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Fortinet NSE8_812 Exam, also known as the Fortinet NSE 8 - Written Exam, is a certification exam that is designed to validate the knowledge and skills of advanced network security professionals. NSE8_812 exam is targeted towards professionals who are responsible for designing, implementing, and managing complex Fortinet security solutions. NSE8_812 exam covers a wide range of topics, including network security design, secure wireless LAN, advanced threat protection, and more.

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Fortinet NSE 8 - Written Exam (NSE8_812) Sample Questions (Q63-Q68):

NEW QUESTION # 63

SD-WAN is configured on a FortiGate. You notice that when one of the internet links has high latency the time to resolve names using DNS from FortiGate is very high.

You must ensure that the FortiGate DNS resolution times are as low as possible with the least amount of work.

What should you configure?

- A. Configure an SD-WAN rule to the DNS server and use the FortiGate interface IPs in the source address.
- B. Configure local out traffic to use the outgoing interface based on SD-WAN rules with a manual defined IP associated to a loopback interface and configure an SD-WAN rule from the loopback to the DNS server.
- C. Configure local out traffic to use the outgoing interface based on SD-WAN rules with the interface IP and configure an SD-WAN rule to the DNS server.
- D. Configure two DNS servers and use DNS servers recommended by the two internet providers.

Answer: C

Explanation:

SD-WAN is a feature that allows users to optimize network performance and reliability by using multiple WAN links and applying rules based on various criteria, such as latency, jitter, packet loss, etc. One way to ensure that the FortiGate DNS resolution times are as low as possible with the least amount of work is to configure local out traffic to use the outgoing interface based on SD-WAN rules with the interface IP and configure an SD-WAN rule to the DNS server. This means that the FortiGate will use the best WAN link available to send DNS queries to the DNS server according to the SD-WAN rule, and use its own interface IP as the source address. This avoids NAT issues and ensures optimal DNS performance. References:

<https://docs.fortinet.com/document/fortigate/7.0.0/sd-wan/19662/sd-wan>

NEW QUESTION # 64

Refer to the exhibits.

Exhibit A

FORTIAP 431F	
Hardware	
Hardware Type	Indoor AP
Number of Radios	3 + 1 BLE
Number of Antennas	5 Internal + 1 BLE Internal
Antenna Type and Peak Gain	PIFA: 4 dBi for 2.4 GHz, 5 dBi for 5 GHz
Maximum Data Rate	Radio 1: up to 1147 Mbps Radio 2: up to 2402 Mbps Radio 3: scan only
Bluetooth Low Energy Radio	Bluetooth scanning and iBeacon advertisement @ 6 dBm max TX power
Interfaces	1x 100/1000/2500 Base-T RJ45, 1 x 10/100/1000 Base-T RJ45, 1x Type A USB, 1x RS-232 RJ45 Serial Port
Power over Ethernet (PoE)	• 802.3at PoE default • 1 port powered by 802.3at or 2 ports powered by 802.3af - Full System functionality + USB support
Maximum Tx Power (Conducted)	Radio 1: 2.4 GHz 24 dBm / 251 mW (4 chains combined)* Radio 2: 5 GHz 23 dBm / 200 mW (4 chains combined)* Radio 3: NA
Environment	
Power Supply	SP-FAP400-PA-XX or GPI-130
Power Consumption (Max)	24.5 W
Directives	Low Voltage Directive • RoHS
UL2043 Plenum Material	No
Mean Time Between Failures	>10 Years
Surge Protection Built In	Yes
Hit-less PoE Failover	Yes

Exhibit B



	FORTISWITCH 224E-POE	FORTISWITCH 124E-FPOE	FORTISWITCH 248E-FPOE
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 ports and 4x GE SFP ports	24x GE RJ45 and 4x GE SFP	48x GE RJ45 ports and 4x GE SFP ports
Dedicated Management 10/100 Port	1	0	1
RJ-45 Serial Console Port	1	1	1
Form Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
Power over Ethernet (PoE) Ports	12 (802.3af/802.3at)	24 (802.3af/at)	48 (802.3af/802.3at)
PoE Power Budget	180 W	370 W	740 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
Retail Price	\$1,000	\$1,250	\$1,500

A customer wants to deploy 12 FortiAP 431F devices on high density conference center, but they do not currently have any PoE switches to connect them to. They want to be able to run them at full power while having network redundancy. From the FortiSwitch models and sample retail prices shown in the exhibit, which build of materials would have the lowest cost, while fulfilling the customer's requirements?

- A. 2x FortiSwitch 224E-POE
- B. 1x FortiSwitch 248EFPOE
- C. 2x FortiSwitch 248E-FPOE
- **D. 2x FortiSwitch 124E-FPOE**

Answer: D

Explanation:

the access point will require about 24.5 W of power and the 124E-FPOE has a Capacity of about 370 meaning $25 \times 12 = 300$ so you left with about 70 W on the switch meaning you can still add two more access point on that switch.

NEW QUESTION # 65

Refer to the exhibit showing a firewall policy configuration.

```

Policies

config firewall policy
  edit 1
    set name "Dev-To-Cloud-Assets"
    set srcintf "port2"
    set dstintf "port4"
    set srcaddr "Dev-Subnet"
    set dstaddr "Dev-Cloud-Assets"
    set action accept
    set schedule "always"
    set service "ALL"
    set fsso disable
    set groups "Dev-Users"
    set nat enable
  next
  edit 2
    set name "Internet-Access"
    set srcintf "port2"
    set dstintf "port4"
    set srcaddr "All-Internal"
    set dstaddr "all"
    set action accept
    set schedule "always"
    set service "ALL"
    set fsso disable
    set nat enable
  next
end

```

To prevent unauthorized access of their cloud assets, an administrator wants to enforce authentication on firewall policy ID 1. What change does the administrator need to make?

```

config user setting
A.     set auth-on-demand always
end

config user setting
B.     set auth-secure-http enable
       set auth-http-basic disable
end

config firewall policy
C.     edit 1
       set ntlm-guest disable
       next
end

config firewall policy
D.     edit 1
       set fsso enable
       next
end

```

- A. Option C
- **B. Option A**
- C. Option D
- D. Option B

Answer: B

Explanation:

<https://docs.fortinet.com/document/fortigate/6.2.0/new-features/238665/authentication-policy-extensions>

NEW QUESTION # 66

Refer to the exhibit.

Exhibit C

```

fgt200f_primary # config sys global
fgt200f_primary (global) # set private-data-encryption enable
fgt200f_primary (global) # end
Please type your private data encryption key (32 hexadecimal numbers):
0ff8721feda9375142377744b562ac62
Please re-enter your private data encryption key (32 hexadecimal numbers) again:
0ff8721feda9375142377744b562ac62
Your private data encryption key is accepted.
fgt200f_primary #

```

A customer has deployed a FortiGate 200F high-availability (HA) cluster that contains a TPM chip. The exhibit shows output from the FortiGate CLI session where the administrator enabled TPM.

Following these actions, the administrator immediately notices that both FortiGate high availability (HA) status and FortiManager status for the FortiGate are negatively impacted.

What are the two reasons for this behavior? (Choose two.)

- A. The private-data-encryption key entered on the primary did not match the value that the TPM expected.
- B. The FortiGate has not finished the auto-update process to synchronize the new configuration to FortiManager yet.
- C. TPM functionality is not yet compatible with FortiGate HA D The administrator needs to manually enter the hex private data encryption key in FortiManager
- D. Configuration for TPM is not synchronized between FortiGate HA cluster members.

Answer: A,D

Explanation:

The two reasons for the negative impact on the FortiGate HA status and FortiManager status after enabling TPM are:

The private-data-encryption key entered on the primary unit did not match the value that the TPM expected. This could happen if the TPM was previously enabled and then disabled, and the key was changed in between. The TPM will reject the new key and cause an error in the configuration synchronization.

Configuration for TPM is not synchronized between FortiGate HA cluster members. Each cluster member must have the same private-data-encryption key to form a valid HA cluster and synchronize their configurations. However, enabling TPM on one unit does not automatically enable it on the other units, and the key must be manually entered on each unit. To resolve these issues, the administrator should disable TPM on all units, clear the TPM data, and then enable TPM again with the same private-data-encryption key on each unit. Reference: <https://docs.fortinet.com/document/fortigate/6.4.0/cookbook/103437/inbound-ssl-inspection> <https://docs.fortinet.com/document/fortigate/6.4.0/cookbook/103438/application-detection-on-ssl-offloaded-traffic>

NEW QUESTION # 67

A customer's cybersecurity department needs to implement security for the traffic between two VPCs in AWS, but these belong to different departments within the company. The company uses a single region for all their VPCs.

Which two actions will achieve this requirement while keeping separate management of each department's VPC? (Choose two.)

- A. Create a transit VPC with a FortiGate HA cluster, connect to the other two using VPC peering, and use routing tables to force traffic through the FortiGate cluster.
- B. Create a VPC with a FortiGate auto-scaling group with a Transit Gateway attached to the three VPC to force routing through the FortiGate cluster
- C. Create an IAM account for the cybersecurity department to manage both existing VPC, create a FortiGate HA Cluster on each VPC and IPSEC VPN to force traffic between the VPCs through the FortiGate clusters
- D. Migrate all the instances to the same VPC and create IAM accounts for each department, then implement a new subnet for a FortiGate auto-scaling group and use routing tables to force the traffic through the FortiGate cluster.

Answer: A,B

Explanation:

To implement security for the traffic between two VPCs in AWS, while keeping separate management of each department's VPC, two possible actions are:

* Create a transit VPC with a FortiGate HA cluster, connect to the other two using VPC peering, and use routing tables to force traffic through the FortiGate cluster. This option allows the cybersecurity department to manage the transit VPC and apply security policies on the FortiGate cluster, while the other departments can manage their own VPCs and instances. The VPC peering connections enable direct communication between the VPCs without using public IPs or gateways. The routing tables can be configured to direct all inter-VPC traffic to the transit VPC.

* Create a VPC with a FortiGate auto-scaling group with a Transit Gateway attached to the three VPCs to force routing through the FortiGate cluster. This option also allows the cybersecurity department to manage the security VPC and apply security policies on the FortiGate cluster, while the other departments can manage their own VPCs and instances. The Transit Gateway acts as a network hub that connects multiple VPCs and on-premises networks. The routing tables can be configured to direct all inter-VPC traffic to the security VPC. References: <https://docs.fortinet.com/document/fortigate-public-cloud/7.2.0/aws-administration-guide/506140/connecting-a-local-fortigate-to-an-aws-vpc-vpn>

<https://docs.fortinet.com/document/fortigate-public-cloud/7.0.0/sd-wan-architecture-for-enterprise/166334/sd-wan-configuration>

NEW QUESTION # 68

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