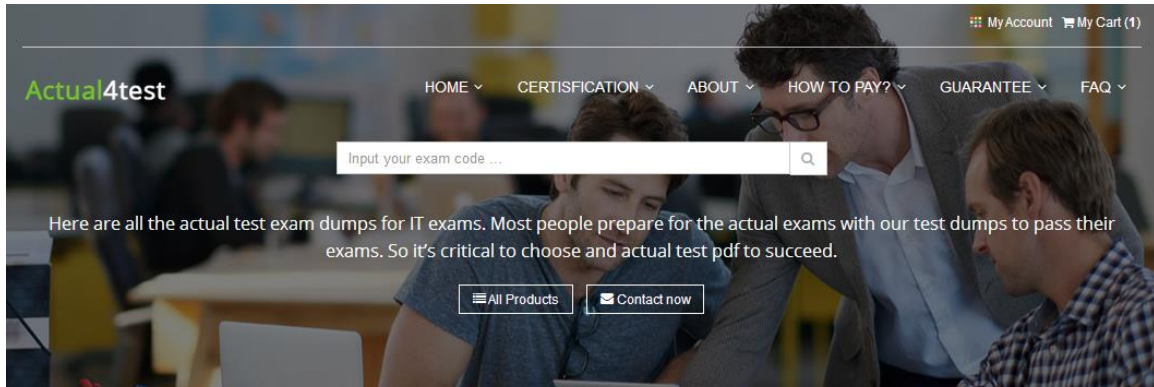


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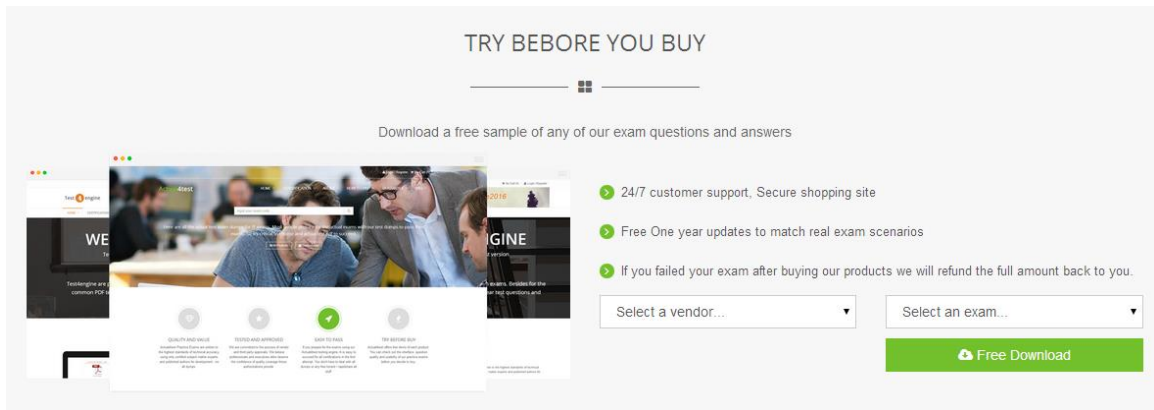
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**Exam** : **300-165**

**Title** : **Implementing Cisco Data  
Center Infrastructure**

**Vendor** : **Cisco**

**Version** : **DEMO**

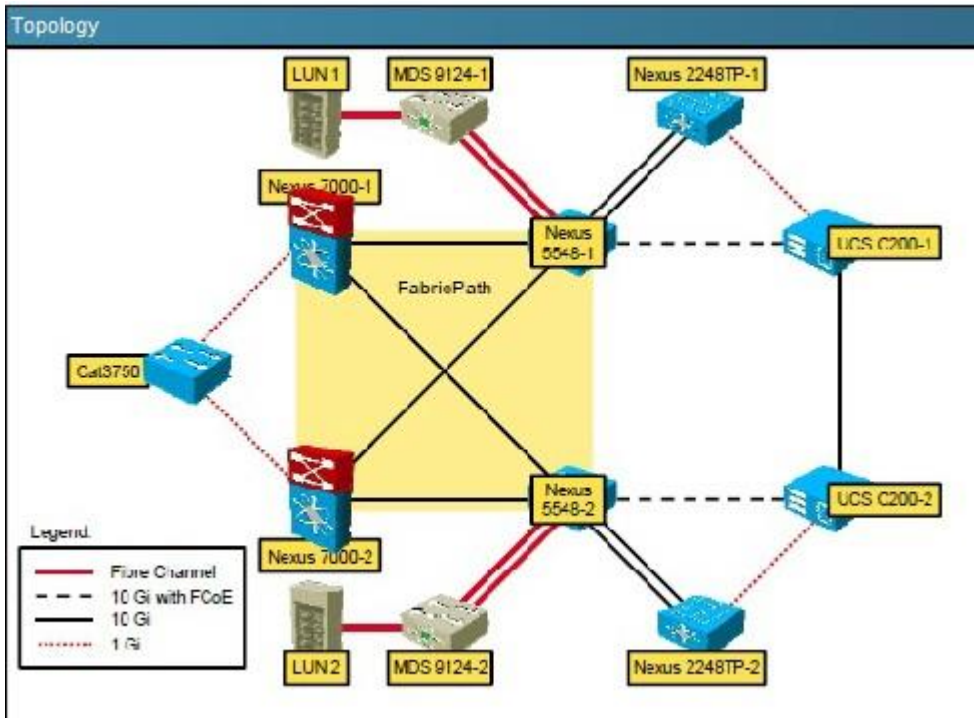
**Instructions**

- Go through NX-OS CLI captures in Exhibits 1 through 5 to answer the questions.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- To access the multiple-choice questions, click the numbered boxes at the left of the top panel.
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

**Scenario**

Customer is deploying Cisco FabricPath in their new data center as shown in the topology diagram. Go through NX-OS CLI captures in Exhibits 1 through 5 to answer the questions.

**NO.1**



## Exhibit 1

```
Nexus7000-1#show feature-set
Feature Set Name      ID      State
-----
fabricpath            2       enabled
fex                   3       disabled
Nexus7000-1#
```

## Exhibit 2

```
Nexus7000-1# show feature-set services fabricpath
u2rib
drap
isis_l2mp
3 services 1r feature set fabricpath
Nexus7000-1#
```

## Exhibit 3

```
Nexus7000-1# config terminal
Nexus7000-1#(config)# fabricpath switch-id 25
Nexus7000-1#(config)#
```

## Exhibit 4

```
Nexus7000-1# config terminal
Nexus7000-1#(config)# fabricpath timer allocate-delay 600
Nexus7000-1#(config)#
```

## Exhibit 5

```
Nexus7000-1# config terminal
Nexus7000-1#(config)# fabricpath load-balance unicast layer3
Nexus7000-1#(config)#

Nexus7000#(config)# sh fabricpath load-balance
ECMP load-balancing configuration:
L3/L4 Preference: Mixed
Rotate amount: 14 bytes
Use VLAN: TRUE
Ftag load-balancing configuration:
Rotate amount: 3 bytes
Use VLAN: TRUE
```

On a Cisco Nexus7000 switches what is true regarding Cisco FabricPath requirements?

- A.** Ensure that you have installed the Enhanced Layer 2 license and that you have installed an F Series module
- B.** Ensure that you have installed the Enhanced Layer 2 license and that you have installed an M Series module
- C.** Ensure that you have installed the Enhanced Layer 3 license and that you have installed an M Series module
- D.** Ensure that you have installed the Scalable Feature License license and that you have installed an F Series module

**Answer: A**

Explanation:

FabricPath switching has the following prerequisites:

\*

You should have a working knowledge of Classical Ethernet Layer 2 functioning.

\*

You must install the FabricPath feature set on the default and nondefault VDC before you enable FabricPath on the switch. See Configuring Feature Set for FabricPath for information on installing the FabricPath feature set.

\*

You are logged onto the device.

\*

Ensure that you have installed the Enhanced Layer 2 license.

\*

You are in the correct virtual device context (VDC).

A VDC is a logical representation of a set of system resources. You can use the `switchto vdc` command with a VDC number.

\*

You are working on the F Series module.

Reference: [http://www.cisco.com/en/US/docs/switches/datacenter/sw/5\\_x/nx-oQsu/feasbtriocpnaNtho/c:o2n9fig-ur\(aTtoiopnic/g3u\)ide/fp\\_switching.html](http://www.cisco.com/en/US/docs/switches/datacenter/sw/5_x/nx-oQsu/feasbtriocpnaNtho/c:o2n9fig-ur(aTtoiopnic/g3u)ide/fp_switching.html)

**NO.2** Which three attributes encompass a local user account on a Cisco NX-OS device?

(Choose three.)

- A. expiration date
- B. cisco-avpair
- C. password
- D. AAA server address
- E. user roles
- F. bind user DN
- G. user privileges

**Answer:** A,C,E

**NO.3** Which four options are capabilities of the Cisco Nexus 5000 and 5500 Series Switch?

(Choose four.)

- A. line rate
- B. managed by a parent switch
- C. lossless 10 Gigabit Ethernet
- D. lossless 100 Gigabit Ethernet
- E. low latency
- F. extremely low latency
- G. hosts a virtual supervisor module

**Answer:** A,C,E,G

**NO.4** Using the default VDC high-availability options in the Cisco Nexus 7010 switch, which event occurs after a VDC failure?

- A. VDC restart occurs.
- B. The VDC is deleted.
- C. VDC bringdown occurs, and the VDC must be restarted manually.
- D. VDC shutdown occurs, and the VDC must be restarted manually.

**Answer:** D

**NO.5** Which three Cisco UCS C-Series CNAs support Adapter FEX? (Choose three.)

- A. Qlogic QLE8152
- B. Broadcom BCM57712
- C. Cisco UCS P81E
- D. Cisco UCS VIC 1220
- E. Emulex OCe10102-FX-C
- F. Intel X520

**Answer:** B,C,D

Reference: [http://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/c-series\\_integration/ucsm2-1/b\\_UCSM2-1\\_C-Integration/b\\_UCSM2-1\\_C-Integration\\_chapter\\_011.html#reference\\_D644111FC68046F0BEA49756A0834664](http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c-series_integration/ucsm2-1/b_UCSM2-1_C-Integration/b_UCSM2-1_C-Integration_chapter_011.html#reference_D644111FC68046F0BEA49756A0834664)

**NO.6 DRAG DROP**

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Limits unicast, multicast, and broadcast traffic</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Endpoints can only belong to one</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Shared routing and name space</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Limits unicast traffic</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Separate routing and name space</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Endpoints can belong to multiple</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Configured at fabric edge</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Encompass the entire fabric</div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #FFD700; text-align: center;">VSANs</th> </tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr> <th style="background-color: #FFD700; text-align: center;">Zoning</th> </tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> </table> | VSANs |  |  |  |  | Zoning |  |  |  |  |
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| VSANs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |  |  |  |  |        |  |  |  |  |
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| Zoning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |  |  |  |  |        |  |  |  |  |
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**Answer:**

VSANs and SAN Zoning have similar security goals, but also have different qualities. Drag the characteristic on the left to the appropriate column heading (VSAN or Zoning) on the right.

|                                                  | VSANs                                            | Zoning                           |
|--------------------------------------------------|--------------------------------------------------|----------------------------------|
| Limits unicast, multicast, and broadcast traffic | Separate routing and name space                  | Shared routing and name space    |
| Endpoints can only belong to one                 | Limits unicast, multicast, and broadcast traffic | Limits unicast traffic           |
| Shared routing and name space                    | Endpoints can only belong to one                 | Endpoints can belong to multiple |
| Limits unicast traffic                           | Encompass the entire fabric                      | Configured at fabric edge        |
| Separate routing and name space                  |                                                  |                                  |
| Endpoints can belong to multiple                 |                                                  |                                  |
| Configured at fabric edge                        |                                                  |                                  |
| Encompass the entire fabric                      |                                                  |                                  |

**NO.7** Which option shows how to configure an ERSPAN Type III source session in Cisco NX-OS 6.2?

A)

```
switch(config)# capture monitor erspan origin ip-address 10.10.10.10
global
switch(config)# capture monitor erspan granularity 100_ns
switch(config)# capture monitor session 1 type erspan-source
switch(config-erspan-src)# mode extended
switch(config-erspan-src)# header-type 2
switch(config-erspan-src)# source interface ethernet 14/30
switch(config-erspan-src)# erspan-id 1
switch(config-erspan-src)# ip ttl 16
switch(config-erspan-src)# ip dscp 5
switch(config-erspan-src)# vrf default
switch(config-erspan-src)# destination ip 192.168.0.1
switch(config-erspan-src)# no shut
```

B)

```
switch(config)# monitor erspan origin ip-address 10.10.10.10 global
switch(config)# monitor erspan granularity 100_ns
switch(config)# monitor session 1 type erspan-source
switch(config-erspan-src)# mode extended
switch(config-erspan-src)# header-type 3
switch(config-erspan-src)# destination interface ethernet 14/30
switch(config-erspan-src)# erspan-id 1
switch(config-erspan-src)# ip ttl 16
switch(config-erspan-src)# ip dscp 5
switch(config-erspan-src)# vrf default
switch(config-erspan-src)# destination ip 192.168.0.1
switch(config-erspan-src)# no shut
```

C)

```

switch(config)# monitor erspan origin ip-address 10.10.10.10 global
switch(config)# monitor erspan granularity 100_ns
switch(config)# monitor session 1 type erspan-source
switch(config-erspan-src)# mode extended
switch(config-erspan-src)# header-type 3
switch(config-erspan-src)# source interface ethernet 14/30
switch(config-erspan-src)# erspan-id 1
switch(config-erspan-src)# ip ttl 16
switch(config-erspan-src)# ip dscp 5
switch(config-erspan-src)# vrf default
switch(config-erspan-src)# destination ip 192.168.0.1
switch(config-erspan-src)# no shut

```

D)

```

switch(config)# capture monitor erspan origin ip-address 10.10.10.10
global
switch(config)# capture monitor erspan granularity 100_ns
switch(config)# capture monitor session 1 type erspan-source
switch(config-erspan-src)# mode extended
switch(config-erspan-src)# header-type 2
switch(config-erspan-src)# destination interface ethernet 14/30
switch(config-erspan-src)# erspan-id 1
switch(config-erspan-src)# ip ttl 16
switch(config-erspan-src)# ip dscp 5
switch(config-erspan-src)# vrf default
switch(config-erspan-src)# destination ip 192.168.0.1
switch(config-erspan-src)# no shut

```

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

**Answer:** C**NO.8** Which policy-map action performs congestion avoidance?

- A. priority
- B. bandwidth
- C. queue-limit
- D. random-detect

**Answer:** D

Explanation:

Congestion avoidance techniques monitor network traffic loads in an effort to anticipate and avoid congestion at common network bottlenecks. Congestion avoidance is achieved through packet dropping. Among the more commonly used congestion avoidance mechanisms is Random Early Detection (RED), which is optimum for high-speed transit networks. Cisco IOS QoS includes an implementation of RED that, when configured, controls when the router drops packets. If you do not configure Weighted Random Early Detection (WRED), the router uses the cruder default packet drop mechanism called tail drop.

Reference:

[http://www.cisco.com/c/en/us/td/docs/ios/12\\_2/qos/configuration/guide/fqos\\_c/qcfcnav.html](http://www.cisco.com/c/en/us/td/docs/ios/12_2/qos/configuration/guide/fqos_c/qcfcnav.html)

**NO.9** Which statement about the implementation of Cisco TrustSec on Cisco Nexus 7000 Series Switches is true?

- A. While SGACL enforcement and SGT propagation are supported on the M and F modules, 802.1AE (MACsec) support is available only on the M module.
- B. SGT Exchange Protocol is required to propagate the SGTs across F modules that lack hardware



support for Cisco TrustSec.

**C.** AAA authentication and authorization is supported using TACACS or RADIUS to a Cisco Secure Access Control Server.

**D.** Both Cisco TrustSec and 802.1X can be configured on an F or M module interface.

**Answer:** A

Explanation:

The M-Series modules on the Nexus 7000 support 802.1AE MACSEC on all ports, including the new M2-series modules. The F2e modules will have this feature enabled in the future.

It is important to note that because 802.1AE MACSEC is a link-level encryption, the two MACSEC-enabled endpoints, Nexus 7000 devices in our case, must be directly L2 adjacent. This means we direct fiber connection or one facilitated with optical gear is required. MACSEC has integrity checks for the frames and intermediate devices, like another switch, even at L2, will cause the integrity checks to fail. In most cases, this means metro-Ethernet services or carrier-provided label switched services will not work for a MACSEC connection.

Reference: <http://www.ciscopress.com/articles/article.asp?p=2065720>

**NO.10** Which two Cisco Nexus platforms support Adapter FEX? (Choose two.)

**A.** Cisco Nexus 7000 Series Switches

**B.** Cisco Nexus 5000 Series Switches

**C.** Cisco Nexus 5500 Series Switches

**D.** Cisco Nexus 4000 Series Switches

**E.** Cisco Nexus 2000 Series Fabric Extenders

**Answer:** C,E

Explanation:

At the access layer, the Adapter-FEX requires a FEX-enabled adapter on a server that connects to a parent device that supports virtualization of interfaces. The Adapter-FEX is supported on the following platforms:

\*

The Cisco Unified Computing System (UCS) platform supports Adapter-FEX between UCS servers and the UCS Fabric Interconnect.

\*

The Adapter-FEX is supported on the Cisco Nexus 5500 Series platform and on the Cisco Nexus 2200 Fabric Extender that is connected to a Cisco Nexus 5500 Series parent device. This implementation works on a variety of FEX-capable adapters, including the Cisco UCS P81E virtual interface card (VIC) adapter for the UCS C-Series platform and third party adapters such as the Broadcom BCM57712 Convergence Network Interface Card, that implement the virtual network tag (VNTag) technology.

Reference:

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/adapter\\_fex/513\\_n1\\_1/ops\\_adapter\\_fex/ops\\_using\\_adapter\\_fex.html](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/operations/adapter_fex/513_n1_1/ops_adapter_fex/ops_using_adapter_fex.html)

**NO.11** Which statement about the MPLS feature set is true?

**A.** It is not license dependent.

**B.** It can be installed from any VDC.

**C.** It can be enabled only in the default VDC.

D. It must be installed from the default VDC.

**Answer:** D

**NO.12** Which statement about scalability in Cisco OTV is true?

- A. The control plane avoids flooding by exchanging MAC reachability.
- B. IP-based functionality provides Layer 3 extension over any transport.
- C. Any encapsulation overhead is avoided by using IS-IS.
- D. Unknown unicasts are handled by the authoritative edge device.

**Answer:** A

Explanation:

Cisco calls the underlying concept of OTV traffic forwarding "MAC routing", since it behaves as if you are routing Ethernet frames over the DCI transport. OTV uses a control plane protocol to proactively propagate MAC address reachability before traffic is allowed to pass, which eliminates dependency on flooding mechanism to either learn MAC addresses or forward unknown unicasts.

Reference: <http://www.computerworld.com/article/2515468/data-center/layer-2-data-center-interconnect-options.html>

**NO.13** Refer to the exhibit.

```
N5K1(config)# svs connection 2VC
N5K1 (config-svs-conn)# protocol vmware-vim
N5K1 (config-svs-conn)# dvs-name Pod1PTS port 80 vrf
management
N5K1 (config-svs-conn)# install certificate default
N5K1 (config-svs-conn)# extension-key:
Cisco_Nexus_1000V_1543569268
```

Which two commands are missing from this configuration that an admin needs to integrate a Cisco Nexus 5000 switch with vCenter to leverage VM-FEX? (Choose two.)

- A. vmware dvs datacenter-name <VMWare Datacenter name>
- B. vmware dvs <DVS name>
- C. remote ip address <vCenter IP> port 80 vrf <vrf>
- D. connection-type vmware
- E. installation-method auto

**Answer:** A,C

**NO.14 DRAG DROP**

Drag the description on the left to the most appropriate FCoE protocol or feature on the right.

| Drag the description on the left to the most appropriate FCoE protocol or feature on the right. |        |
|-------------------------------------------------------------------------------------------------|--------|
| processes FLOGIs                                                                                | ENodes |
| replaces lower Fibre Channel layers with unified fabric I/O                                     | FIP    |
| control plane protocol used to establish virtual links                                          | FCF    |
| Fibre Channel interfaces in the form of VN Ports                                                | FCoE   |

**Answer:**

Drag the description on the left to the most appropriate FCoE protocol or feature on the right.

|                                                             |                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------|
| processes FLOGIs                                            | Fibre Channel interfaces in the form of VN Ports            |
| replaces lower Fibre Channel layers with unified fabric I/O | control plane protocol used to establish virtual links      |
| control plane protocol used to establish virtual links      | processes FLOGIs                                            |
| Fibre Channel interfaces in the form of VN Ports            | replaces lower Fibre Channel layers with unified fabric I/O |

Explanation:

|                                                             |
|-------------------------------------------------------------|
| Fibre Channel interfaces in the form of VN Ports            |
| control plane protocol used to establish virtual links      |
| processes FLOGIs                                            |
| replaces lower Fibre Channel layers with unified fabric I/O |

ENODES: During FLOGI or FDISC, the ENode advertises the addressing modes it supports. If the FC switch supports an addressing mode that the ENode uses, the virtual link can be established, and the devices can communicate.

FIP: FIP is the set of control plane functions that enable discovery of FCoE-capable devices across FCoE passthrough switches and establishment of legal combinations of virtual links.

FCF: FCoE Initialization Protocol (FIP) is the FCoE control protocol responsible for establishing and maintaining Fibre Channel virtual links between pairs of FCoE devices

(ENodes or FCFs). During the virtual link establishment phase, FIP first discovers FCoE VLANs and remote virtual FC interfaces; then it performs virtual link initialization functions (fabric login [FLOGI] and fabric discovery [FDISC], or exchange link parameters [ELP]) similar to their native Fibre Channel equivalents. After the virtual link is established, Fibre Channel payloads can be exchanged on the virtual link, and FIP remains in the background to perform virtual link maintenance functions; it continuously verifies reachability between the two virtual FC interfaces on the Ethernet network, and it offers primitives to delete the virtual link in response to administrative actions to that effect. This document does not describe the virtual link maintenance functions of FIP.

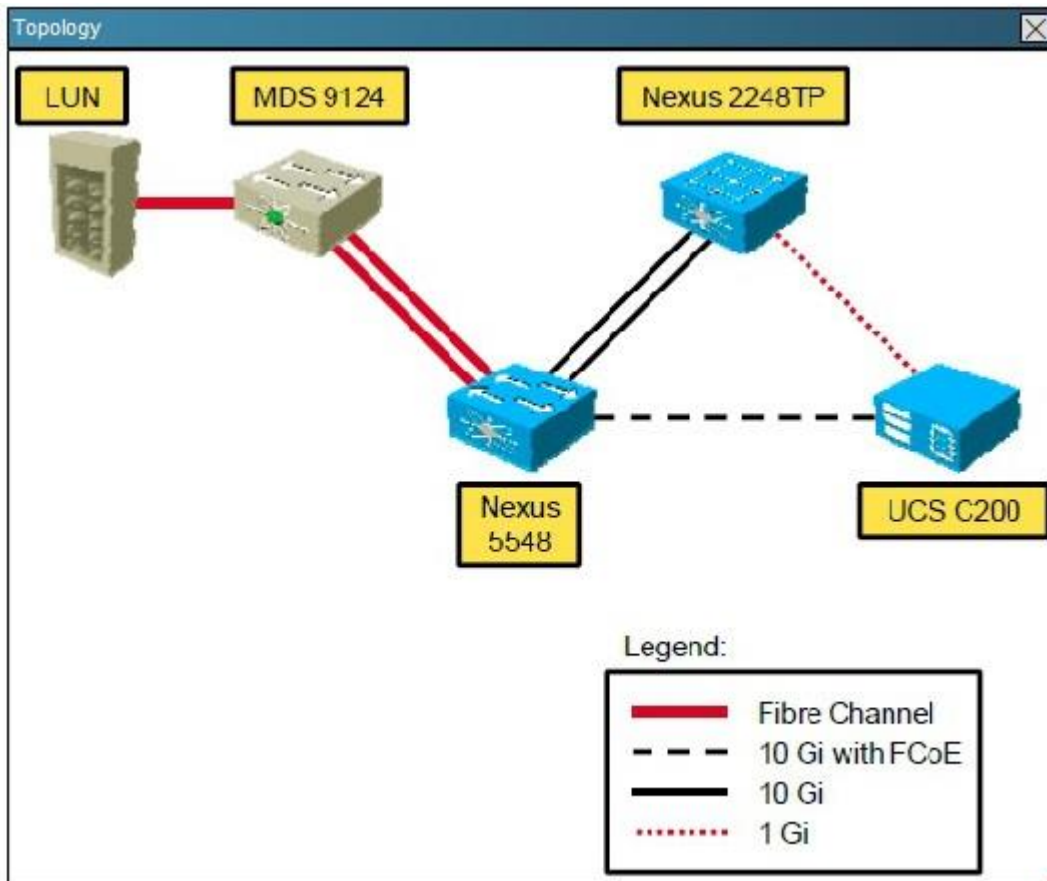
## NO.15

**Instructions** ✕

- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- Click Cisco Nexus 5548 to gain console access. No console or enable passwords are required.
- To access the multiple-choice questions, click the numbered boxes on the left of the top panel.
- There are four multiple-choice questions with this task.

**Scenario** ✕

Customer is deploying Cisco Nexus 5548 switch with FCoE in their new data center, as shown in the topology diagram. Click Nexus5548 icon to run show commands and answer the questions.



Ethernet interface 1/5 on Cisco Nexus 5548 is connected to Cisco UCS C220 rack server. What is the status of Ethernet 1/5 interface for FCoE functionality?

- A. Interface reset on Ethernet 1/5 is preventing the FCoE connection from coming up
- B. MTU size of 1500 on Ethernet interface 1/5 needs to be changed for FCoE to come UP
- C. Cisco Nexus 5548 needs a layer 3 daughter card for FCoE to come UP on the Ethernet interface 1/5

**D.** Ethernet interface 1/5 is operational for FCoE and the status is UP

**Answer:** D