the XAUI ports or the ISF (Internal Switch Fabric). References: <https://docs.fortinet.com/document/fortigate/7.0.0/cli-reference/19662/diagnose-np6-pdq>

The output is showing a packet descriptor queue accumulated counter, which is a measure of the number of packets that have been dropped by the NP6 due to congestion. The counter will increase if there are more packets than the NP6 can handle, which can happen if the bandwidth between the ISF and the NP is not sufficient or if the HPE shaper is enabled.

The output also shows that there are packet drops at the XAUI, which is the interface between the NP6 and the FortiGate's backplane. This means that the NP6 is not able to keep up with the traffic and is dropping packets.

The other statements are not true. Host-shortcut mode is not enabled, and enabling bandwidth control between the ISF and the NP will not change the output. HPE shaper is a feature that can be enabled to improve performance, but it will not change the output of the diagnose command.

NEW QUESTION # 26

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