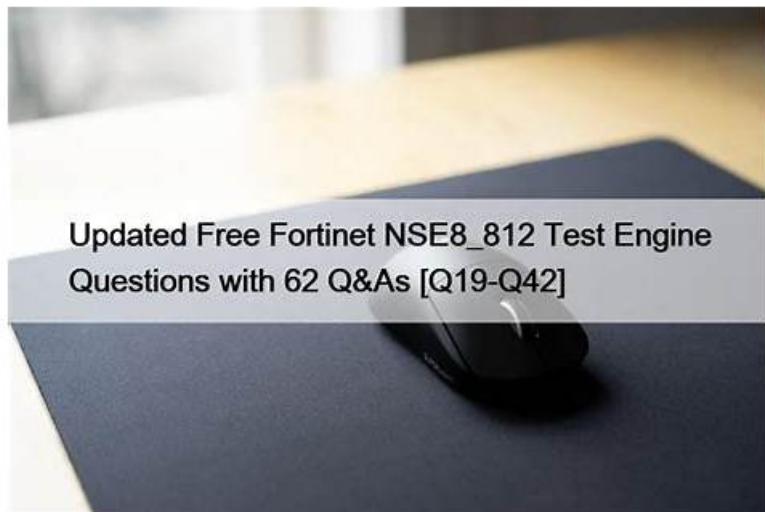


# Real And Valid NSE8\_812 Exam Questions & Answers



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## **Fortinet NSE 8 - Written Exam (NSE8\_812) Sample Questions (Q101-Q106):**

### **NEW QUESTION # 101**

Refer to the exhibits.

Exhibit A

FORTIAP 431F	
<b>Hardware</b>	
<b>Hardware Type</b>	Indoor AP
<b>Number of Radios</b>	3 + 1 BLE
<b>Number of Antennas</b>	5 Internal + 1 BLE Internal
<b>Antenna Type and Peak Gain</b>	PIFA: 4 dBi for 2.4 GHz, 5 dBi for 5 GHz
<b>Maximum Data Rate</b>	Radio 1: up to 1147 Mbps Radio 2: up to 2402 Mbps Radio 3: scan only
<b>Bluetooth Low Energy Radio</b>	Bluetooth scanning and iBeacon advertisement @ 6 dBm max TX power
<b>Interfaces</b>	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
<b>Power over Ethernet (PoE)</b>	<ul style="list-style-type: none"> <li>• 802.3at PoE default</li> <li>• 1 port powered by 802.3at or 2 ports powered by 802.3af</li> <li>• Full System functionality + USB support</li> </ul>
<b>Maximum Tx Power (Conducted)</b>	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
<b>Environment</b>	
<b>Power Supply</b>	SP-FAP400-PA-XX or GPI-130
<b>Power Consumption (Max)</b>	24.5 W
<b>Directives</b>	Low Voltage Directive • RoHS
<b>UL2043 Plenum Material</b>	No
<b>Mean Time Between Failures</b>	>10 Years
<b>Surge Protection Built In</b>	Yes
<b>Hit-less PoE Failover</b>	Yes

Exhibit B

	FORTISWITCH 224E-POE	FORTISWITCH 124E-FPOE	FORTISWITCH 248E-FPOE
<b>Hardware Specifications</b>			
<b>Total Network Interfaces</b>	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
<b>Dedicated Management 10/100 Port</b>	1	0	1
<b>RJ-45 Serial Console Port</b>	1	1	1
<b>Form Factor</b>	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount
<b>Power over Ethernet (PoE) Ports</b>	12 (802.3af/802.3at)	24 (802.3af/at)	48 (802.3af/802.3at)
<b>PoE Power Budget</b>	180 W	370 W	740 W
<b>Mean Time Between Failures</b>	> 10 years	> 10 years	> 10 years
<b>Retail Price</b>	\$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. 1x FortiSwitch 248EFPOE
- **B. 2x FortiSwitch 124E-FPOE**
- C. 2x FortiSwitch 248E-FPOE
- D. 2x FortiSwitch 224E-POE

**Answer: B**

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 # 102

Refer to the exhibit.



You have deployed a security fabric with three FortiGate devices as shown in the exhibit. FGT\_2 has the following configuration:

```
FORTINET
config system csf
  set fabric-object-unification local
end
```

FGT\_1 and FGT\_3 are configured with the default setting. Which statement is true for the synchronization of fabric-objects?

- A. Objects from the root FortiGate will only be synchronized to FGT\_2.
- B. Objects from the root FortiGate will only be synchronized to FGT\_3.
- C. Objects from the FortiGate FGT\_2 will be synchronized to the upstream FortiGate.
- D. Objects from the root FortiGate will not be synchronized to any downstream FortiGate.

**Answer: D**

Explanation:

The fabric-object-unification setting on FGT\_2 is set to local, which means that objects will not be synchronized to any other FortiGate devices in the security fabric. The default setting for fabric-object-unification is default, which means that objects will be synchronized from the root FortiGate to all downstream FortiGate devices.

Since FGT\_2 is not the root FortiGate and the fabric-object-unification setting is set to local, objects from the root FortiGate will not be synchronized to FGT\_2.

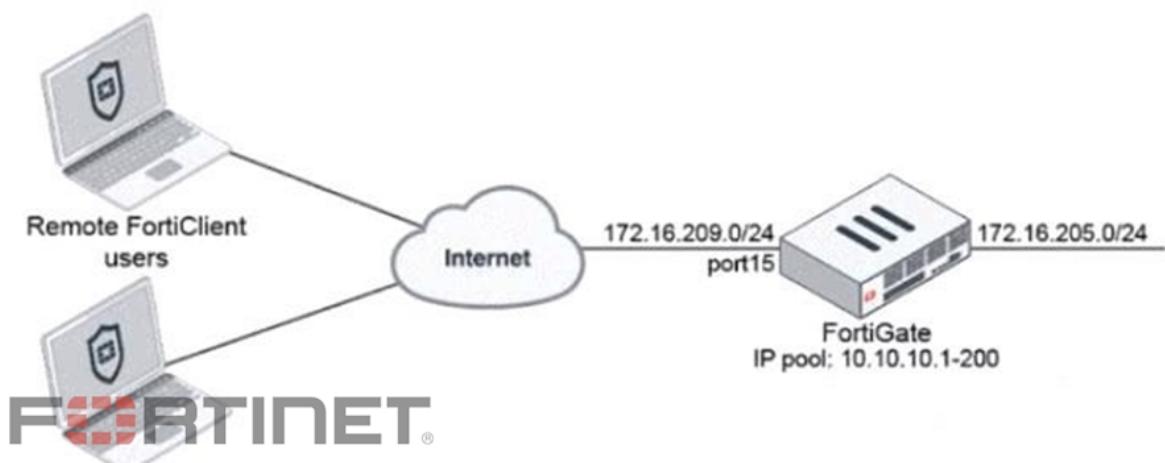
Reference:

Synchronizing objects across the Security Fabric: <https://docs.fortinet.com/document/fortigate/6.4.0/administration-guide/880913/synchronizing-objects-across-the-security-fabric>

### NEW QUESTION # 103

Refer to the exhibits, which show a network topology and VPN configuration.

## Topology



## Configuration

```
config vpn ipsec phasel-interface
    edit "vpn_endpts"
        set type dynamic
        set interface "port15"
        set mode aggressive
        set peertype any
        set net-device disable
        set mode-cfg enable
        set proposal aes128-sha256 aes256-sha256 aes128-sha1 aes256-sha1
        set ipd on-idle
        set dhgrp 5
        set xauthtype auto
        set authusgrp "vpngroup"
        set assign-ip-from name
        set ipv4-netmask 255.255.255.0
        set dns-mode auto
        set ipv4-split-include "172.16.205.0"
        set ipv4-name "client_range"
        set save-password enable
        set psksecret "nse8exam"
        set dpd-retryinterval 60
    next
end

config system link-monitor
    edit "1"
        set srcintf "vpn_endpts"
        set server-type dynamic
    next
end
```

A network administrator has been tasked with modifying the existing dial-up IPsec VPN infrastructure to detect the path quality to the remote endpoints.

After applying the configuration shown in the configuration exhibit, the VPN clients can still connect and access the protected 172.16.205.0/24 network, but no SLA information shows up for the client tunnels when issuing the `diagnose sys link-monitor tunnel all` command on the FortiGate CLI.

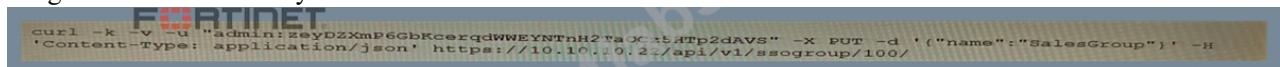
What is wrong with the configuration?

- A. The admin needs to disable the mode-cfg setting.
- B. It is necessary to use the IKEv2 protocol in this situation.
- C. SLA link monitoring does not work with the net-device setting.
- D. IPsec Phase1 Interface has to be configured in IPsec main mode.

**Answer: C**

## NEW QUESTION # 104

A customer wants to use the FortiAuthenticator REST API to retrieve an SSO group called SalesGroup. The following API call is being made with the 'curl' utility:



Which two statements correctly describe the expected behavior of the FortiAuthenticator REST API? (Choose two.)

- A. This API call will fail because it requires that API version 2
- B. The syntax is incorrect because the API calls needs the get method.
- C. If the REST API web service access key is lost, it cannot be retrieved and must be changed.
- D. Only users with the "Full permission" role can access the REST API

**Answer: A,B**

Explanation:

To retrieve an SSO group called SalesGroup using the FortiAuthenticator REST API, the following issues need to be fixed in the API call:

The API version should be v2, not v1, as SSO groups are only supported in version 2 of the REST API.

The HTTP method should be GET, not POST, as GET is used to retrieve information from the server, while POST is used to create or update information on the server. Therefore, a correct API call would look like this: curl -X GET -H "Authorization: Bearer <token>" https://fac.example.com/api/v2/sso/groups/SalesGroup References:

<https://docs.fortinet.com/document/fortiauthenticator/6.4.1/rest-api-solution-guide/927310/introduction>

<https://docs.fortinet.com/document/fortiauthenticator/6.4.1/rest-api-solution-guide/927311/sso-groups>

## NEW QUESTION # 105

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 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
- B. 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.
- C. 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.
- D. 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

**Answer: C,D**

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. Reference: <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 # 106

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