Cisco

Exam Questions 642-997

DCUFI Implementing Cisco Data Center Unified Fabric (DCUFI) v5.0

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NEW QUESTION 1
- (Topic 1)
Which three items must be configured in the port profile client in Cisco UCS Manager? (Choose three.)

A. port profile
B. DVS
C. data center
D. folder
E. vCenter IP address
F. VM port group

Answer: BCD

Explanation:
After associating an ESX host to a DVS, you can migrate existing VMs from the vSwitch to the DVS, and you can create VMs to use the DVS instead of the vSwitch. With the hardware-based VN-Link implementation, when a VM uses the DVS, all VM traffic passes through the DVS and ASIC-based switching is performed by the fabric interconnect.

In Cisco UCS Manager, DVSes are organized in the following hierarchy: vCenter Folder (optional) Datacenter Folder (required) DVS

At the top of the hierarchy is the vCenter, which represents a VMware vCenter instance. Each vCenter contains one or more datacenters, and optionally vCenter folders with which you can organize the datacenters. Each datacenter contains one or more required datacenter folders. Datacenter folders contain the DVSes.


NEW QUESTION 2
- (Topic 1)
Which statement about RADIUS configuration distribution using Cisco Fabric Services on a Cisco Nexus 7000 Series Switch is true?

A. Cisco Fabric Services does not distribute the RADIUS server group configuration or server and global keys.
B. Enabling Cisco Fabric Services causes the existing RADIUS configuration on your Cisco NX-OS device to be immediately distributed.
C. When the RADIUS configuration is being simultaneously changed on more than one device in a Cisco Fabric Services region, the most recent changes will take precedence.
D. Only the Cisco NX-OS device with the lowest IP address in the Cisco Fabric Services region can lock the RADIUS configuration.

Answer: A

Explanation:
CFS does not distribute the RADIUS server group configuration or server and global keys. The keys are unique to the Cisco NX-OS device and are not shared with other Cisco NX-OS devices.


NEW QUESTION 3
- (Topic 2)
In the dynamic vNIC creation wizard, why are choices for Protection important?

A. They allow reserve vNICs to be allocated out of the spares pool.
B. They enable hardware-based failover.
C. They select the primary fabric association for dynamic vNICs.
D. They allow dynamic vNICs to be reserved for fabric failover.

Answer: C

Explanation:
Number of Dynamic vNICs – This is the number of vNICs that will be available for dynamic assignment to VMs. Remember that the VIC has a limit to the number of vNICs that it can support and this is based on the number of uplinks between the IOM and the FI. At least this is the case with the 2104 IOM and the M81KR VIC, which supports (# IOM Links * 15) – 2). Also remember that your ESXi server will already have a number of vNICs used for other traffic such as Mgmt, vMotion, storage, etc, and that these count against the limit.

Adapter Policy – This determines the vNIC adapter config (HW queue config, TCP offload, etc) and you must select VMWarePassThru to support VM-FEX in High Performance mode.

Protection – This determines the initial placement of the vNICs, either all of them are placed on fabric A or Fabric B or they are alternated between the two fabrics if you just select the “Protected” option. Failover is always enabled on these vNICs and there is no way to disable the protection.


NEW QUESTION 4
- (Topic 4)
Which topology is not supported when using vPC?

A. a single-homed server to a single FEX that is connected to two Cisco Nexus 5500 Series Switches
B. a dual-homed server to two FEXs, each connected to two Cisco Nexus 5500 Series Switches
C. a dual-homed server to two FEXs that are connected to one Cisco Nexus 5500 Series Switch
D. a dual-homed server to a single FEX that is connected to two Cisco Nexus 5500 Series Switches

Answer: C

Explanation:
The figure shows unsupported topology where a vPC is between hosts and two FEXs that are connected to one Cisco Nexus 5500 Series device. This topology does not provide a good high availability solution because the server loses the connectivity to the network when the Cisco Nexus 5500 Series device fails.
If you need to connect a multi-homing server to a pair of FEXs when there is only one Cisco Nexus 5000 Series device, you have the option to run active or standby NIC teaming from the server.


NEW QUESTION 5
- (Topic 4)
What is the grace period in a graceful restart situation?

A. how long the supervisor waits for NSF replies
B. how often graceful restart messages are sent after a switchover
C. how long NSF-aware neighbors should wait after a graceful restart has started before tearing down adjacencies
D. how long the NSF-capable switches should wait after detecting that a graceful restart has started, before verifying that adjacencies are still valid

Answer: C

Explanation:
Graceful restart (GR) refers to the capability of the control plane to delay advertising the absence of a peer (going through control-plane switchover) for a "grace period," and thus help minimize disruption during that time (assuming the standby control plane comes up). GR is based on extensions per routing protocol, which are interoperable across vendors. The downside of the grace period is huge when the peer completely fails and never comes up, because that slows down the overall network convergence, which brings us to the final concept: nonstop routing (NSR).

NSR is an internal (vendor-specific) mechanism to extend the awareness of routing to the standby routing plane so that in case of failover, the newly active routing plane can take charge of the already established sessions.


NEW QUESTION 6
- (Topic 5)
Refer to the exhibit.

```
OTV_EDGE1_SITE1# show otv route
OTV Unicast MAC Routing Table For Overlay1

+----------------+--------------+---------+----------+----------+
<table>
<thead>
<tr>
<th>VLAN MAC-Address</th>
<th>Metric</th>
<th>Uptime</th>
<th>Last Updt</th>
<th>Owner</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
<td>Owner</td>
</tr>
<tr>
<td>Next-Hop(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1100 MACs from SITE 1 - local</td>
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<td></td>
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<td></td>
</tr>
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<td>2d16h</td>
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<td>lmac</td>
<td></td>
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<tr>
<td>port-channel1</td>
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<td>1100 MACs from SITE 2</td>
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<td>Overlay1-10.3.8.2</td>
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</tbody>
</table>

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<td>1100 MACs from SITE 2</td>
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</tr>
</tbody>
</table>
```

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Which statement based on these two outputs that were collected 24 hours apart is true?

A. The Site 2 OTV edge device has gone down.
B. The MAC address cannot be discovered on two separate port channel interfaces.
C. The MAC address that ends in 020a moved to the local site 23 hours ago.
D. The Overlay1 IP address should be a multicast IP address.

Answer: C

NEW QUESTION 7
- (Topic 5)
Which two statements about implementing Cisco NPV and NPIV on a Cisco Nexus 5000 Series switch are true? (Choose two.)

A. STP must run inside the FP network.
B. All VLANs must be in the same mode, CE, or FP.
C. FP port can join the private and nonprivate VLANs.
D. Only F and M series modules can run FabricPath.
E. These require an enhanced Layer 2 license to run.

Answer: BE

Explanation:
With the Nexus 5x00 switch, FCoE functionality is a licensed feature. After the license is installed, FCoE configuration can be completed.

NEW QUESTION 8
- (Topic 5)
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.

NEW QUESTION 9
- (Topic 5)
What is an Overlay Transport Virtualization extended VLAN?

A. the VLAN used to locate other AEDs
B. the VLAN used to access the overlay network by the join interface
C. the user VLAN that exists in multiple sites
D. the VLAN that must contain the overlay interface

Answer: C

Explanation:
Functions of OTV
- Maintains a list of overlays
- Maintains a list of configured overlay parameters such as name, multicast address, encapsulation type, authentication, and OTV feature sets
- Maintains the state of the overlay interface
- Maintains the status of OTV VLAN membership from Ethernet infrastructure and the state of the authoritative edge device (AED) from IS-IS
- Maintains a database of overlay adjacencies as reported by IS-IS
- Maintains IP tunnel information and manages the encapsulation for data sent on the overlay network
- Manages delivery groups (DGs) for each overlay by snooping multicast traffic and monitoring traffic streams for active DGs
- Configures, starts, and stops the OTV IS-IS instance
- Interfaces with IP multicast to join provider multicast groups for each overlay

NEW QUESTION 10
- (Topic 6)
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: CE
**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 (VTag) technology.

er_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/adapt
er_fex/513_n1_1/ops_adapter_fex/ops_using_adapter_fex.html)

**NEW QUESTION 11**
- (Topic 7)
Which situation must you consider when you add a remote RADIUS server to a Cisco Nexus device?

A. If RADIUS authentication fails, the device falls back to local authentication automatically.
B. If RADIUS authentication fails, the user is denied access with no further authentication checks.
C. If the RADIUS server is unreachable, users are unable to log in.
D. If the RADIUS server is unreachable, all users are given access with the default role.

**Answer:** B

**NEW QUESTION 12**
- (Topic 7)
If vPC peer keepalives are used between vPC peers, which VRF is used by default?

A. management
B. default
C. The user must dedicate a VRF for keepalives.
D. system

**Answer:** A

**NEW QUESTION 13**
- (Topic 7)
Which protocol is responsible for the discovery of FCoE capabilities on a remote switch?

A. DCE
B. DCBx
C. CDP
D. LLDP

**Answer:** B

**Explanation:**
Data Center Bridging Capabilities Exchange Protocol (DCBx): a discovery and capability exchange protocol that is used for conveying capabilities and configuration of the above features between neighbors to ensure consistent configuration across the network. This protocol leverages functionality provided by IEEE 802.1AB (LLDP). It is actually included in the 802.1az standard.


**NEW QUESTION 14**
- (Topic 7)
Which two elements must be configured correctly for Cisco TrustSec Fibre Channel Link Encryption to work on a Cisco MDS 9000 Series Switch? (Choose two.)

A. AES-GMAC
B. key
C. salt
D. AAA
E. group

**Answer:** BC

**NEW QUESTION 15**
- (Topic 7)
Which task must be done before a zone set takes effect?

A. Add a member to the zone.
B. Enter the exit config t command.
C. Enter the copy running-config startup-config command.
D. Enter the zoneset activate name <zone-name> vsan <vsan-#> command.

**Answer:** D

**NEW QUESTION 16**
- (Topic 7)
Which management feature provides these functions?

• Direct paging of network support engineers
• Email notifications to a network operations center
• Direct Service Request generation with the Cisco TAC

A. scripting along with the scheduler feature
B. RSA
C. Call Home
D. SNMP traps

Answer: C

NEW QUESTION 17 - (Topic 7)
Which feature allows routing protocols to remain in the data path during a supervisor failover?

A. Cisco Nonstop Forwarding
B. Cisco Stateful Switchover
C. Cisco Express Forwarding
D. Cisco Route Processor Redundancy

Answer: A

NEW QUESTION 18 - (Topic 7)
Which feature must be enabled for Cisco TrustSec FC Link Encryption to work on a Cisco MDS 9000 Series Switch?

A. crypto IKE
B. port security
C. LDAP
D. FC-SP

Answer: D

NEW QUESTION 19 - (Topic 7)
What is the role of the system manager in a stateful process restart?

A. performing software upgrades
B. launching, stopping, monitoring, and restarting services
C. handling message routing and queuing between services
D. storing and managing the operational runtime information of processes

Answer: B

NEW QUESTION 20 - (Topic 7)
A failure situation includes a corrupted operating system image and no connectivity via in-band management into a Cisco Nexus 7010 or 7018 Switch. The system cannot boot up. Which component can be used to resolve the situation?

A. USB ports
B. recovery cable
C. Reset button
D. Connectivity Management Processor

Answer: D

NEW QUESTION 21 - (Topic 7)
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