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Number: 500-901  
Passing Score: 800  
Time Limit: 120 min  
File Version: 1.0



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Cisco Data Center Unified Computing Infrastructure Design

Version 1.0

## Exam A

### QUESTION 1

What is the purpose of a virtual switch?

- A. Virtual switches manage storage requests from virtual machines
- B. Virtual switches present NICs to virtual machines for network connectivity
- C. Virtual switches recommend QoS options to the hypervisor for network connectivity
- D. Virtual switches present NICs to the UCSM for network connectivity

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

You disassociated a Database Server Service Profile from your existing UCS C240 M4. Then, you associate a Web Server Service Profile to this UCS C240M4. The Database Server Service Profile contained a Scrub Policy enabled for Disk Scrub. The Web Server Service Profile contains a Scrub Policy disabled for Disk Scrub. What will happen after the reboot?

- A. The process will fail because the Service Profiles are fundamentally different
- B. The process will succeed, and server disk content will be preserved
- C. The process will fail because of the differences in the Scrub Policies
- D. The process will succeed, but server disk content will be lost

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



### QUESTION 3

You are creating a Boot Policy to have your Cisco UCS Server boot from SAN. What option shows the correct process?

- A. Include a vHBA in the Boot Order list, provide a Boot LUN ID, and Provide the WWPN address for the Boot Target
- B. Include a vHBA in the Boot Order list, provide a SAN ID, and provide the WWPN address for the Boot Target
- C. Include two vHBAs in the Boot Order list (vHBA-A and vHBA-B for redundancy), provide a Boot LUN ID for each vHBA, and provide the WWPN address for the Boot Target
- D. Include two vHBAs in the Boot Order list (vHBA-A and vHBA-B for redundancy), provide a SAN ID, and provide the WWPN address for the Boot Target

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

An administrator has configured an NPV traffic map for a new server interface, none of the uplinks in the traffic map are open action?

- A. The traffic map will be disregarded and an uplink in the interface VSAN will be selected.
- B. The default VSAN uplink will be used if operational.
- C. The server will remain in a nonoperational state.
- D. The server interface will signal an FDISC message to the fabric switch.

**Correct Answer:** C

**Section:** (none)

## Explanation

### Explanation/Reference:

**QUESTION 5** How do service profiles enable workload mobility?

- A. Service Profiles represent a physical view of a server without any ties to specific virtual hardware
- B. Service Profiles work with the underlying hypervisor and communicate with the VM to detect workload movement
- C. Service Profiles represent a logical view of a server without any ties to specific physical hardware
- D. Service Profiles communicate workload movement to VCenter

**Correct Answer:** A

**Section:** (none)

## Explanation

### Explanation/Reference:

**QUESTION 6** The HX Data Platform architecture uses which two data optimization features? (Choose two.)

- A. Non-disruptive RAID recovery
- B. Inline data compression
- C. Post-process data compression
- D. Cluster-wide garbage collection
- E. Inline data deduplication
- F. Post-process data deduplication

**Correct Answer:** BE

**Section:** (none)

## Explanation

### Explanation/Reference:

## QUESTION 7

You just installed a group of new Cisco UCS Servers in an ESX Cluster. Now, you want to deploy Nexus 1000v in this virtual environment. Which two statements regarding the scenario are true? (Choose two.)

- A. Nexus 1000v VEM will act as the Control Plane, while Nexus 1000v VSM acts as a remote line card
- B. Nexus 1000v VSM will act as the Control Plane, while Nexus 1000v VEM acts as a remote line card
- C. Nexus 1000v is not supported on ESX
- D. Nexus 1000v VSM is deployed in vCenter, Nexus 1000v VEM is deployed in each ESX Host
- E. Nexus 1000v VEM is deployed in vCenter, Nexus 1000v VSM is deployed in each ESX Host

**Correct Answer:** BD

**Section:** (none)

## Explanation

### Explanation/Reference:

**QUESTION 8** Which primary functions are provided by VSANs?

- A. Independent fabric services per VSAN and zoning
- B. Software-based isolation of traffic and independent fabric services per VSAN
- C. Hardware-based isolation of traffic and independent fabric services per VSAN

D. Specific driver configuration and FSPF routing

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9** Which two QoS classes are enabled by default on Cisco's UCS servers?  
(Choose two.)

- A. Silver
- B. Platinum
- C. Best Effort
- D. Fibre Channel
- E. Bronze

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10** What is a Universally Unique Identifier in the context of Cisco Unified Computing System?

- A. A unique identifier used to identify an object or entity on the internet.
- B. A unique identifier used in server profiles enabling server mobility.
- C. A unique identifier used in application profiles enabling server mobility.
- D. A unique identifier used in service profiles enabling server mobility.



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11** Which statement is true regarding vNIC Templates and LAN Connectivity Policy?

- A. Network identities for LAN connectivity policy must be pool derived
- B. We can add VLANs to the vNIC template at any time
- C. WE do not need MAC address pool for vNIC Templates
- D. vNIC templates must be created first and then used as a part of the LAN Connectivity Policy

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

Cisco recommended to help customer's provision physical, virtual, and multivendor data center infrastructure environments from a single pane?

- A. Cisco UCS Director

- B. Cisco UCS Performance Manager
- C. Cisco UCS Manager
- D. Cisco UCS Central

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

What aspect of Cisco UCS servers enables multi-tenancy and provides an administrative hierarchy to organize resources?

- A. Resource pools
- B. Organizations
- C. Service profile templates
- D. Service profiles

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

Your System BIOS has 'Hyper Threading' enabled. However, you just created a BIOS Policy that has 'Hyper Threading' disabled. You attached this BIOS Policy to a Service Profile and associated this Service Profile to the existing Server. What action will occur next?

- A. The System BIOS takes precedence over the 'BIOS Policy', so 'Hyper Threading' will remain enabled
- B. The 'BIOS Policy' takes precedence over the System BIOS, so 'Hyper Threading' will be disabled
- C. The UCS Server will fail due to a mismatch configuration
- D. Some BIOS settings cannot be changed in UCS Servers, 'Hyper Threading' is one of them

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

Where can World Wide Node Name be defined?

- A. In neither vHBA template nor SAN connectivity policy
- B. In vHBA template only
- C. In SAN connectivity policy only
- D. In both, vHBA template or SAN connectivity policy

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

Which Cisco UCS core element maintains the UCS XML database?

- A. Cisco Finite State Machine
- B. Cisco Data Management Engine
- C. Cisco UCS Manager
- D. Cisco Application Gateways

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17** Which two VSANs are automatically created and cannot be deleted?  
(Choose two.)

- A. The Virtual Bridging VSAN
- B. The Isolated VSAN
- C. The Fabric Control VSAN
- D. The Default VSAN

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

In a USC domain, the Storage role contains storage related privileges, and the Server role contains server related privileges. A user has joined the group that will need to have both Server roles. What does the UCS administrator need to do in order to accommodate the new user?

- A. Create one user account and assign both roles to that account.
- B. Create two login accounts for the user, one for each role, since an account can only assign one role.
- C. Create one user account and map it to a locale that contains both roles.
- D. Create one user account, but and define two login domains, one for each role.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19** Which three options can a virtual switch do?  
(Choose three.)

- A. VLAN tagging is done in UCS Manager
- B. Virtual Machines with a trunk port imposes the VLAN tag
- C. Impose the VLAN tag allocation
- D. Set IP Class-of-Service bits
- E. Allow physical switch to impose the VLAN tag

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

You are creating a Local Disk Configuration Policy to be used by a new Service Profile for your UCS Server. Previous Service Profile had a Local Disk Configuration Policy set up for 'No RAID' and the 'Protect Configuration' box was checked. This time, you choose 'RAID 1' and deselect the 'Protect Configuration' checkbox. What are the implications of this change?

- A. The Service Profile association process will fail because you cannot change from 'No RAID' to 'RAID 1'
- B. The Service Profile association process will fail because the policies are different and the 'protect configuration' option was checked
- C. The Service Profile association process will succeed, but your total disk capacity will be cut in half due to the change from RAID 0 to RAID 1
- D. The Service Profile association process will succeed, but it will adopt the previous Local Disk Configuration Policy instead of the new one because it had 'protect configuration' checked

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21** Which unique identity resources requires Stateless computing?

- A. UUIDs, MAC Addresses and WWNs
- B. VLANS, VSANS, Hypervisors and IP Addresses
- C. Virtual IP Addresses
- D. Service Profiles and Application Policies

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 22** Which are two Application Gateways primary roles? (Choose two.)

- A. Manage configuration changes during FSM transitions
- B. Manage configuration changes made with UCS Manager
- C. Communicate with virtual machines and report health and state
- D. Communicate with end points and report their health and state

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23** When can you use UCS Director to provision Service Profile template?

- A. For initial Service Profile template
- B. Always
- C. Never
- D. Only for updating Service Profile template

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24** Which three scalability options are applicable to Cisco HyperFlex?

(Choose three.)

- A. Add additional hyperconverged nodes to expand both storage capacity and compute resources
- B. Add compute-only nodes to expand compute resources without adding additional storage capacity
- C. Add memory-only nodes to expand memory resources without adding storage capacity
- D. Add network cards to increase IO without adding node capacity
- E. Add additional storage to existing nodes to efficiently expand storage capacity without adding compute resources
- F. Add clusters to improve overall system performance and manage with UCS Central

**Correct Answer:** ABF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

An administrator needs to configure NPV between an edge fabric switch which will support application servers, and an upstream core switch. A Fiber Channel (FC) link exist between the two switchers. What two statements are true about roles on the edge fabric switch? (Choose two.)

- A. The port that connects to the core switch will be an NP port.
- B. The ports that connect to the servers will be F ports.
- C. The port that connects the switches is a TE port.
- D. The port that connects to the core switch will be an FP port
- E. The ports that connect to the servers will be N ports.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26** ACME technologies is deploying a large number of similar UCS blade servers and want to be able to change servers policies at a later time on all blades. What type of the Cisco UCS design is recommended?

- A. Initial template based service profiles
- B. Updating template based service profile
- C. Updating non-template based service profiles
- D. Initial non-template based service profiles

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

What are the RAID levels available in the mode drop-down list of the Local Storage Policy?

- A. RAID 0, 1, 5, 10
- B. RAID 0, 1, 3, 5
- C. RAID 0, 1, 5, 6, 50, 60

- D. RAID 0, 1, 5, 6, 10
- E. RAID 0, 1, 5, 10, 50

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 28

Depending on the tab context in a Cisco UCS Manager, what three objects are contained in an Organization? (Choose three.)

- A. Identity Pools
- B. Roles
- C. Privileges
- D. Policies
- E. Service Profiles
- F. Locales

**Correct Answer:** ADE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 29

An administrator is setting up a new VSAN and needs to use IVR to allow access to backup tape storage targets located in a different VSAN. There is an existing Nexus 5K switch in the SAN fabric that the admin would like to use; however, the switch is not IVR-enabled. How can the Cisco Nexus switch be used?

- A. It cannot be used, since only MDS Switches implement IVR.
- B. As a Transit switch.
- C. As a Border switch or IVR NAT gateway.
- D. As an Edge switch.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30** How many QoS classes are available to administrators on Cisco's UCS server?

- A. 6
- B. 4
- C. 2
- D. 8

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31** Which three statements describes Service Profiles?

- A. Service Profiles define a standard convention for WWNs agreed upon by all stakeholders for address blocks
- B. Service Profiles use Cisco's OUI (00:25:B5) for the 3<sup>rd</sup> to 5<sup>th</sup> octets in WWN
- C. Service Profiles are only applicable to network configurations
- D. Service Profiles use the same hex value for 1<sup>st</sup> and 2<sup>nd</sup> octets in WWNN and WWPNN
- E. Service Profiles are a logical view of a server without any tie to physical components
- F. Service Profiles are grouped by virtual machine operating system

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32** What is contained in Service Profiles?

- A. Management and server configurations
- B. Identity and state information for a logical server
- C. Application specific service requirements
- D. State information for a physical server

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 33** Which statement is true regarding the Cisco UCS 6296UP Fabric Interconnect?

- A. Maximum number of Expansion slots: 3
- B. Form Factor: 2RU
- C. Maximum number of Ports: 96
- D. Requires UCS Performance Manager
- E. Supports 100GE

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34** Which is a gap of first generation hyperconverged solutions addressed by Cisco HyperFlex?

- A. Integrated networking configuration during deployment
- B. Support for GPUs
- C. Support for multiple hypervisors
- D. Integrated firewall for security monitoring

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which additional three traffic egress controls may be enabled in Cisco UCS Manager depending upon the network adapter selected? (Choose three.)

- A. Rate
- B. Best Effort
- C. Host Control
- D. Peak
- E. Burst
- F. Smooth

**Correct Answer:** BCE

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36** What condition requires Inter VSAN

Routing (IVR)?

- A. The targets are in the same Initiator Group.
- B. When the path between source and destination edge VSANs require the traffic to pass through several VSANs before reaching the destination.
- C. When using MDS 9000 series SAN Directors.
- D. Transit VSANs are integral to the IVR architecture and are always required.

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

A UCS admin needs to use the department Active Directory (AD) server for UCS user authorization. However, the AD administrator is reluctant to modify the AD schema, but is willing to add Group membership for UCS users. How is the UCS administrator expected to use AD?

- A. For user authorization but not for authentication.
- B. Use AD Schema User Extensions (AD/SUE) to do an on demand schema modification.
- C. Use the Group membership information to assign the authorization policy with LDAP Group Maps.
- D. Will not be able to use AD, must use the local UCS user database.

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

An application is running in a data center as a set of virtual machines running on a single physical host. The host is using an NPIV enabled HBA. What capability does this offer?

- A. Only the physical host can logically connect to the SAN fabric, thus enhancing security.
- B. The number of FIOGIs is kept at a reasonable level, and therefore cannot saturate the SAN fabric.

- C. Inter VSAN traffic can be switched directly by the HBA.
- D. Each VM initiator can be managed independently, since it will generate its own FLOGI, and have its own pWWN.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 39

In the context of Cisco's unified Computing System, which three Cisco best practices are recommended when creating WWN pools? (Choose three.)

- A. All WWN must use "20" for the first octet
- B. Define a standard convention for WWNs agreed upon by all stakeholders for address blocks
- C. Select the default values presented by UCS Central
- D. Use Cisco's OUI (00:25:B5) for the 3<sup>rd</sup> to 5<sup>th</sup> octets in WWN E. Use the same hex value for 1<sup>st</sup> and 2<sup>nd</sup> octets in WWNN and WWPN
- F. Engage the security team to request WWNs

**Correct Answer:** ADE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40** Which option is available for virtual switching in a VMware virtual environment?

- A. KVM virtual switch, distributed virtual switch, Cisco Nexus 100v
- B. Advanced virtual switch, distributed virtual switch, Cisco Nexus 100v
- C. Hypervisor virtual switch, distributed virtual switch, Cisco Nexus 100v
- D. Standard virtual switch, distributed virtual switch, Cisco Nexus 100v

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

