

## NSE4\_FGT-7.2<sup>Q&As</sup>

Fortinet NSE 4 - FortiOS 7.2

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#### **QUESTION 1**

What are two characteristics of FortiGate HA cluster virtual IP addresses? (Choose two.)

- A. Virtual IP addresses are used to distinguish between cluster members.
- B. Heartbeat interfaces have virtual IP addresses that are manually assigned.
- C. The primary device in the cluster is always assigned IP address 169.254.0.1.
- D. A change in the virtual IP address happens when a FortiGate device joins or leaves the cluster.

#### Correct Answer: AD

"FGCP automatically assigns the heartbeat IP addresses based on the serial number of each device. The IP address 169.254.0.1 is assigned to the device with the highest serial number."

"A change in the heartbeat IP addresses may happen when a FortiGate device joins or leaves the cluster."

"The HA cluster uses the heartbeat IP addresses to distinguish the cluster members and synchronize data."

https://networkinterview.com/fortigate-ha-high-availability/

#### **QUESTION 2**

Consider the topology:

Application on a Windows machine FGT--> Telnet to Linux server.

An administrator is investigating a problem where an application establishes a Telnet session to a Linux server over the SSL VPN through FortiGate and the idle session times out after about 90 minutes. The administrator would like to

increase or disable this timeout.

The administrator has already verified that the issue is not caused by the application or Linux server. This issue does not happen when the application establishes a Telnet connection to the Linux server directly on the LAN.

What two changes can the administrator make to resolve the issue without affecting services running through FortiGate? (Choose two.)

A. Set the maximum session TTL value for the TELNET service object.

B. Set the session TTL on the SSLVPN policy to maximum, so the idle session timeout will not happen after 90 minutes.

C. Create a new service object for TELNET and set the maximum session TTL.

D. Create a new firewall policy and place it above the existing SSLVPN policy for the SSL VPN traffic, and set the new TELNET service object in the policy.

Correct Answer: CD



#### **QUESTION 3**

Refer to the exhibit.

```
session info: proto=6 proto_state=02 duration=6 expire=6 timeout=3600 flags=0000
0000 socktype=0 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=may_dirty
statistic(bytes/packets/allow_err): org=180/3/1 reply=264/3/1 tuples=2
tx speed(Bps/kbps): 26/0 rx speed(Bps/kbps): 39/0
orgin->sink: org pre->post, reply pre->post dev=3->5/5->3 gwy=10.0.1.11/0.0.0.0
hook=pre dir=org act=dnat 10.200.3.1:38024->10.200.1.11:80(10.0.1.11:80)
hook=post dir=reply act=snat 10.0.1.11:80->10.200.3.1:38024(10.200.1.11:80)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=8 auth_info=0 chk_client_info=0 vd=0
serial=0001fb06 tos=ff/ff app_list=0 app=0 url_cat=0
pdb link id= 00000000 rpdb svc id=0 ngfwid=n/a
npu_state=0x040000
```

Which contains a session diagnostic output. Which statement is true about the session diagnostic output?

A. The session is in SYN\_SENT state.

- B. The session is in FIN\_ACK state.
- C. The session is in FTN\_WAIT state.
- D. The session is in ESTABLISHED state.

Correct Answer: A

Indicates TCP (proto=6) session in SYN\_SENT state (proto=state=2) https://kb.fortinet.com/kb/viewContent.do?externalId=FD30042

#### **QUESTION 4**

Refer to the exhibit.



Q-FortiGate			IPse		111	Remote-	FortiG	
Phase 2 Selectors	*			Phase 2 Selectors	+			
Name ToRemote	Local Address 0 0 0 0/0 0 0 0	Remote Address 0 0 0 0/0 0 0 0	1	Name ToHQ	Local Address 0.0.0.0/0.0.0.0	Remote Address 0.0.0.0/0.0.0.0	1	
Edit Phase 2 Name	ToRemot		00	Edit Phase 2 Name	ToHQ		0 0	
Comments	Comments		di la	Comments	Comments			
Local Address Remote Address	Subnet	<ul> <li>0.0.0/0.0/0</li> <li>0.0.0/0.0/0</li> </ul>	22.0	Local Address Remote Address	Subnet	<ul> <li>0.0.0/0.0.0</li> <li>0.0.0/0.0.0</li> </ul>		
Phase 2 Proposal Add Encryption AES128 Authentication SHA1 • Enable Replay Detection Enable Perfect Forward Secrecy (PFS) 32 31 30 29 28 27				Phase 2 Proposal Add Encryption AES256 Authentication SHA1 Enable Replay Detection Enable Perfect Forward Secrecy (PFS)				
Diffie-Hellman Group 21 20 19 18 17 16				Diffie-Hellman Grou	IP ■ 21 ■ 20	32       31       30       29       28       27         21       20       19       18       17       16         15       14       5       2       1		
Local Port	All 💌			Local Port	All 🗹			
Remote Port	All 🕑			Remote Port	All 😒			
Protocol	All 🗷			Protocol	All 🗵			
Auto-negotiate				Auto-negotiate	2			
Autokey Keep Alive	8			Autokey Keep Alive				
Key Lifetime	Seconds		•	Key Lifetime	Seconds	•		
Seconds	43200			Seconds	14400			

A network administrator is troubleshooting an IPsec tunnel between two FortiGate devices. The administrator has determined that phase 1 status is up. but phase 2 fails to come up. Based on the phase 2 configuration shown in the exhibit, what configuration change will bring phase 2 up?

- A. On HQ-FortiGate, enable Auto-negotiate.
- B. On Remote-FortiGate, set Seconds to 43200.
- C. On HQ-FortiGate, enable Diffie-Hellman Group 2.
- D. On HQ-FortiGate, set Encryption to AES256.

```
Correct Answer: D
```

Reference: https://docs.fortinet.com/document/fortigate/5.4.0/cookbook/168495

Encryption and authentication algorithm needs to match in order for IPSEC be successfully established.

#### **QUESTION 5**

Which two statements are correct about a software switch on FortiGate? (Choose two.)



- A. It can be configured only when FortiGate is operating in NAT mode
- B. Can act as a Layer 2 switch as well as a Layer 3 router
- C. All interfaces in the software switch share the same IP address
- D. It can group only physical interfaces

Correct Answer: AC

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