NSE4-5.4^{Q&As}

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QUESTION 1

Two devices are in an HA cluster, the device hostnames are STUDENT and REMOTE. Exhibit A shows the command output of diagnose sys session stat for the STUDENT device. Exhibit B shows the command output of diagnose sys session stat for the REMOTE device.

Exhibit A:

```
STUDENT # diagnose sys session stat
misc info:       session_count=166 setup_rate=68 exp_count=0 clash=0
       memory_tension_drop=0 ephemeral=0/57344 removeable=0  ha_scan=0
delete=0, flush=0, dev_down=0/0
TCP sessions:
       8 in ESTABLISHED state
       3 in SYN_SENT state
       1 in FIN_WAIT state
       139 in TIME_WAIT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000000
tcp reset stat:
       syncqf=0 acceptqf=0 no-listener=2 data=0 ses=0 ips=0
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

STUDENT # _
```

Exhibit B:

```
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

REMOTE # diagnose sys session stat
Misc info:      session_count=11 setup_rate=0 exp_count=0 clash=4
        memory_tension_drop=0 ephemeral=0/57344 removeable=0  ha_scan=0
delete=0, flush=0, dev_down=0/0
TCP sessions:
        2 in ESTABLISHED state
        1 in SYN_SENT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000000
tcp reset stat:
        syncqf=0 acceptqf=0 no-listener=7 data=0 ses=0 ips=0
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0

REMOTE # _
```

Given the information provided in the exhibits, which of the following statements are correct? (Choose two.)

A. STUDENT is likely to be the master device.

B. Session-pickup is likely to be enabled.

C. The cluster mode is active-passive.

D. There is not enough information to determine the cluster mode.

Correct Answer: AD

QUESTION 2

Examine the following spanning tree configuration on a FortiGate in transparent mode: Which statement is correct for the above configuration?

```
config system interface
edit <interface name>
set stp-forward enable
end
```

A. The FortiGate participates in spanning tree.

B. The FortiGate device forwards received spanning tree messages.

C. Ethernet layer-2 loops are likely to occur.

D. The FortiGate generates spanning tree BPDU frames.

Correct Answer: B

QUESTION 3

Two FortiGate devices fail to form an HA cluster, the device hostnames are STUDENT and REMOTE. Exhibit A shows the command output of show system ha for the STUDENT device. Exhibit B shows the command output of show system ha for the REMOTE device.

Exhibit A: Exhibit B


```
Max number of virtual domains: 10
Virtual domains status: 1 in NAT mode, 0 in TP mode
Virtual domain configuration: disable
FIPS-CC mode: disable
Current HA mode: a-p, master
Branch point: 128
Release Version Information: GA
System time: Thu Jan 24 08:34:19 2013

STUDENT #
STUDENT #
STUDENT #
STUDENT #
STUDENT #
STUDENT # show system ha
config system ha
    set mode a-p
    set password ENC 9FHCYwOJXK9z8w6QkUnUsREWBruVcMJ5NUVE3oV5otyn+4dsgx4CnV1GRJ8
McEECpiT3Z/3dCmIuYIDgW2sE+1AlkHfADOV/r5DkaqGnbj15XV/a
    set hbdev "port2" 50
    set override disable
    set priority 200
end

STUDENT # _
```

```
Log hard disk: Available
Hostname: REMOTE
Operation Mode: NAT
Current virtual domain: root
Max number of virtual domains: 10
Virtual domains status: 1 in NAT mode, 0 in TP mode
Virtual domain configuration: disable
FIPS-CC mode: disable
Current HA mode: a-a, master
Branch point: 128
Release Version Information: GA
System time: Thu Jan 24 08:41:46 2013

REMOTE # show system ha
config system ha
    set mode a-a
    set password ENC 9FHCYwOJXK9z8w6QkUnUsREWBruVcMJ5NUVE3oV5otyn+4ds7YGvl2Cir+8
B6Mf/rGXhOu5lygP+yPgI5SDnSMEz4JlNv4E09skIO0mBQbcgxhSE
    set hbdev "port2" 50
    set session-pickup enable
    set override disable
    set priority 100
end

REMOTE # _
```

Which one of the following is the most likely reason that the cluster fails to form?

A. Password

B. HA mode

C. Heartbeat

D. Override

Correct Answer: B

QUESTION 4

An administrator has formed a high availability cluster involving two FortiGate units.

[Multiple upstream Layer 2 switches] -- [FortiGate HA Cluster] -- [Multiple downstream Layer 2 switches]

The administrator wishes to ensure that a single link failure will have minimal impact upon the overall throughput of traffic through this cluster.

Which of the following options describes the best step the administrator can take? The administrator should_____.

A. Increase the number of FortiGate units in the cluster and configure HA in active-active mode.

B. Enable monitoring of all active interfaces.

C. Set up a full-mesh design which uses redundant interfaces.

D. Configure the HA ping server feature to allow for HA failover in the event that a path is disrupted

Correct Answer: C

QUESTION 5

In a high availability cluster operating in active-active mode, which of the following correctly describes the path taken by the SYN packet of an HTTP session that is offloaded to a slave unit?

A. Request: internal host; slave FortiGate; master FortiGate; Internet; web server.

B. Request: internal host; slave FortiGate; Internet; web server.

C. Request: internal host; slave FortiGate; master FortiGate; Internet; web server.

D. Request: internal host; master FortiGate; slave FortiGate; Internet; web server.

Correct Answer: D

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