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Fortinet NSE8_812 exam covers a range of topics, including advanced security technologies, network security design, advanced threat protection, and security management. Candidates are required to demonstrate their knowledge of these topics through a series of multiple-choice questions and scenarios that test their ability to apply their knowledge in real-world situations. Passing NSE8_812 exam is a testament to an individual's expertise in Fortinet security and can open up numerous career opportunities in the field.

Fortinet NSE8_812 Certification Exam is designed to test the skills and knowledge of network security professionals who are looking to advance their careers to the next level. Fortinet NSE 8 - Written Exam (NSE8_812) certification is part of the Fortinet Network Security Expert (NSE) program, which is a comprehensive training and certification program that covers all aspects of network security. The NSE8_812 Exam focuses on the advanced skills required to design, implement, and manage complex network security solutions using Fortinet products.

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Fortinet NSE8_812 exam is an advanced level certification exam that is designed to test the skills of experienced network security professionals. NSE8_812 exam is part of the Fortinet Network Security Expert (NSE) program, which is a comprehensive training and certification program that is designed to develop the skills and knowledge of network security professionals. The NSE8_812 Exam is focused on testing the knowledge and skills of candidates in the areas of network security architecture, design, and implementation.

Fortinet NSE 8 - Written Exam (NSE8_812) Sample Questions (Q14-Q19):

NEW QUESTION # 14

Review the VPN configuration shown in the exhibit.

```
config vpn ipsec fec
  edit "fecprofile"
    config mappings
      edit 1
        set base 8
        set redundant 2
        set packet-loss-threshold 10
      next
      edit 2
        set base 9
        set redundant 3
        set bandwidth-up-threshold 450000
      next
      edit 3
        set base 5
        set redundant 3
        set bandwidth-bi-threshold 5000000
      next
    end
  next
end

config vpn ipsec phase1-interface
  edit "vd1-p1"
    set fec-health-check "1"
    set fec-mapping-profile "fecprofile"
    set fec-base 10
    set fec-redundant 1
  next
end
```

What is the Forward Error Correction behavior if the SD-WAN network traffic download is 500 Mbps and has 8% of packet loss in the environment?

- A. 3 redundant packet for every 9 base packets
- B. 2 redundant packet for every 8 base packets
- C. 3 redundant packet for every 5 base packets
- **D. 1 redundant packet for every 10 base packets**

Answer: D

Explanation:

The FEC configuration in the exhibit specifies that if the packet loss is greater than 10%, then the FEC mapping will be 8 base packets and 2 redundant packets. The download bandwidth of 500 Mbps is not greater than 950 Mbps, so the FEC mapping is not overridden by the bandwidth setting. Therefore, the FEC behavior will be 2 redundant packets for every 8 base packets.

Here is the explanation of the FEC mappings in the exhibit:

* Packet loss greater than 10%: 8 base packets and 2 redundant packets.

* Upload bandwidth greater than 950 Mbps: 9 base packets and 3 redundant packets.

The mappings are matched from top to bottom, so the first mapping that matches the conditions will be used.

In this case, the first mapping matches because the packet loss is greater than 10%. Therefore, the FEC behavior will be 2 redundant packets for every 8 base packets.

NEW QUESTION # 15

What is the benefit of using FortiGate NAC LAN Segments?

- A. It provides support for IGMP snooping between hosts within the same VLAN
- B. It allows for assignment of dynamic address objects matching NAC policy.
- **C. It provides physical isolation without changing the IP address of hosts.**
- D. It provides support for multiple DHCP servers within the same VLAN.

Answer: C

Explanation:

FortiGate NAC LAN Segments are a feature that allows users to assign different VLANs to different LAN segments without changing the IP address of hosts or bouncing the switch port. This provides physical isolation while maintaining firewall sessions and avoiding DHCP issues. One benefit of using FortiGate NAC LAN Segments is that it allows for assignment of dynamic address objects matching NAC policy. This means that users can create firewall policies based on dynamic address objects that match the NAC policy criteria, such as device type, OS type, MAC address, etc. This simplifies firewall policy management and enhances security by applying different security profiles to different types of devices. References: <https://docs.fortinet.com/document/fortigate/7.0.0/new-features/856212/nac-lan-segments-7-0-1>

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NEW QUESTION # 16

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. 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. 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.
- **D. 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.**

Answer: B,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 # 17

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:

```
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 FortiGate FGT_2 will be synchronized to the upstream FortiGate.
- B. Objects from the root FortiGate will only be synchronized to FGT_2.
- C. Objects from the root FortiGate will only be synchronized to FGT_3.
- D. Objects from the root FortiGate will not be synchronized to any downstream FortiGate.

Answer: C

Explanation:

<https://docs.fortinet.com/document/fortigate/6.4.0/new-features/520820/improvements-to-synchronizing-objects-across-the-security-fabric-6-4-4>

NEW QUESTION # 18

Refer to the exhibit containing the configuration snippets from the FortiGate. Customer requirements:

```
config vpn ssl settings
set https-redirect enable
set servercert "FortiGateLE"
set tunnel-ip-pools "SSLVPN_TUNNEL_ADDR1"
set tunnel-ipv6-pools "SSLVPN_TUNNEL_IPv6_ADDR1"
set port 443
set source-interface "port1"
set source-address "all"
set source-address6 "all"
set default-portal "no-access"
end

config system global
set admin-port 80
end

config vpn certificate local
edit "FortiGateLE"
set password ENC <redacted>
set range global
set enroll-protocol acme2
set acme-domain "datacenter.acmecorp.com"
set acme-email "administrator@acmecorp.com"
next
end

config system acme
set interface "port1"
config accounts
edit "ACME-.letsencrypt.org-0000"
set status "valid"
set ca_url "https://acme-
```

```

v02.api.letsencrypt.org/directory"
    set email "administrator@acmecorp.com"
end
end

config firewall address
    edit "h-fortigate_public"
        set subnet 129.11.1.100 255.255.255.255
    next
end

config firewall vip
    edit "fortimail_secure_web_admin"
        set mappedip "10.100.1.5"
        set extintf "port1"
        set portforward enable
        set extport 30443
        set mappedport 443
    next
    edit "fortimail_web_admin"
        set mappedip "10.100.1.5"
        set extintf "port1"
        set portforward enable
        set extport 30080
        set mappedport 80
    next
end

config firewall policy
    edit 1
        set name "Allow Inbound FortiMail"
        set srcintf "port1"
        set dstintf "port2"
        set action accept
        set srcaddr "all"
        set dstaddr " fortimail_secure_web_admin " "
fortimail_web_admin "
        set schedule "always"
        set service "HTTP" "HTTPS"
        set ssl-ssh-profile "no-inspection"
    next
end

```

* SSLVPN Portal must be accessible on standard HTTPS port (TCP/443)

* Public IP address (129.11.1.100) is assigned to port1

* Datacenter.acmecorp.com resolves to the public IP address assigned to port1 The customer has a Let's Encrypt certificate that is going to expire soon and it reports that subsequent attempts to renew that certificate are failing.

Reviewing the requirement and the exhibit, which configuration change below will resolve this issue?

• A.

```

config firewall policy
    edit 1
        append dstaddr "h-fortigate_public"
    next
end

```

• B.

```

config system global
    set admin-port 8080
end

```

• C.

```

config vpn ssl settings
    set https-redirect disable
end

```


- D.

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