NSE8_812 Q&As

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QUESTION 1

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. 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.

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

Correct Answer: AC

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.

QUESTION 2

You are troubleshooting a FortiMail Cloud service integrated with Office 365 where outgoing emails are not reaching the recipients\\' mail What are two possible reasons for this problem? (Choose two.)

A. The FortiMail access control rule to relay from Office 365 servers FQDN is missing.

B. The FortiMail DKIM key was not set using the Auto Generation option.

C. The FortiMail access control rules to relay from Office 365 servers public IPs are missing.

D. A Mail Flow connector from the Exchange Admin Center has not been set properly to the FortiMail Cloud FQDN.

Correct Answer: AD

Explanation: A. The FortiMail access control rule to relay from Office 365 servers FQDN is missing.

If the access control rule to relay from Office 365 servers FQDN is missing, then FortiMail will not be able to send emails to Office 365. This is because the access control rule specifies which IP addresses or domains are allowed to relay

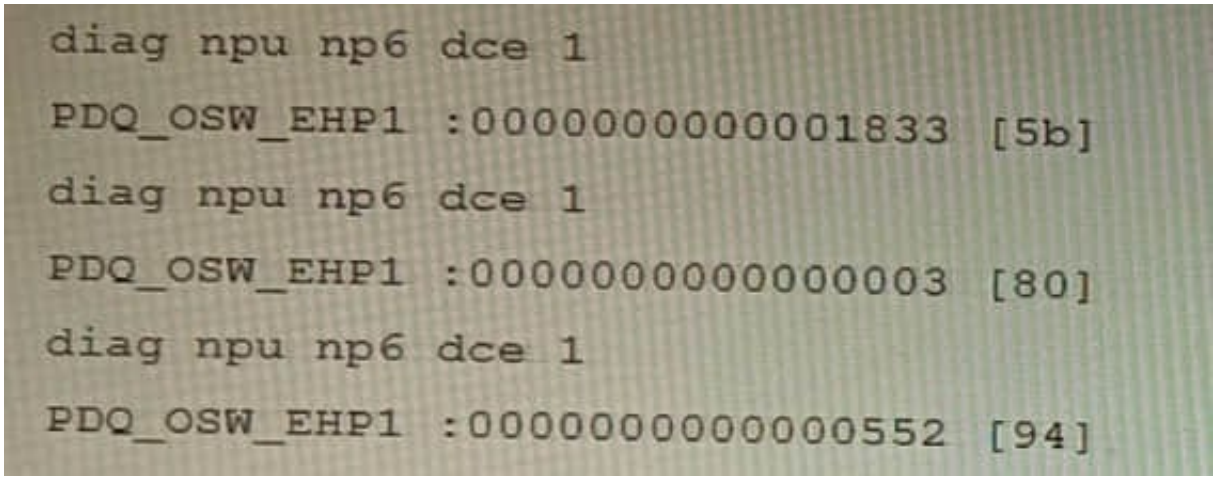
emails through FortiMail. D. A Mail Flow connector from the Exchange Admin Center has not been set properly to the FortiMail Cloud FQDN.

If the Mail Flow connector from the Exchange Admin Center is not set properly to the FortiMail Cloud FQDN, then Office 365 will not be able to send emails to FortiMail. This is because the Mail Flow connector specifies which SMTP server is

used to send emails to external recipients.

QUESTION 3

You are running a diagnose command continuously as traffic flows through a platform with NP6 and you obtain the following output: Given the information shown in the output, which two statements are true? (Choose two.)



A. Enabling bandwidth control between the ISF and the NP will change the output

B. The output is showing a packet descriptor queue accumulated counter

C. Enable HPE shaper for the NP6 will change the output

D. Host-shortcut mode is enabled.

E. There are packet drops at the XAUI.

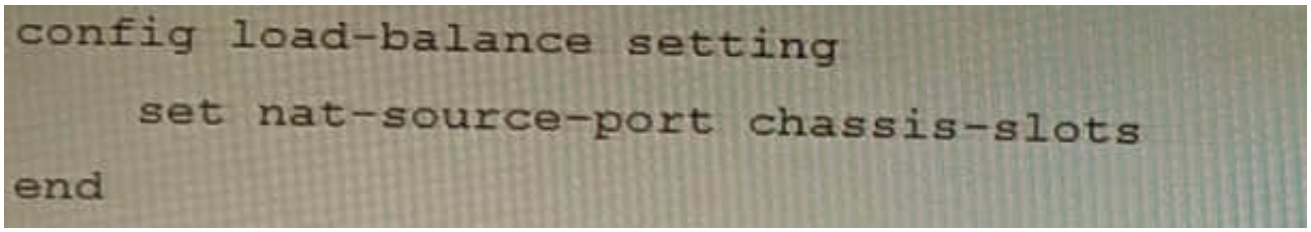
Correct Answer: BE

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. Reference: https://docs.fortinet.com/document/fortigate/7.4.0/hardware-acceleration/48875/diagnose-npu-np6-dce-np6-id-number-of-dropped-np6-packets

QUESTION 4

Review the following FortiGate-6000 configuration excerpt:



Based on the configuration, which statement is correct regarding SNAT source port partitioning behavior?

A. It dynamically distributes SNAT source ports to operating FPCs or FPMs.

B. It is the default SNAT configuration and preserves active sessions when an FPC or FPM goes down.

C. It statically distributes SNAT source ports to operating FPCs or FPMs

D. It equally distributes SNAT source ports across chassis slots.

Correct Answer: A

Explanation: The configuration excerpt shows that the SNAT source port partitioning behavior is set to dynamic. This means that the FortiGate will dynamically distribute SNAT source ports to operating FPCs or FPMs. This ensures that active

sessions are not interrupted if an FPC or FPM goes down.

The other options are incorrect. Option B is incorrect because the default SNAT configuration is static. Option C is incorrect because the configuration excerpt does not specify that SNAT source ports are statically distributed. Option D is

incorrect because the SNAT source ports are not evenly distributed across chassis slots. Here are some additional details about SNAT source port partitioning behavior:

SNAT source port partitioning behavior can be set to dynamic or static.

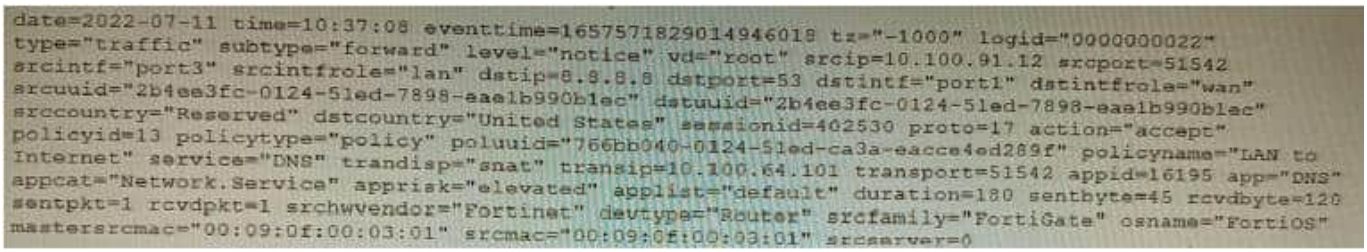
The default SNAT configuration is static.

Dynamic SNAT source port partitioning ensures that active sessions are not interrupted if an FPC or FPM goes down.

Static SNAT source port partitioning can improve performance by reducing the number of SNAT lookups.

QUESTION 5

You must analyze an event that happened at 20:37 UTC. One log relevant to the event is extracted from FortiGate logs:



The devices and the administrator are all located in different time zones Daylight savings time (DST) is disabled The FortiGate is at GMT-1000. The FortiAnalyzer is at GMT-0800 Your browser local time zone is at GMT-03.00

You want to review this log on FortiAnalyzer GUI, what time should you use as a filter?

A. 20:37:08

B. 10:37:08

C. 17:37:08

D. 12.37:08

Correct Answer: C

Explanation: To review this log on FortiAnalyzer GUI, the administrator should use the time filter that matches the local time zone of FortiAnalyzer, which is GMT-0800. Since the log was generated at 20:37 UTC (GMT+0000), the corresponding time in GMT-0800 is

20:37 - 8 hours = 12:37. However, since DST is disabled on FortiAnalyzer, the administrator should add one hour to account for daylight saving time difference, resulting in 12:37 + 1 hour = 13:37. Therefore, the time filter to use is 13:37:08. References:https://docs.fortinet.com/document/fortianalyzer/6.4.0/administration- guide/103664/time-zone-and-daylight-saving-time