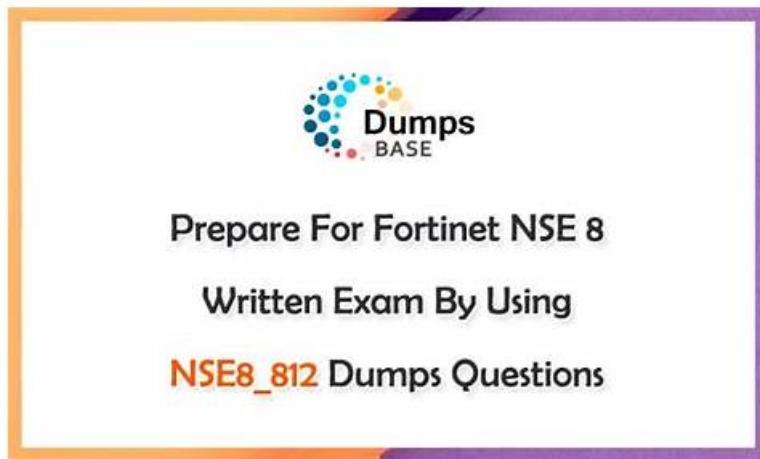


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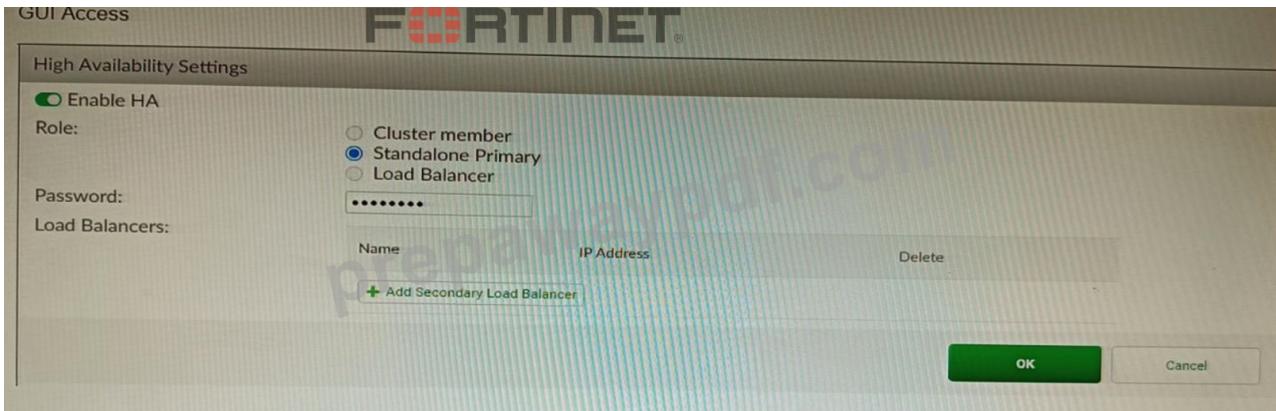
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## Fortinet NSE 8 - Written Exam (NSE8\_812) Sample Questions (Q86-Q91):

### NEW QUESTION # 86

Refer to the exhibit, which shows the high availability configuration for the FortiAuthenticator (FAC1).



Based on this information, which statement is true about the next FortiAuthenticator (FAC2) member that will join an HA cluster with this FortiAuthenticator (FAC1)?

- A. FSSO sessions from FAC1 will be synchronized to FAC2.
- B. The FortiToken license will need to be installed on the FAC2.
- C. FAC2 can have its HA interface on a different network than FAC1.
- D. FAC2 can only process requests when FAC1 fails.

**Answer: A**

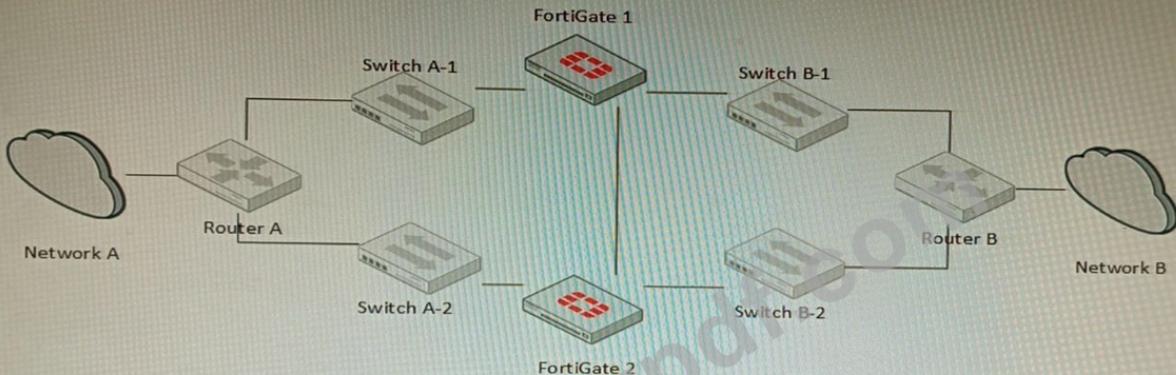
Explanation:

When FortiAuthenticator operates in cluster mode, it provides active-passive failover and synchronization of all configuration and data, including FSSO sessions, between the cluster members. Therefore, if FAC1 is the active unit and FAC2 is the standby unit, any FSSO sessions from FAC1 will be synchronized to FAC2. If FAC1 fails, FAC2 will take over the active role and continue to process the FSSO sessions. Reference: <https://docs.fortinet.com/document/fortiauthenticator/6.1.2/administration-guide/122076/high-availability>

#### NEW QUESTION # 87

Refer to the exhibits.

## Topology



## Configuration

```
FGT-HA-1 # get system ha status
HA Health Status: OK
Model: 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
  FGVMEVGCJNHFYI4A (updated 0 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 ethertype values of the HA packets are 0x8890, 0x8891, and 0x8892
- C. The cluster mode can support a maximum of four (4) FortiGate VMs
- D. **FGVMEVLQOG33WM3D and FGVMEVGCJNHFYI4A share a virtual MAC address.**

**Answer: D**

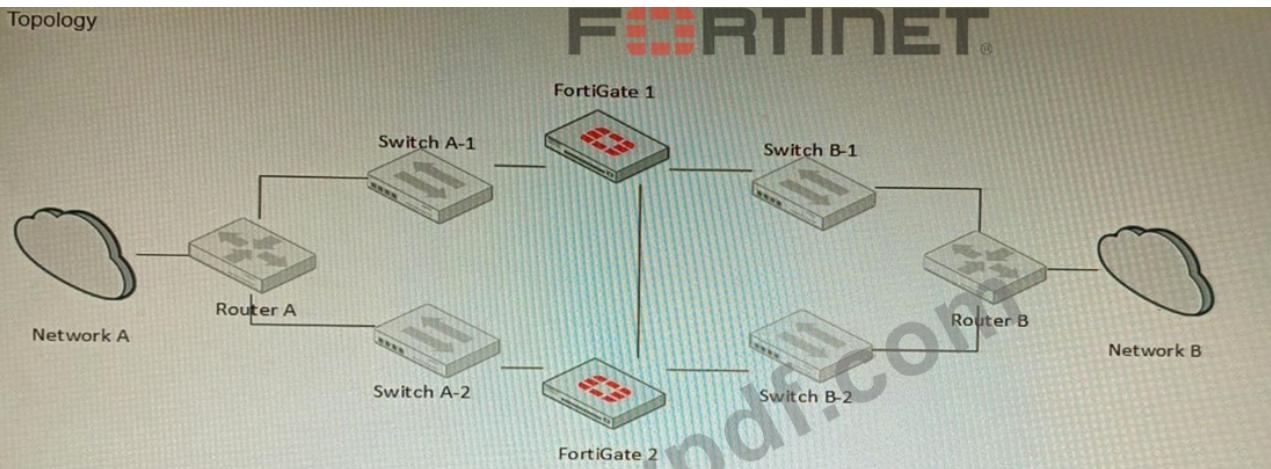
Explanation:

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. References:  
<https://docs.fortinet.com/document/fortigate/6.4.0/cookbook/103439/high-availability-with-two-fortigates>

## NEW QUESTION # 88

Refer to the exhibits.

## Topology



## Configuration

```
FGT-HA-1 # get system ha status
HA Health Status: OK
Model: 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
Configuration -
```

```
FGT-HA-1 # get system ha status
HA Health Status: OK
Model: 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
  FGVMEVGCJNHFYI4A (updated 0 seconds ago): in-svnc
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 ethertype values of the HA packets are 0x8890, 0x8891, and 0x8892

- C. The cluster mode can support a maximum of four (4) FortiGate VMs
- D. FGVMEVLQOG33WM3D and FGVMEVGCJNHFYI4A share a virtual MAC address.

**Answer: A**

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. References:  
<https://docs.fortinet.com/document/fortigate/6.4.0/cookbook/103439/high-availability-with-two-fortigates>

#### NEW QUESTION # 89

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

```

**FORTINET**

\* 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 vpn ssl settings  
 set https-redirect disable  
end
- B.  config system acme  
 set interface "port2"  
end
- C.  config system global  
 set admin-port 8080  
end
- D.

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



**Answer: A**

Explanation:

<https://docs.fortinet.com/document/fortigate/7.4.1/administration-guide/822087/automatically-provision-a-certificate>

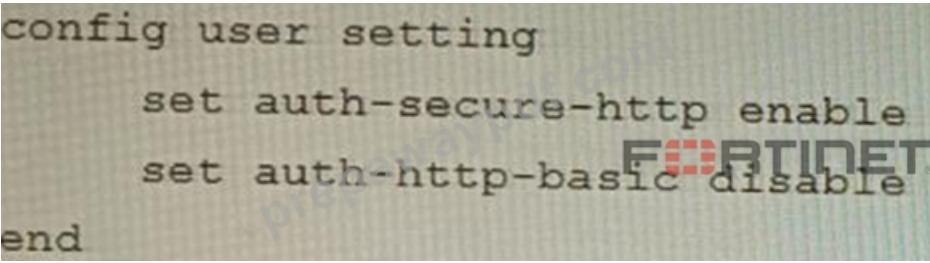
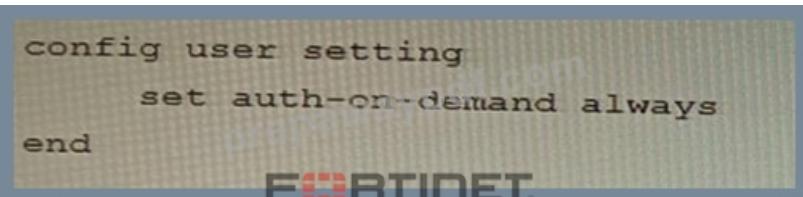
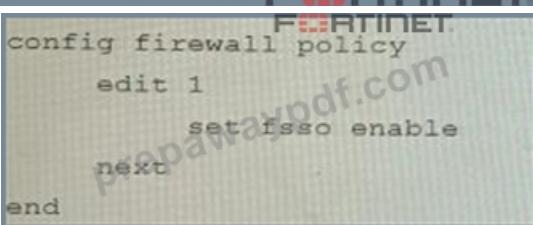
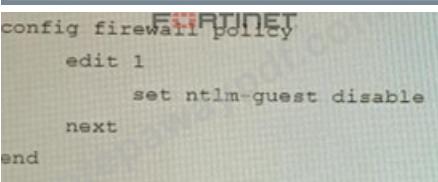
#### NEW QUESTION # 90

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 fssso 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 fssso 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?

- A. 
- B. 
- C. 
- D. 

**Answer: D**

**Explanation:**

The firewall policy in the exhibit allows all traffic from the internal network to the cloud. To enforce authentication on this traffic, the administrator needs to add the auth-on-demand option to the policy. This option will force all users to authenticate before they are allowed to access the cloud.

The following is the correct configuration:

```
config firewall policy
edit 1
set srcintf "internal"
set dstintf "wan1"
set srcaddr "all"
set dstaddr "all"
set service "all"
set action accept
set auth-on-demand enable
```

**References:**

Configuring firewall authentication | FortiGate / FortiOS 7.4.0 - Fortinet Document Library Firewall policy configuration | FortiGate / FortiOS 7.4.0 - Fortinet Document Library

## NEW QUESTION # 91

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