

# Cisco

## Exam Questions 350-601

Implementing and Operating Cisco Data Center Core Technologies



### NEW QUESTION 1

A customer wants to offload some of its order processing to a public cloud environment. The customer environment is based on Cisco ACI and uses Puppet with containerized applications. The operations team requires a solution to orchestrate and optimize the cost of the new solution. Which product must be used to meet these requirements?

- A. Cisco Intersight
- B. Cisco Workload Optimization Manager
- C. Cisco CloudCenter
- D. Cisco Data Center Network Manager

**Answer: C**

#### Explanation:

<https://www.cisco.com/c/dam/en/us/products/collateral/cloud-systems-management/cloudcenter/white-paper-c1>

- Enforce multicloud governance by guiding user decisions to reduce risk
- Securely automate deployment to reduce manual effort and get consistent results
- Increase feature velocity via integration with developer tools to accelerate time to market (CI/CD = Puppet, Chef, and Ansible).
- Optimize cloud consumption to cut pay-per-use cloud costs

<https://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/cloudcenter-suite/datasheet-c78>

### NEW QUESTION 2

An engineer is implementing an import operation in Cisco UCS Manager. What is the impact of performing this operation?

- A. A configuration can be imported from a higher release to a lower release.
- B. Information can be modified on the management plane only.
- C. Only a configuration file that was exported from the same Cisco UCS Manager can be imported.
- D. An import operation can be scheduled.

**Answer: B**

#### Explanation:

The import function is available for all configuration, system configuration, and logical configuration files. You can perform an import while the system is up and running. An import operation modifies information on the management plane only. Some modifications caused by an import operation, such as a change to a vNIC assigned to a server, can cause a server reboot or other operations that disrupt traffic.

[https://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/gui/config/guide/141/UCSM\\_GUI\\_Configuration](https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/UCSM_GUI_Configuration)

### NEW QUESTION 3

What is a benefit of Cisco HyperFlex All-Flash Stretched cluster deployment as compared to All-HDD Stretched cluster deployment?

- A. lower cost
- B. lower number of IOPS
- C. higher cost
- D. higher number of IOPS

**Answer: D**

### NEW QUESTION 4

Refer to the exhibit.

```
switch(config)# interface Ethernet 2/2
switch(config)# ip address 172.23.231.240/23
switch(config)# ip verify unicast source reachable-via rx
```

What is configured as a result of running these commands?

- A. reverse lookup for outbound packets
- B. strict unicast RPF
- C. loose unicast RPF
- D. IP Source Guard

**Answer: B**

#### Explanation:

[https://tools.cisco.com/security/center/resources/unicast\\_reverse\\_path\\_forwarding](https://tools.cisco.com/security/center/resources/unicast_reverse_path_forwarding)

The ip verify unicast source reachable-via rx command enables Unicast RPF in strict mode. To enable loose mode, administrators can use the any option to enforce the requirement that the source IP address for a packet must appear in the routing table.

### NEW QUESTION 5

An engineer must configure a named VSAN when the fabric interconnect is in Fibre Channel switch mode. The VSAN must meet these requirements:

- Named VSAN must be called "VSAN 10".
- VSAN ID must be 10.
- FCoE ID must be 20.
- VSAN 10 must be attached to port 2 in slot 1.

Which command set configures a VSAN when the fabric interconnect is in Fibre Channel switch mode?

- UCS-A# scope fc-storage**  
**UCS-A/fc-storage# create vsan VSAN10 10 20**  
**UCS-A /fc-storage/vsan # create member-port fcoe a 1 2**  
**UCS-A /fc-storage/vsan/member-port\* # commit-buffer**
- UCS-A# scope fc-traffic-mon**  
**UCS-A/fc-storage# create vsan VSAN10 20 10**  
**UCS-A /fc-storage/vsan # create member-port fcoe a 2 1**  
**UCS-A /fc-storage/vsan/member-port\* # commit-buffer**
- UCS-A# scope eth-storage**  
**UCS-A/fc-storage# create vsan VSAN10 10 20**  
**UCS-A /fc-storage/vsan # create member-port fcoe a 2 1**  
**UCS-A /fc-storage/vsan/member-port\* # commit-buffer**
- UCS-A# scope fc-uplink**  
**UCS-A/fc-storage# create vsan VSAN10 20 10**  
**UCS-A /fc-storage/vsan # create member-port fcoe a 1 2**  
**UCS-A /fc-storage/vsan/member-port\* # commit-buffer**

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

**Answer: A**

**NEW QUESTION 6**

An engineer must add a new VRF (DC DC) to the network that runs with Multiprotocol Border Gateway Protocol (MP-BGP) and EVPN. The requirement for the new VRF is to allow communication of network prefixes between PE1 and PE2. Which two sets of steps should be taken to complete the VRF configuration? (Choose two)

<pre>PE1: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:1 route-target export 233:2</pre>	<pre>PE2: vrf context DC1DC rd 233:2 address-family ipv4 unicast route-target import 233:1 route-target export 233:2</pre>
<pre>PE1: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:1 route-target export 233:2</pre>	<pre>PE2: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:2 route-target export 233:1</pre>
<pre>PE1: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:1 route-target export 233:1</pre>	<pre>PE2: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:2 route-target export 233:2</pre>
<pre>PE1: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:1 route-target export 233:1</pre>	<pre>PE2: vrf context DC1DC rd 233:2 address-family ipv4 unicast route-target import 233:1 route-target export 233:1</pre>
<pre>PE1: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:1 route-target export 233:2</pre>	<pre>PE2: vrf context DC1DC rd 233:1 address-family ipv4 unicast route-target import 233:2 route-target export 233:2</pre>

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

**Answer: DE**

**NEW QUESTION 7**

A network architect must design an automation solution to initially support networking and also support the server infrastructure in the future. To keep configuration

consistency, the network team requires a solution that enforces the desired state of the network and reverts any manual configuration. Which solution meets these goals?

- A. NX-API
- B. Ansible
- C. Terraform
- D. Puppet

**Answer: D**

**NEW QUESTION 8**

An engineer is implementing a Cisco ACI fabric and must use static VLAN range as part of a VMM deployment. The static VLAN must be incorporated into the dynamic VLAN pool. The existing VLAN pool is set for dynamic allocation. Which action accomplishes this goal?

- A. Add the VLAN to the pool configured with Inherit Allocation Mode from parent.
- B. Change the existing VLAN pool to static allocation mode.
- C. Add a static VLAN allocation range to the VLAN pool.
- D. Create a static reservation within the dynamic VLAN pool.

**Answer: C**

**NEW QUESTION 9**

An engineer must implement private VLANs for a group of Cisco UCS 8-Series servers. The primary VLAN is present, But the secondary VLAN must Be added to Both fabrics. Which configuration set accomplishes this task?

- UCS-A# scope eth-uplink  
 UCS-A /eth-uplink # create vlan vlan1981 1981  
 UCS-A /eth-uplink/vlan\* # set sharing none
- UCS-A# scope eth-uplink  
 UCS-A /eth-uplink # create vlan vlan1981 1981  
 UCS-A /eth-uplink/vlan\* # set sharing isolated
- UCS-A# scope eth-uplink  
 UCS-A /eth-uplink # scope fabric a  
 UCS-A /eth-uplink/fabric # create vlan vlan1981 1981  
 UCS-A /eth-uplink/fabric/vlan\* # set sharing private
- UCS-A# scope eth-uplink  
 UCS-A /eth-uplink # scope fabric a  
 UCS-A /eth-uplink/fabric # create vlan vlan1981 1981  
 UCS-A /eth-uplink/fabric/vlan\* # set sharing secondary

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

**Answer: B**

**NEW QUESTION 10**

Which two actions should be taken before an upgrade is started on a Cisco MDS switch? (Choose two.)

- A. check the impact of the upgrade using the show install all impact command
- B. disable Cisco Fabric Services
- C. back up the configuration
- D. free up space on the USB3 device by deleting old Cisco NX-OS image files
- E. make the primary supervisor the active supervisor

**Answer: AC**

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5\\_2/upgrade/guides/nx-os/upgrade.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_2/upgrade/guides/nx-os/upgrade.html)

**NEW QUESTION 11**

A network engineer must download a firmware image from a remote location to a Cisco UCS Fabric Interconnect. The software bundle is over 232 MB in size. The file transfer must use encryption and authentication Which protocol must be used to accomplish this goal?

- A. RDP
- B. HTTPS
- C. SCP
- D. TFTP

**Answer: C**

**NEW QUESTION 12**

An engineer is implementing NetFlow on a Cisco Nexus 7000 Series Switch. Drag and drop the NetFlow commands from the left into the correct order they must be entered on the right.

N7K-1(config)# interface <interface> N7K-1(config-if)# ip flow monitor NetflowMonitor input	Step 1
N7K-1(config)# feature netflow	Step 2
N7K-1(config)# flow exporter NetflowMonitor N7K-1(config)# flow record NetflowMonitor	Step 3
N7K-1(config)# flow monitor NetflowMonitor	Step 4

**Solution:**

- 1- feature netflow
- 2- flow exporter
- 3- flow monitor
- 4- interface<interface>

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 13**

Which two statements about the process of upgrading an EPLD on a Cisco MDS 9000 series Switch are correct? (Choose two.)

- A. The EPLDs for all the modules on a switch must be upgraded at the same time.
- B. EPLD upgrades can be completed without powering down the module during the upgrade.
- C. EPLDs can be upgraded only to the latest EPLD image.
- D. EPLDs can be upgraded without replacing the hardware.
- E. An upgrade verification identifies the impact of each EPLD upgrade.

**Answer:** DE

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/7\\_3/upgrade/upgrade.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/7_3/upgrade/upgrade.html)

**NEW QUESTION 14**

A network engineer must create a script to quickly verify IP reachability for multiple hosts using ping from the Cisco NX-OS switches. The script should use the management VRF and exit the shell after execution Which script should be used to achieve this objective?

- tclsh  
foreach address {  
192.168.254.1  
192.168.254.2  
192.168.254.3  
192.168.254.4  
}  
{ping \$address source 192.168.254.254  
}  
tclquit
- tclsh  
foreach address {  
192.168.254.1  
192.168.254.2  
192.168.254.3  
192.168.254.4  
}  
{ping \$address source 192.168.254.254  
}
- tclsh  
foreach address {  
192.168.254.1  
192.168.254.2  
192.168.254.3  
192.168.254.4  
}  
{ping \$address vrf management source 192.168.254.254  
}
- tclsh  
foreach address {  
192.168.254.1  
192.168.254.2  
192.168.254.3  
192.168.254.4  
}  
{cli ping \$address vrf management source 192.168.254.254  
}  
tclquit

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

**Answer:** D

**NEW QUESTION 15**

An engineer is performing an ISSU upgrade on the Cisco MDS 9000 Series Switch. What is the impact on the control plane of the switch?

- A. It remains down until the next reboot.
- B. It remains up throughout the update.
- C. It remains down for more than 80 seconds but less than 140 seconds.
- D. It is down for less than 80 seconds.

**Answer: D**

**NEW QUESTION 16**

An engineer must integrate Cisco ACI with a VMware vSphere environment. The requirement is to use a VMware Distributed Virtual Switch and to assign the encapsulation VLAN of the EPG from the VLAN pool. Which configuration set accomplishes this goal?

- A. Create a VMM domain association under the EPGs Create a VLAN pool with static allocated VLANs.
- B. Create a physical domain association under the EPGs Create a VLAN pool with static allocated VLANs.
- C. Create a physical domain association under the EPG
- D. Create a VLAN pool with oVnarmc allocated VLANs
- E. Create a VMM domain association under the EPGs Create a VLAN pool with dynamic allocated VLANs.

**Answer: D**

**NEW QUESTION 17**

Refer to the exhibit.

```
Step 20 Enter no (no is the default) if you are satisfied with the configuration.

The following configuration will be applied:

switchname CiscoMDS
 interface mgmt0
   ip address 192.168.10.10
   subnetmask 255.255.255.0
   no shutdown
 ip default-gateway 192.168.10.1
 telnet server enable
 no ssh server enable
 no system default switchport shutdown
 system default switchport trunk mode on
 no zone default-zone permit vsan 1-4093
 zoneset distribute full vsan 1-4093
Would you like to edit the configuration? (yes/no) [n]: no

Step 21 Enter yes (yes is default) to use and save this configuration.

Use this configuration and save it? (yes/no) [y]: yes
```

An engineer is configuring a Cisco MDS 9000 Series Switch for the first time. After the initial setup process, the name server at IP 192.168.10.11 is missing from the configuration. Which set of actions completes the configuration?

- A. Enter no at step 21 and reinitialize the install
- B. Press the Esc key to access ROMMON mode.
- C. Enter no at step 21 and reload the switch
- D. Configure the advanced IP options.
- E. Enter yes at step 21 to edit the configuration
- F. Add the line dns-server 192.168.10.11.
- G. Enter yes at step 21 and log i
- H. Modify the startup configuration DNS

**Answer: B**

**NEW QUESTION 18**

An engineer enters these commands while in EEM on a Cisco Nexus 9000 Series Switch. event manager applet Backup-config event timer watchdog time 1800 name timer event cli match "copy running-config startup-config" what is the result of applying this configuration?

- A. It saves the running configuration every 1800 seconds.
- B. It generates an error because no action is mentioned.
- C. It executes the copy running-config startup-config command.
- D. It blocks the copy running-config startup-config command.

**Answer: B**

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/93x/system-management/b-cisco-nex>  
 Graphical user interface, text, application, email Description automatically generated

## Prerequisites for EEM

EEM has the following prerequisites:

- You must have network-admin user privileges to configure EEM.

## Guidelines and Limitations for EEM

EEM has the following configuration guidelines and limitations:

- The maximum number of configurable EEM policies is 500.
- Action statements within your user policy or overriding policy should not negate each other or adversely affect the associated system policy.
- To allow a triggered event to process any default actions, you must configure the EEM policy to allow the default action. For example, if you match a CLI command in a match statement, you must add the event-default action statement to the EEM policy or EEM will not allow the CLI command to execute.
- When you configure an EEM policy action to collect **show tech** commands, make sure to allocate enough time for the **show tech** commands to complete before the same action is called again.

### NEW QUESTION 19

An engineer configured an environment that contains the vPC and non-vPC switches. However, it was noticed that the downstream non-vPC switches do not receive the upstream vPC switch peers. Which vPC feature must be implemented to ensure that vPC and non-vPC switches receive same STP bridge ID from the upstream vPC switch peers?

- A. vpc local role-priority 4000
- B. peer-switch
- C. system-mac 0123.4567.89ab
- D. peer-gateway

**Answer: B**

#### Explanation:

Peer-Switch feature allows the vPC peers use the same STP root ID as well as the same bridge ID.

### NEW QUESTION 20

Which service profile is affected if the default host firmware policy in Cisco UCS Manager is changed?

- A. any service profile that has no host firmware policy defined
- B. any service profile that uses a user-created host firmware policy
- C. any service profile that is not in the root sub-org
- D. any service profile that uses the global-default host firmware policy

**Answer: A**

#### Explanation:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Firmware-Mgmt/3-1/b\\_UCSM\\_GUI\\_Firmware\\_Management\\_Guide\\_3\\_1/b\\_UCSM\\_GUI\\_Firmware\\_Management\\_Guide\\_3\\_1\\_chapter\\_011.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Firmware-Mgmt/3-1/b_UCSM_GUI_Firmware_Management_Guide_3_1/b_UCSM_GUI_Firmware_Management_Guide_3_1_chapter_011.html)

### NEW QUESTION 21

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