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Vendor:Dell

Exam Code:DNDNS-200

Exam Name:Dell Networking Professional Exam

Version:Demo

QUESTION 1

When facing the front of a C-Series switch, in which direction does air flow?

- A. from the right side to left side
- B. from the front side to back side
- C. from the back side to front side
- D. from the left side to right side

Correct Answer: A

QUESTION 2

Exhibit 1



```
switch-1#show interfaces TenGigabitEthernet 0/1
TenGigabitEthernet 0/1 is up, line protocol is up
Hardware is DellForce10Eth, address is 00:01:e8:d6:b0:ee
Current address is 00:01:e8:d6:b0:ee
Pluggable media present, SFP+ type is 10GBASE-SR
Medium is MultiRate, Wavelength is 850nm
SFP+ receive power reading is -2.9576dBm
Interface index is 36242434
Internet address is not set
MTU 12000 bytes, IP MTU 11982 bytes
LineSpeed 10000 Mbit
Flowcontrol rx off tx off
ARP type: ARPA, ARP Timeout 04:00:00
Last clearing of "show interface" counters 1w1d22h
Queueing strategy: fifo
Input Statistics:
 4620896 packets, 785703597 bytes
 737906 64-byte pkts, 1162900 over 64-byte pkts, 2140612 over 127-byte pkts
 523248 over 255-byte pkts, 13937 over 511-byte pkts, 42293 over 1023-byte pkts
 441696 Multicasts, 17364 Broadcasts
 0 runs, 0 giants, 0 throttles
 0 CRC, 0 overrun, 0 discarded
Output Statistics:
 5357043 packets, 819466699 bytes, 0 underruns
 1147812 64-byte pkts, 1153638 over 64-byte pkts, 2471320 over 127-byte pkts
 549463 over 255-byte pkts, 16720 over 511-byte pkts, 18090 over 1023-byte pkts
 974504 Multicasts, 29352 Broadcasts, 4353187 Unicasts
 0 throttles, 0 discarded, 0 collisions, 0 wredrops
Rate info (interval 299 seconds):
Input 00.00 Mbits/sec,          6 packets/sec, 0.00% of line-rate
Output 00.00 Mbits/sec,        7 packets/sec, 0.00% of line-rate
Time since last interface status change: 1w1d22h
```

Exhibit 2



```
switch-2#show interfaces TenGigabitEthernet 0/1
TenGigabitEthernet 0/1 is up, line protocol is up
Hardware is DellForce10Eth, address is 00:01:e8:8b:45:7c
  Current address is 00:01:e8:8b:45:7c
Pluggable media present, SFP+ type is 10GBASE-SR
  Medium is MultiRate, Wavelength is 850nm
  SFP+ receive power reading is -2.5586dBm
Interface index is 35980290
Internet address is not set
MTU 12000 bytes, IP MTU 11982 bytes
LineSpeed 10000 Mbit
Flowcontrol rx off tx off
ARP type: ARPA, ARP Timeout 04:00:00
Last clearing of "show interface" counters 6w2d22h
Queueing strategy: fifo
Input Statistics:
  7851946701 packets, 7073254994738 bytes
  2 64-byte pkts, 3329880169 over 64-byte pkts, 20377433 over 127-byte pkts
  15024372 over 255-byte pkts, 46838230 over 511-byte pkts, 4439826495 over 1023-byte pkts
  126885 Multicasts, 13850 Broadcasts
  0 runts, 0 giants, 0 throttles
  0 CRC, 0 overrun, 0 discarded
Output Statistics:
  9438265206 packets, 12645632595387 bytes, 0 underruns
  4026058 64-byte pkts, 843634342 over 64-byte pkts, 10252507 over 127-byte pkts
  16352464 over 255-byte pkts, 172076390 over 511-byte pkts, 8391923445 over 1023-byte pkts
  4239743 Multicasts, 522737 Broadcasts, 9433502726 Unicasts
  0 throttles, 0 discarded, 0 collisions, 0 wredrops
Rate info (interval 299 seconds):
  Input 41.00 Mbits/sec,      5439 packets/sec, 0.42% of line-rate
  Output 61.00 Mbits/sec,   5852 packets/sec, 0.62% of line-rate
Time since last interface status change: 6w2d22h
```

Exhibit 3



```
switch-1#show lacp 1
Port-channel 1 admin up, oper down, mode lacp
LACP Fast Switch-Over Disabled
Actor System ID: Priority 32768, Address 000a.000a.000a
Partner System ID: Priority 0, Address 0000.0000.0000
Actor Admin Key 1, Oper Key 1, Partner Oper Key 0, VLT Peer Oper Key 1
LACP LAG 1 is an aggregatable link
LACP LAG 1 is a VLT LAG
```

A - Active LACP, B - Passive LACP, C - Short Timeout, D - Long Timeout
E - Aggregatable Link, F - Individual Link, G - IN_SYNC, H - OUT_OF_SYNC
I - Collection enabled, J - Collection disabled, K - Distribution enabled
L - Distribution disabled, M - Partner Defaulted, N - Partner Non-defaulted,
O - Receiver is in expired state, P - Receiver is not in expired state

```
Port Te 0/1 is enabled, LACP is enabled and mode is lacp
Port State: Not in Bundle
Actor Admin: State ADEHJLMP Key 1 Priority 32768
Oper: State ADEHJLMP Key 1 Priority 32768
Partner is not present
```

Exhibit 4



```
switch-2#show lacp 1
Port-channel 1 admin up, oper down, mode lacp
LACP Fast Switch-Over Disabled
Actor System ID: Priority 32768, Address 000a.000a.000a
Partner System ID: Priority 0, Address 0000.0000.0000
Actor Admin Key 1, Oper Key 1, Partner Oper Key 0, VLT Peer Oper Key 1
LACP LAG 1 is an aggregatable link
LACP LAG 1 is a VLT LAG
```

A - Active LACP, B - Passive LACP, C - Short Timeout, D - Long Timeout
E - Aggregatable Link, F - Individual Link, G - IN_SYNC, H - OUT_OF_SYNC
I - Collection enabled, J - Collection disabled, K - Distribution enabled
L - Distribution disabled, M - Partner Defaulted, N - Partner Non-defaulted,
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```
Port Te 0/1 is enabled, LACP is enabled and mode is lacp
Port State: Not in Bundle
Actor Admin: State ADEHJLMP Key 1 Priority 32768
Oper: State ADEHJLMP Key 1 Priority 32768
Partner is not present
```


Exhibit 5



```
switch-1#show interface switchport Port-channel 1

Codes:  U - Untagged, T - Tagged
        x - Dot1x untagged, X - Dot1x tagged
        G - GVRP tagged, M - Trunk, H - VSN tagged
        i - Internal untagged, I - Internal tagged, v - VLT untagged, V - VLT tagged

Name: Port-channel 1
802.1QTagged: True
Vlan membership:
Q      Vlans
U      1
T      10,200

switch-2#show interface switchport Port-channel 1

Codes:  U - Untagged, T - Tagged
        x - Dot1x untagged, X - Dot1x tagged
        G - GVRP tagged, M - Trunk, H - VSN tagged
        i - Internal untagged, I - Internal tagged, v - VLT untagged, V - VLT tagged

Name: Port-channel 1
802.1QTagged: True
Vlan membership:
Q      Vlans
U      1
T      10,200
```

Refer to the exhibits.

An organization has a network with the following configuration:

*

2x C-Series chassis in a VLT

*

Identical 10Gb line cards in each C-Series chassis

*

A Hyper-V Server directly connected to Te 0/1 on each C-Series chassis

*

A VLT Port-Channel connected to a two port switch independent team on the server used for vSwitch Virtual Machine traffic

The Server Admin reports connectivity issues to the VMs on the server.

*

Virtual Machines cannot ping outside of the local Server and cannot be reached from the LAN.

*

All Virtual Machines are connected to the same vSwitch.

*

All Virtual Machines are able to ping each other internally.

*

All Virtual Machines are tagged in VLAN 10.

*

All Nics on the Hyper-V Server are up. What is causing the ping loss?

A.

VLANs are configured incorrectly between the VLT peers.

B.

LACP is not configured on the server.

C.

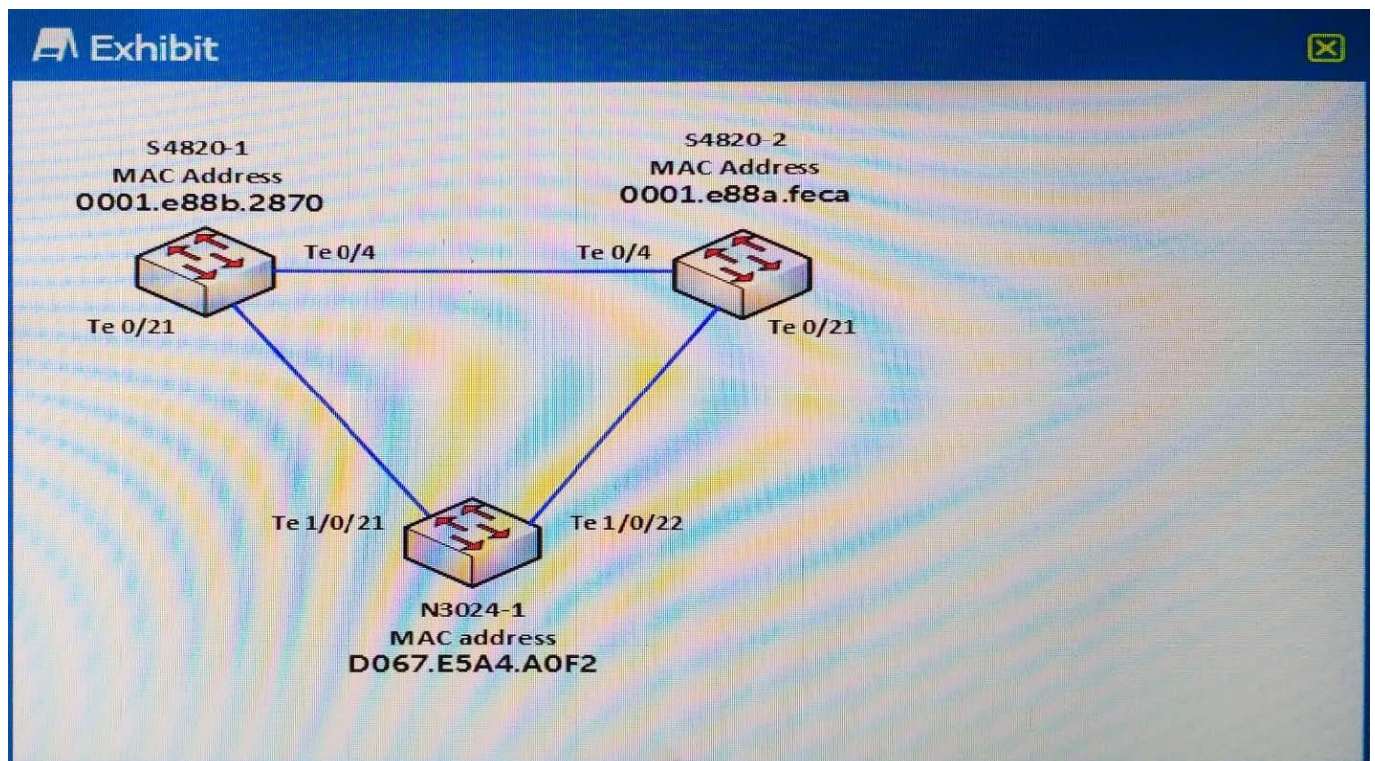
One of the VLT peers is using a lower bandwidth transceiver.

D.

LACP is configured as passive in the VLT domain.

Correct Answer: B

QUESTION 3



Refer to the exhibit.

On switch S4820-2, commands are entered. The associated output is as follows:

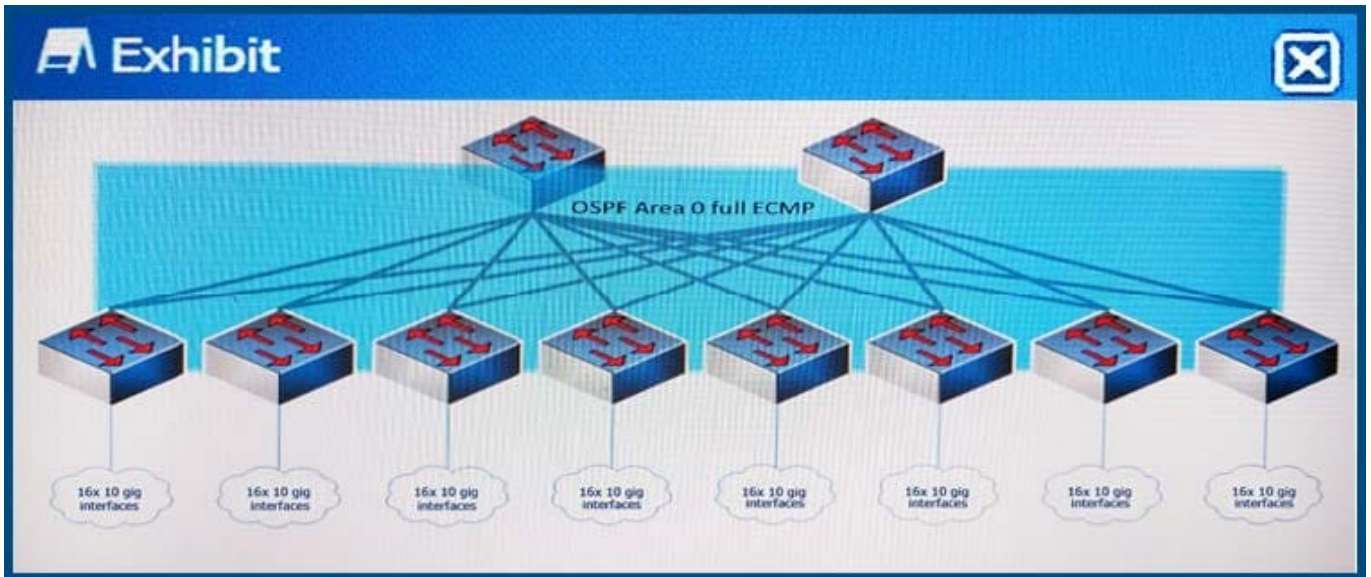
```
S4820-2#show spanning-tree pvst vlan 2
VLAN 2
Root Identifier has priority 4096, Address 0001.e88b.2870
Root Bridge hello time 2, max age 20, forward delay 15
Bridge Identifier has priority 32768, Address 0001.e88a.feca
Configured hello time 2, max age 20, forward delay 15
Current root has priority 4096, Address 0001.e88b.2870
Number of topology changes 2, last change occurred 00:08:11 ago on Te 0/21
S4820-2#show spanning-tree pvst vlan 3
VLAN 3
Root Identifier has priority 20480, Address 0001.e88a.feca
Root Bridge hello time 2, max age 20, forward delay 15
Bridge Identifier has priority 20480, Address 0001.e88a.feca
Configured hello time 2, max age 20, forward delay 15
We are the root of VLAN 3
Current root has priority 20480, Address 0001.e88a.feca
Number of topology changes 2, last change occurred 00:09:43 ago on Te 0/21
```

Which command MUST have been entered previously on switch S4820-1?

- A. S4820-1 (conf-pvst)#vlan 2 bridge-priority 4096
- B. S4820-2 (conf-pvst)#vlan 2 bridge-priority 20480
- C. S4820-1 (conf-pvst)#vlan 3 bridge-priority 20480
- D. S4820-1 (conf-pvst)#vlan 3 bridge-priority 4096

Correct Answer: A

QUESTION 4



Refer to the exhibit.

A customer plans to deploy a two-tier OSPF ECMP Core in the configuration shown. All uplinks to the spine are 40Gbps. All uplinks to the leaves are 10Gbps.

What should be the oversubscription rate for the spine?

- A. 10:1
- B. 2:1
- C. 1:1
- D. 4:1

Correct Answer: B

QUESTION 5

The network engineer powers on a new S-Series switch. None of the devices connected to this new switch are responding to pings.

Which two conditions should the network engineer verify? (Choose two.)

- A. an ARP table is configured
- B. the switch has a default Gateway
- C. ports are not shut down
- D. OSPF is enabled
- E. ports are in switchport mode

Correct Answer: AC

QUESTION 6

Two Dell S-Series Switches are directly connected.

```
SW 1:
interface TenGigabitEthernet 0/37
  ip address 100.1.2.1/30
  no shutdown
```

```
SW 2:
interface TenGigabitEthernet 0/39
  ip address 100.1.2.5/30
  no shutdown
```

```
Dell-1#show int te 0/39
TenGigabitEthernet 0/39 is up, line protocol is up
Hardware is Delleth, address is 00:01:e8:8b:3d:e1
  Current address is 00:01:e8:8b:3d:e1
Pluggable media present, SFP+ type is 10GBASE-CU2M
  Medium is Twinax Copper
Interface index is 1053572
Internet address is 100.1.2.5/30
Mode of IPv4 Address Assignment : MANUAL
DHCP Client-ID(61): 0001e88b3de1
MTU 1554 bytes, IP MTU 1500 bytes
LineSpeed 10000 Mbit
Flowcontrol rx off tx off
ARP type: ARPA, ARP Timeout 04:00:00
Last clearing of "show interface" counters 08:46:01
Queueing strategy: fifo
Input Statistics:
  348 packets, 22812 bytes
  338 64-byte pkts, 10 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  330 Multicasts, 7 Broadcasts, 11 Unicasts
  0 runts, 0 giants, 0 throttles
  0 CRC, 0 overrun, 0 discarded
Output Statistics:
  396 packets, 27682 bytes, 0 underruns
  343 64-byte pkts, 53 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  373 Multicasts, 12 Broadcasts, 11 Unicasts
  0 throttles, 0 discarded, 0 collisions, 0 wredrops
Rate info (interval 299 seconds):
  Input 00.00 Mbits/sec, 0 packets/sec, 0.00% of line-rate
  Output 00.00 Mbits/sec, 0 packets/sec, 0.00% of line-rate
Time since last interface status change: 02:50:53
```

```
Dell-2#show int te 0/37
TenGigabitEthernet 0/37 is up, line protocol is up
Hardware is Delleth, address is 00:01:e8:8b:3e:44
  Current address is 00:01:e8:8b:3e:44
Pluggable media present, SFP+ type is 10GBASE-CU2M
  Medium is Twinax Copper
Interface index is 1053316
Internet address is 100.1.2.1/30
Mode of IPv4 Address Assignment : MANUAL
DHCP Client-ID(61): 0001e88b3e44
MTU 1500 bytes, IP MTU 1482 bytes
LineSpeed 10000 Mbit
Flowcontrol rx off tx off
ARP type: ARPA, ARP Timeout 04:00:00
Last clearing of "show interface" counters 2d2h6m
Queueing strategy: fifo
Input Statistics:
  610 packets, 42128 bytes
  542 64-byte pkts, 68 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  587 Multicasts, 12 Broadcasts, 11 Unicasts
  0 runts, 0 giants, 0 throttles
  0 CRC, 0 overrun, 0 discarded
Output Statistics:
  548 packets, 35612 bytes, 0 underruns
  538 64-byte pkts, 10 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  530 Multicasts, 7 Broadcasts, 11 Unicasts
  0 throttles, 0 discarded, 0 collisions, 0 wredrops
Rate info (interval 299 seconds):
  Input 00.00 Mbits/sec, 0 packets/sec, 0.00% of line-rate
  Output 00.00 Mbits/sec, 0 packets/sec, 0.00% of line-rate
Time since last interface status change: 04:34:33
```

```
Dell-1#showlldp neighbors
-----
Loc PortID      Rem Host Name      Rem Port Id      Rem Chassis Id
-----
Te 0/28         -                  TenGigabitEthernet 0/10  00:01:e8:8b:60:9b
Te 0/35         -                  TenGigabitEthernet 0/17  00:01:e8:8b:60:05
Te 0/39         -                  TenGigabitEthernet 0/37  00:01:e8:8b:3e:42
```

```

SW 1:
interface TenGigabitEthernet 0/37
  ip address 100.1.2.1/30
  no shutdown
SW 2:
interface TenGigabitEthernet 0/39
  ip address 100.1.2.5/30
  no shutdown

```

```

Dell-1#show int te 0/39
TenGigabitEthernet 0/39 is up, line protocol is up
Hardware is DellEth, address is 00:01:e8:8b:3d:e1
  Current address is 00:01:e8:8b:3d:e1
Pluggable media present, SFP+ type is 10GBASE-CU2M
  Medium is Twinax Copper
Interface index is 1053572
Internet address is 100.1.2.5/30
Mode of IPv4 Address Assignment : MANUAL
DHCP Client-ID(61): 0001e88b3de1
MTU 1554 bytes, IP MTU 1500 bytes
LineSpeed 10000 Mbit
Flowcontrol rx off tx off
ARP type: ARPA, ARP Timeout 04:00:00
Last clearing of "show interface" counters 08:46:01
Queueing strategy: fifo
Input Statistics:
  348 packets, 22812 bytes
  338 64-byte pkts, 10 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  330 Multicasts, 7 Broadcasts, 11 Unicasts
  0 runts, 0 giants, 0 throttles
  0 CRC, 0 overrun, 0 discarded
Output Statistics:
  396 packets, 27682 bytes, 0 underruns
  343 64-byte pkts, 53 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  373 Multicasts, 12 Broadcasts, 11 Unicasts
  0 throttles, 0 discarded, 0 collisions, 0 wredrops
Rate info (interval 299 seconds):
  Input 00.00 Mbits/sec,      0 packets/sec, 0.00% of line-rate
  Output 00.00 Mbits/sec,    0 packets/sec, 0.00% of line-rate
Time since last interface status change: 02:50:53

```

```

Dell-2#show int te 0/37
TenGigabitEthernet 0/37 is up, line protocol is up
Hardware is DellEth, address is 00:01:e8:8b:3e:44
  Current address is 00:01:e8:8b:3e:44
Pluggable media present, SFP+ type is 10GBASE-CU2M
  Medium is Twinax Copper
Interface index is 1053316
Internet address is 100.1.2.1/30
Mode of IPv4 Address Assignment : MANUAL
DHCP Client-ID(61): 0001e88b3e44
MTU 1500 bytes, IP MTU 1482 bytes
LineSpeed 10000 Mbit
Flowcontrol rx off tx off
ARP type: ARPA, ARP Timeout 04:00:00
Last clearing of "show interface" counters 2d2h6m
Queueing strategy: fifo
Input Statistics:
  610 packets, 42128 bytes
  542 64-byte pkts, 68 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  587 Multicasts, 12 Broadcasts, 11 Unicasts
  0 runts, 0 giants, 0 throttles
  0 CRC, 0 overrun, 0 discarded
Output Statistics:
  548 packets, 35612 bytes, 0 underruns
  538 64-byte pkts, 10 over 64-byte pkts, 0 over 127-byte pkts
  0 over 255-byte pkts, 0 over 511-byte pkts, 0 over 1023-byte pkts
  530 Multicasts, 7 Broadcasts, 11 Unicasts
  0 throttles, 0 discarded, 0 collisions, 0 wredrops
Rate info (interval 299 seconds):
  Input 00.00 Mbits/sec,      0 packets/sec, 0.00% of line-rate
  Output 00.00 Mbits/sec,    0 packets/sec, 0.00% of line-rate
Time since last interface status change: 04:34:33

```

```

Dell-1#show lldp neighbors
Loc PortID      Rem Host Name      Rem Port Id      Rem Chassis Id
-----
Te 0/28         -                  TenGigabitEthernet 0/10  00:01:e8:8b:60:9b
Te 0/35         -                  TenGigabitEthernet 0/17  00:01:e8:8b:60:05
Te 0/39         -                  TenGigabitEthernet 0/37  00:01:e8:8b:3e:42

```

Which statement describes what will happen when a ping is sent from Dell-1 to Dell-2?

- A. Ping will not work because of MTU Mismatch.
- B. Ping will not work because of IP Network Mismatch.
- C. LLDP shows 0/37 is connected to 0/39 and pings will be successful.
- D. Link is Operationally up; therefore, pings will work.

Correct Answer: B

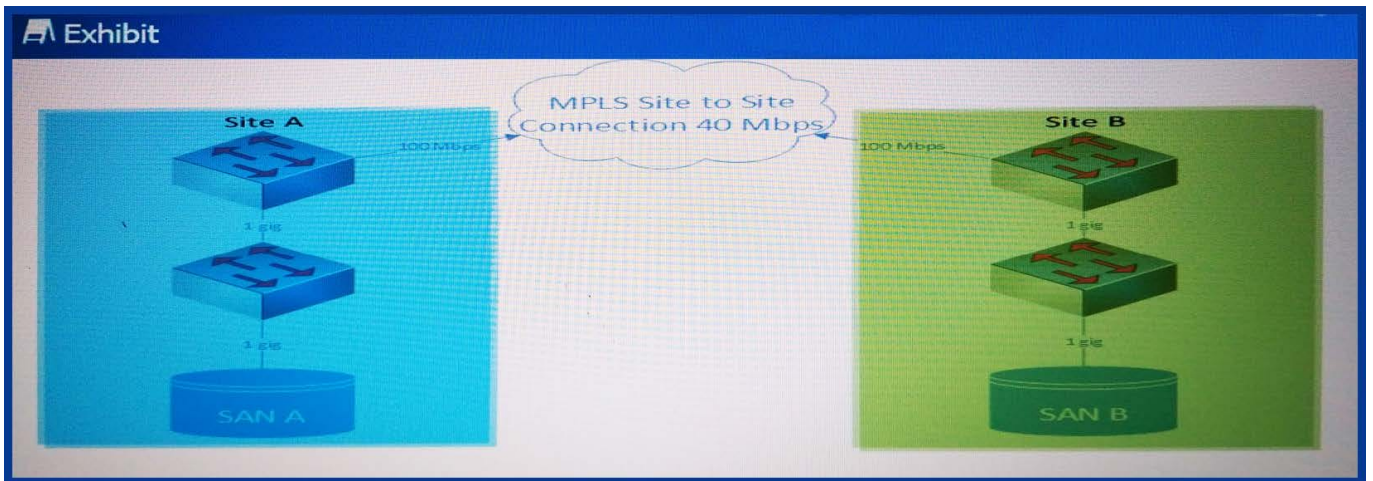
QUESTION 7

The status LED is blinking RED for an N-Series switch. Which system behavior is indicated?

- A. The switch is booting.
- B. A noncritical system error has occurred.
- C. Normal operation is occurring.
- D. A critical system error has occurred.

Correct Answer: B

QUESTION 8



Refer to the exhibit.

A network engineer is called onsite to troubleshoot replication failure and traffic loss. Whenever replication occurs between SAN A and SAN B, users report traffic loss between sites, and replication ultimately fails due to traffic loss.

Based on the topology shown, what is the most likely cause of the traffic loss?

- A. Traffic needs to be policed on the site border routers.
- B. An inbound policy map needs to be defined on the site border that marks the replication traffic with a DSCP value of 46.
- C. An outbound policy map needs to be defined on the site border that marks the replication traffic with a DSCP value of 46.
- D. Traffic needs to be shaped on the site border routers.

Correct Answer: C

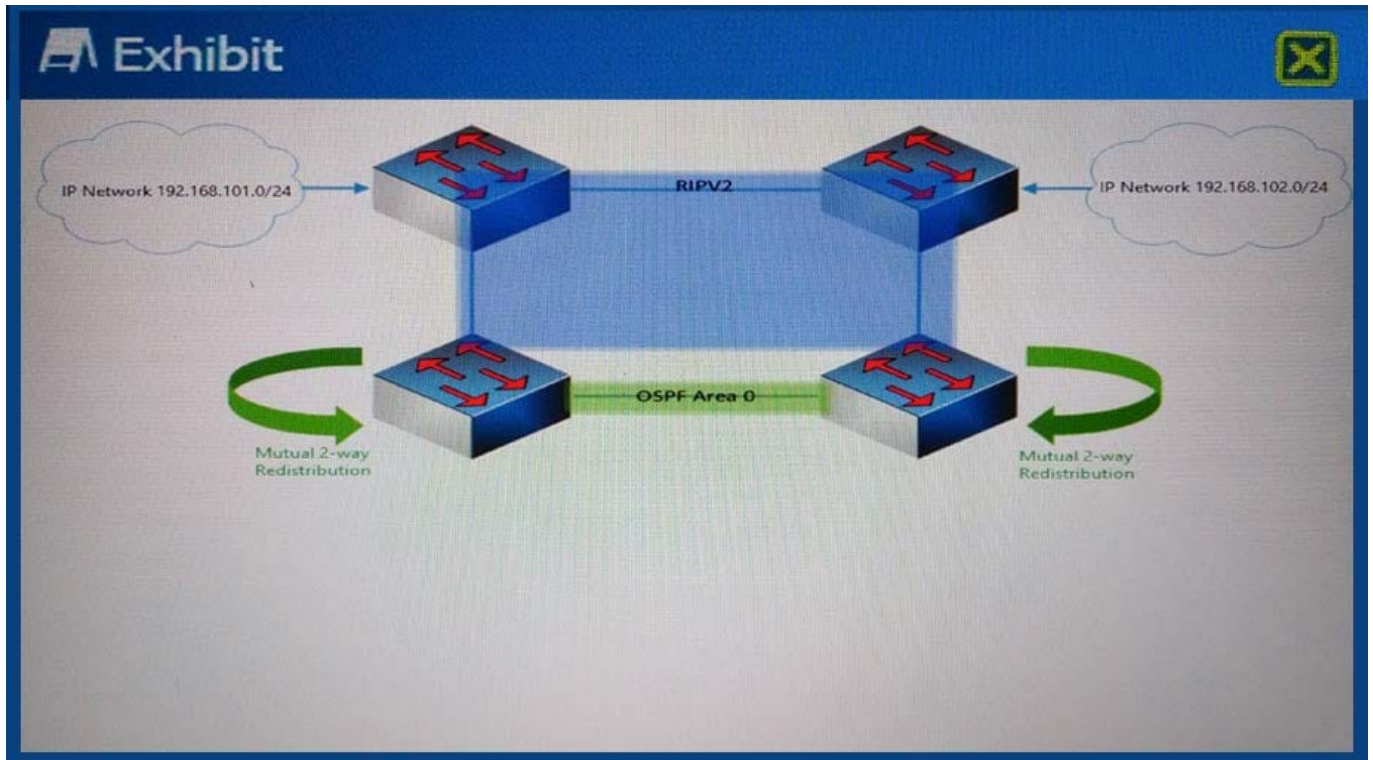
QUESTION 9

A network engineer needs to remove switch 2 from a stack of four switches permanently. Which process should the network engineer use?

- A. Adjust the stacking cables to take the N-Series switch out of the stack, log into the CLI of the stack, and run the following command:
- B. Adjust the stacking cables to take the switch out of the stack. The master switch will automatically remove the switch from the stack.
- C. Adjust the stacking cables to take the switch out of the stack, log into the CLI of the stack, and run the following command:
- D. Adjust the stacking cables to take the switch out of the stack, and reboot the stack.

Correct Answer: A

QUESTION 10



Refer to the exhibit.

Considering the network topology and information shown, what is an issue with end point devices in network 192.168.102.0/24 that try to route to 192.168.101.0/24?

- A. ICMP Redirects
- B. Suboptimal Routing
- C. Routing Loop
- D. Summarization Black Hole

Correct Answer: C

QUESTION 11

Which two management protocols are most secure? (Choose two.)

- A. SNMPv1
- B. IPSec
- C. Telnet
- D. HTTPS
- E. SSH

Correct Answer: DE

QUESTION 12

Which three properties are required for two OSPF router interfaces to establish a neighbor relationship? (Choose three.)

- A. Router interfaces must have the same OSPF timers.
- B. Router interfaces must be on a point-to-point network.
- C. Router interfaces must be in the same area.
- D. Router interfaces must use the same OSPF process ID.
- E. Router interfaces must be on the same primary IP subnet.

Correct Answer: ACE