

Cisco.200-155.v2018-05-16.q70

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NEW QUESTION: 1

Which feature monitors state transitions of components and processes in Cisco Unified Computing System?

- A. logical state arbiter
- B. discovery
- C. finite state machine
- D. state monitor

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

Explanation:

A finite state machine (FSM) is a workflow model, similar to a flow chart, that is composed of the following:

- * Finite number of stages (states)
- * Transitions between those stages
- * Operations

The current stage in the FSM is determined by past stages and the operations performed to transition between the stages. A transition from one stage to another stage is dependent on the success or failure of an operation.

Cisco UCS Manager uses FSM tasks that run in the Data Management Engine (DME) to manage end points in the UCS object model, including the following:

- * Physical components (chassis, I/O module, servers)
- * Logical components (LAN cloud, policies)
- * Workflows (server discovery, service profile management, downloads, upgrades, backups) Reference:

http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ts/faults/reference/ErrMess/FaultsIntroduction.html#wp1082815

NEW QUESTION: 2

Which description of the purpose of an ACI is true?

- A. exposes parts of an application to be consumed or interacted with by another application.
- B. provides a software framework for developers to build applications
- C. provides a secure platform to authenticate internal users
- D. assists developers to understand the underlying code of an application

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 3

What are two functions of a Cisco UCS Fabric Interconnect in a Cisco UCS domain? (Choose two.)

- A. management
- B. comprehensive network analysis
- C. network connectivity
- D. traffic load balancing
- E. core fibre channel switching platform

Answer: A,C ([LEAVE A REPLY](#))

Section: (none)

NEW QUESTION: 4

The number of vNICs and vHBAs that can be defined on virtual interface cards in the servers that are connected to FEX is dependent on what?

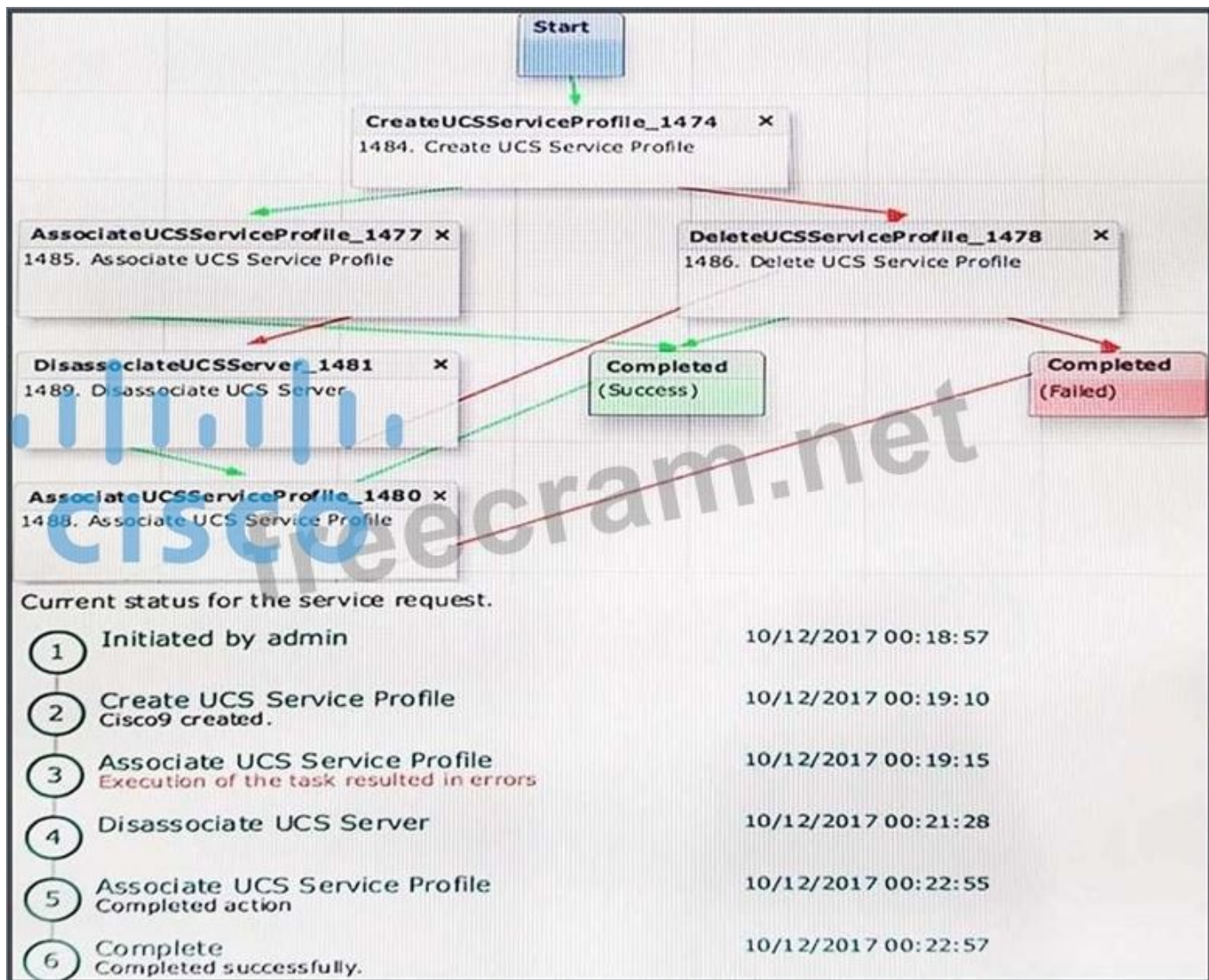
- A. the number of HBA cards
- B. the number of VSANs
- C. the number of uplinks
- D. the number of FEX devices

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 5

Refer to the exhibit. Which two description of the workflow are true? (Choose two.)



- A. It fails if the blade has an existing profile.
- B. It creates a service profile.
- C. It deletes the service profile after associating the profile to a server.
- D. It attempts to recreate the service profile if the initial attempt fails.
- E. It assigns a service profile to a blade

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

NEW QUESTION: 6

What are three components of the Cisco ACI fabric? (Choose three.)

- A. core switch
- B. access switch
- C. Cisco DCNM
- D. leaf switch
- E. spine switch
- F. Cisco APIC

Answer: (SHOW ANSWER)

Section: (none)

NEW QUESTION: 7

Policies that are applied by the APIC are typically based on which type of infrastructure?

- A. application-centric
- B. performance-specific
- C. leaf-specific
- D. network-centric

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

Explanation:

The Cisco Application Policy Infrastructure Controller (APIC) is a key component of an Application Centric Infrastructure (ACI), which delivers a distributed, scalable, multi-tenant infrastructure with external end- point connectivity controlled and grouped via application centric policies. The APIC is the key architectural component that is the unified point of automation, management, monitoring and programmability for the Application Centric Infrastructure. The APIC supports the deployment, management and monitoring of any application anywhere, with a unified operations model for physical and virtual components of the infrastructure.

Reference: https://developer.cisco.com/media/apicDcPythonAPI_v0.1/understanding.html

NEW QUESTION: 8

Refer to the exhibit. On which slots are the Cisco Nexus unified ports configured?

```
dc-switch1# show interface brief
```

Interface	Vsan	Admin Mode	Admin Trunk Mode	Status	SFP	Oper Mode	Oper Speed (Gbps)	Port Channel
fc1/25	301	auto	on	sfpAbsent	-	-	-	-
fc1/26	301	auto	on	sfpAbsent	-	-	-	-
fc1/27	301	auto	on	trunking	sw1	TE	8	-
fc1/28	301	auto	on	trunking	sw1	TE	8	-
fc1/29	301	auto	on	up	sw1	F	8	-
fc1/30	301	auto	on	up	sw1	F	8	-
fc1/31	301	auto	on	up	sw1	F	8	-
fc1/32	301	auto	on	up	sw1	F	8	-
fc2/9	301	auto	on	down	sw1	-	-	-
fc2/10	301	auto	on	sfpAbsent	-	-	-	-
fc2/11	301	auto	on	trunking	sw1	TE	8	-
fc2/12	301	auto	on	trunking	sw1	TE	8	-
fc2/13	301	auto	on	up	sw1	F	8	-
fc2/14	301	auto	on	up	sw1	F	8	-
fc2/15	301	auto	on	up	sw1	F	8	-
fc2/16	301	auto	on	up	sw1	F	8	-

Ethernet Interface	VLAN	Type	Mode	Status	Reason	Speed	Port Ch#
Eth1/1	51	eth	trunk	up	none	10G (D)	2
Eth1/2	51	eth	trunk	up	none	10G (D)	2
Eth1/3	51	eth	trunk	up	none	10G (D)	2
<<output omitted>>							
Eth1/22	1	eth	trunk	up	none	10G (D)	305
Eth1/23	1	eth	trunk	down	SFP not inserted	10G (D)	307
Eth1/24	1	eth	trunk	down	Link not connected	10G (D)	307
Eth2/1	51	eth	trunk	up	none	10G (D)	2
Eth2/2	51	eth	trunk	up	none	10G (D)	2
Eth2/3	51	eth	trunk	up	none	10G (D)	101
Eth2/4	51	eth	trunk	up	none	10G (D)	101
Eth2/5	51	eth	trunk	down	Link not connected	1000 (D)	-
Eth2/6	1	eth	trunk	up	none	10G (D)	309
Eth2/7	1	eth	trunk	up	none	10G (D)	310
Eth2/8	1	eth	trunk	down	SFP not inserted	10G (D)	-

- A. slot 1 and slot 2
- B. slot 1
- C. slot 3
- D. slot2 and slot 3

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 9

When configuring virtual PortChannels on Cisco Nexus switches, what does the vPC domain consist of?

- A. two vPC peer switches connected by a virtual switch link
- B. two VSS peer switches connected by a peer link

- C. two VSS peer switches connected by a port channel
- D. two vPC peer switches connected by a peer link

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 10

- A. It simplifies the STP design.
- B. allows a physical port to be shared among multiple virtual Ethernet switches.
- C. It allows multiple logical switches to be created by using a single physical switch.
- D. It allows each VDC to run a different version of Cisco NX-OS.
- E. Faults are isolated and contained within the specific VDC.

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 11

Which description of switch discovery on a Cisco APIC is true?

- A. The APIC assigns an IP address to the switch from a pool.
- B. Only leaf switches are discovered automatically.
- C. A switch can be registered to multiple APIC clusters.
- D. A switch registers with the APIC automatically.

Answer: B ([LEAVE A REPLY](#))

Section: (none)

NEW QUESTION: 12

Which two adapters for Cisco UCS B-Series blade servers and C-Series rack servers allow configuration of virtual interfaces? (Choose two.)

- A. M81-KR
- B. P71E
- C. VIC-1225
- D. P61E
- E. VIC-1280

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 13

Which Cisco UCS Manager account is the default user account, which cannot be deleted or modified?

- A. admin
- B. superuser
- C. super user

D. root

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 14

Which benefit is realized by using a fabric extender?

- A. improved data rates
- B. reduced routing complexity
- C. cut-through local, nonblocking switching
- D. central control and management by its parent switch

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 15

How many VRFs are present in Cisco Nexus OS by default?

- A. 0
- B. 1
- C. 2
- D. 4

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Management VRF and Default VRF

Each router has a management VRF and a default VRF:

Management VRF

The management VRF is for management purposes only.

Only the mgmt 0 interface can be in the management VRF.

The mgmt 0 interface cannot be assigned to another VRF.

The mgmt 0 interface is shared among multiple VDCs.

No routing protocols can run in the management VRF (static only).

Default VRF

All Layer 3 interfaces exist in the default VRF until they are assigned to another VRF.

Routing protocols run in the default VRF context unless another VRF context is specified.

The default VRF uses the default routing context for all show commands.

The default VRF is similar to the global routing table concept in Cisco IOS.

Reference: <https://supportforums.cisco.com/document/133711/vrf-configuration-and-verification-nexus-7000>

NEW QUESTION: 16

You must recommend a management solution for a Cisco UCS system. Which option accurately describes Cisco UCS Director?

- A. the full-feature version of Cisco UCS Manager with all of the management functions enabled
- B. a replacement for Cisco UCS Manager in large-scale environments
- C. an orchestrator to automate some of the steps that are required to configure a Cisco UCS domain
- D. only an orchestration plug-in for Cisco UCS Manager that has no management capabilities

Answer: ([SHOW ANSWER](#))

Section: (none)

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NEW QUESTION: 17

A network engineer configures FEX0101 on a Cisco Nexus 5596UP switch. Based on the output below, which interface is valid on the FEX?

```
switch# show fex 101
```

```
FEX: 101 Description: FEX0101 state: Online
```

```
FEX version: 7.2(1)N1(1) [Switch version: 7.2(1)N1(1)]
```

```
Extender Model: N2K-C2248 TP-1GE, Extender Serial: JAF 123456789
```

```
Part No: 73-12748-01
```

```
pinning-mode: static Max-links: 1
```

```
Fabric port for control traffic: Eth1/47
```

```
Fabric interface state:
```

```
Po147 - Interface Up. State: Active
```

```
Eth 1/47 - Interface Up. State: Active
```

```
Eth1/48 - Interface Up. State: Active
```

A. Ethernet 1/46

B. FC 101/1/2

C. Ethernet 1/48

D. Ethernet 101/1/1

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 18

A network engineer is configuring a pair of 6248 Fabric Interconnects, each with dual 10G uplinks to a parent switch. One design requirement is to ensure a specific server is able to use 10G of throughput to the LAN without contention from other servers within the 5108 chassis. Which technology will accomplish this?

- A. Port-Channels
- B. Unified Ports
- C. LAN Pin Groups
- D. System QoS Policy

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 19

Refer to the exhibit. Which statement is true based on the output from the show vdc command?



```
NEXUSSW7700# show vdc
```

Switchwide mode is f2e f3

vdc_id	vdc_name	state	mac	type	lc
1	NEXUSSW7700	active	00 : 2a : 6a : a7 : 62 : 41	Admin	None
2	mgmt	active	00 : 2a : 6a : a8 : 68 : 42	Ethernet	f3
3	prod	active	00 : 2a : 6a : b4 : 63 : 43	Ethernet	f3
4	test1	active	00 : 2a : 6a : b4 : 63 : 44	Ethernet	f3

- A. The admin VDC is unconfigured.
- B. There are four VDCs that can forward Ethernet traffic.
- C. The user is in the admin VDC.
- D. Only the test1 VDC can forward traffic.

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 20

- A. pass-through switching
- B. store-and-forward switching
- C. channeled uplink
- D. hypervisor controlled
- E. native switching

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 21

The Cisco UCS Manager is embedded in which component of the Cisco UCS system?

- A. Cisco UCS IOM module
- B. Cisco UCS B-Series server
- C. Cisco UCS Fabric Interconnect
- D. Cisco UCS C-Series server

Answer: C ([LEAVE A REPLY](#))

Section: (none)

NEW QUESTION: 22

A customer has two Cisco UCS 6248 Fabric Interconnects in a cluster connected to one Cisco UCS 5108 Chassis via:

- 2 ports from the primary fabric interconnect to chassis 1, I/O module A
 - 2 ports from the secondary fabric interconnect to chassis 1, I/O module B
- The customer wants to ensure maximum redundancy and bandwidth. Within Cisco UCS Manager, how should the chassis discovery policy and link grouping be configured before the new chassis is discovered?

- A. 4-link, none
- B. 2-link, none
- C. 2-link, port channel
- D. 4-link, port channel

Answer: ([SHOW ANSWER](#)**)**

Section: (none)

Explanation/Reference:

Explanation:

Link: http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-0/b_UCSM_GUI_Configuration_Guide_2_0/b_UCSM_GUI_Configuration_Guide_2_0_chapter_01100.html

NEW QUESTION: 23

What is another term for data plane?

- A. signaling plane
- B. control plane
- C. forwarding plane
- D. management plane

Answer: ([SHOW ANSWER](#)**)**

Section: (none)

NEW QUESTION: 24

Which Layer 3 protocol is used within the ACI fabric?

- A. OpenFlow
- B. EIGRP
- C. OSPF
- D. IS-IS

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 25

FCoE interfaces are defined as which two port types? (Choose two.)

- A. VZ Port
- B. VE Port
- C. VF Port
- D. VI Port
- E. VS Port

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

VF PortBeginning in Cisco NX-OS Release 5.0(2)N1(1), vFC interfaces always operate in trunk mode; vFC interfaces do not operate in any other mode. You can configure allowed VSANs on a vFC by using theswitchport trunk allowed vsan command under the vfc interface (which is similar to FC TF and TE ports). For vFC interfaces that are connected to hosts, port VSAN is the only VSAN that supports logins (FLOGI). We recommend that you restrict the allowed VSANs for such vFC interfaces to the port VSAN by using theswitchport trunk allowed vsan command in the interface mode to configure a VF port.

Cisco NX-OS Release 5.0(2)N1(1) includes support for 160 vFC interfaces.

The vFC VSAN assignment and the global VLAN-to-VSAN mapping table enables the Cisco Nexus 5000 Series switch to choose the appropriate VLAN for a VF port.

The VF port support over 10G-FEX interfaces feature is supported only in Cisco Nexus 2000 Series Fabric Extender straight-through topologies where each Fabric Extender is directly connected to a Cisco Nexus

5000 Series switch.

VE PortsA virtual E port (VE port) is a port that emulates an E port over a non-Fibre Channel link. VE port connectivity between Fibre Channel Forwarders (FCFs) is supported over point-to-point links. These links can be individual Ethernet interfaces or members of an Ethernet port-channel interface. For each of the FCF connected Ethernet interfaces you must create and bind an vFCinterface to the Ethernet interface.

Configure vFC interfaces as VE ports by using the switchport mode e command in interface mode.

VE ports have the following guidelines:

Auto mode on the vFC is not supported.

VE Port trunking is supported over FCoE-enabled VLANs.

VE Port interface binding to MAC addresses is not supported.

By default the VE Port is enabled for trunk mode.

You can configure multiple VSANs on the VE port. You must configure the FCoE VLANs that correspond to the VE port's VSANs on the bound Ethernet interface.

The Spanning Tree Protocol is disabled on the FCoE VLANs on any interface that a vFC interface is bound to, which includes the interfaces that the VE ports are bound to.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/san_switching/502_n2_1/b_Cisco_n5k_nxos_sanswitching_config_guide_rel502_n2_1/Cisco_n5k_nxos_sanswitching_config_guide_rel502_n2_1_chapter3.html

NEW QUESTION: 26

Which statement about EPGs is true?

- A. EPGs can both provide and consume a contract.
- B. EPGs can provide, but cannot consume a contract.
- C. EPGs can consume, but cannot provide a contract.
- D. EPGs neither provide or consume contracts.

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Contracts define inbound and outbound permit, deny, and QoS rules and policies such as redirect. Contracts allow both simple and complex definition of the way that an EPG communicates with other EPGs, depending on the requirements of the environment. Although contracts are enforced between EPGs, they are connected to EPGs using provider-consumer relationships. Essentially, one EPG provides a contract, and other EPGs consume that contract.

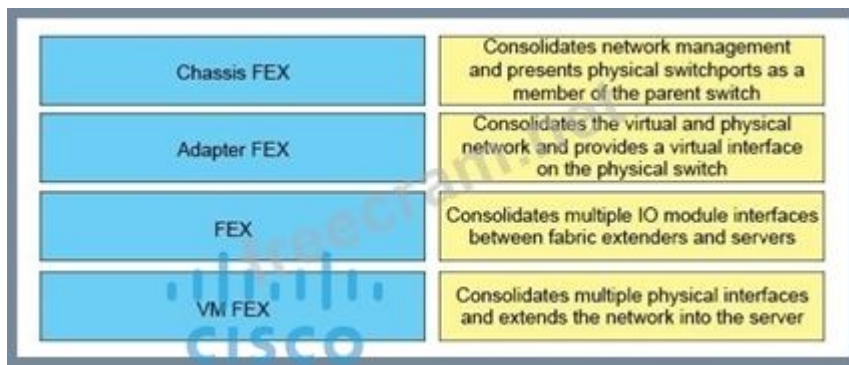
Reference: http://www.cisco.com/en/US/prod/collateral/netmgtsw/ps13004/ps13460/white-paper-c11-729906_ns1261_Networking_Solutions_White_Paper.html

NEW QUESTION: 27

DRAG DROP

Drag the Network virtualization technology on the left to the correct definition on the right.

Select and Place:



Answer:



Section: (none)

NEW QUESTION: 28

A user is trying to create a new VDC in NX-OS in global configurations mode, but receives an error message. What issue prevents the user from creating Virtual Device Context?

- A. VDCs cannot be created in global configuration mode.
- B. The user is not a vdc-admin.
- C. The user is not a member of the VDC Power Admin group.
- D. The user is not a network-admin.

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

VDCs have the following configuration guidelines and limitations:

Standard VDCs cannot share interfaces, VLANs, Virtual Routing and Forwarding (VRF) tables, or port channels.

Only users with the network-admin role can create VDCs.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/virtual_device_context/configuration/guide/b-7k-Cisco-Nexus-7000-Series-NX-OS-Virtual-Device-Context-Configuration-Guide/creating-vdc.html#concept_967368376CF246FA8B200C78081B389A

NEW QUESTION: 29

Which two devices are supported for connecting a server to the Cisco UCS 6248 Fabric Interconnect? (Choose two.)

- A. Cisco UCS 5108
- B. Cisco Nexus 5548P
- C. Cisco Nexus 2248TP
- D. Cisco UCS 2208XP
- E. Cisco Nexus 2232PP

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 30

- A. virtual infrastructure
- B. storage
- C. physical infrastructure
- D. network

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 31

What are two benefits of blade servers as compared to rack servers? (Choose two.)

- A. higher performance
- B. fewer cables
- C. Easier to provision
- D. more disk space
- E. lower initial cost of one server

Answer: ([SHOW ANSWER](#))

Section: (none)

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NEW QUESTION: 32

Which two options are control plane protocols? (Choose two.)

- A. BGP
- B. ARP
- C. NAT
- D. SMTP
- E. CoPP

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

Explanation:

Explanation: The control plane: The control plane is the brain of the router. It consists of dynamic IP routing protocols (that is OSPF, IS-IS, BGP, and so on), the RIB, routing updates, in addition to other protocols such as PIM, IGMP, ICMP, ARP, BFD, LACP, and so on. In short, the control plane is responsible for maintaining sessions and exchanging protocol information with other router or network devices.

Reference: <http://www.ciscopress.com/articles/article.asp?p=2272154&seqNum=3>

NEW QUESTION: 33

To specify the minimum number of connections between the I/O modules and the Cisco UCS Fabric Interconnects, which Cisco UCS policy do you configure?

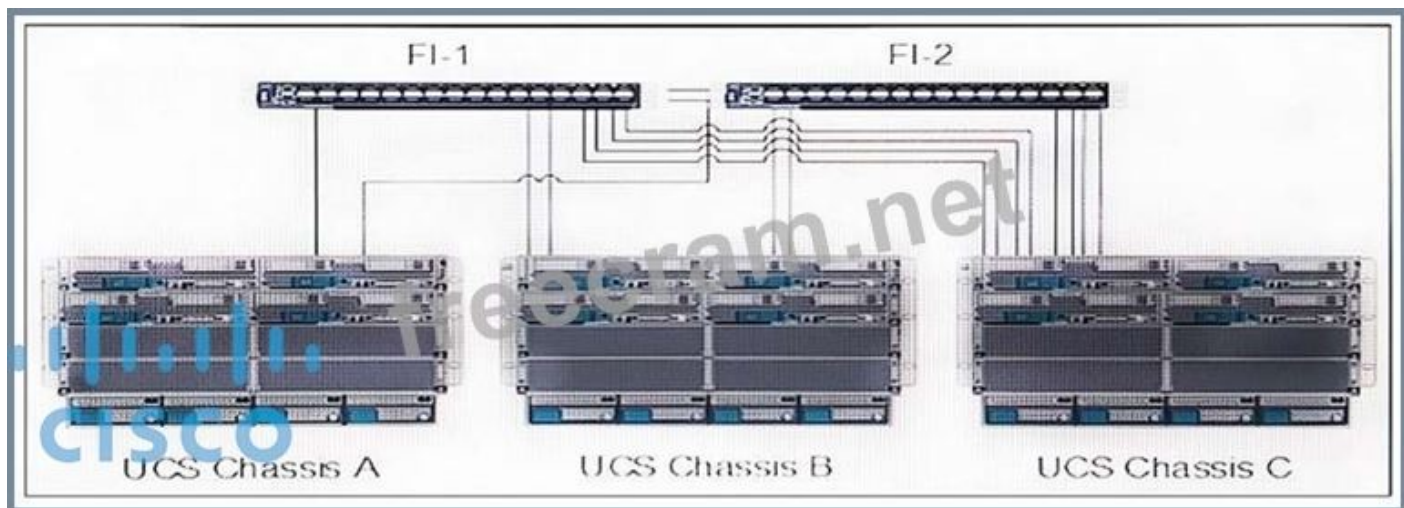
- A. chassis discovery policy
- B. local disk configuration policy
- C. BIOS policy
- D. boot policy

Answer: (SHOW ANSWER)

Section: (none)

NEW QUESTION: 34

Refer to the exhibit. A four-link chassis discovery policy is configured in Cisco UCS Manager. Which component s are discovered when the chassis components connect to the fabric interconnects?



- A. UCS Chassis B and UCS Chassis C
- B. UCS Chassis C
- C. UCS Chassis B
- D. UCS Chassis A, UCS Chassis B, and UCS Chassis C

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 35

FabricPath technology uses which two types of ports? (Choose two.)

- A. F Port
- B. NL Port
- C. E Port
- D. edge port
- E. core port

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 36

What are two features of a Cisco Nexus 2232TM Fabric Extender? (Choose two.)

- A. 10 Gigabit uplinks
- B. RJ45 host interfaces
- C. unified ports
- D. 4 uplink ports
- E. side-to-back airflow

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/nexus-2000-series-fabric-extenders/data_sheet_c78-507093.html

NEW QUESTION: 37

Where do all Layer 3 interfaces exist until they are assigned to another VRF?

- A. the management VRF
- B. the admin VRF
- C. the default VRF
- D. VRF 0

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 38

Which definition of the REST API for a Cisco APIC is true?

- A. It includes classes and methods as programmatic entities.
- B. It contains the management information tree.
- C. It accepts and returns HTTPS messages that contain JSON or XML documents.
- D. It stores the configuration information and the state information of the APIC.

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 39

Which plane does a router use to exchange topology information to build a routing table?

- A. back plane
- B. data plane
- C. control plane
- D. management plane

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 40

- A. vPC keepalive link
- B. vPC control link
- C. vPC management link
- D. vPC peer link
- E. vPC overlay link

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

The vPC peer link is the most important connectivity element in the vPC system. This link is used to create the illusion of a single control plane by forwarding Bridge Protocol data units (BPDUs) or Link

Aggregation Control Protocol (LACP) packets to the primary vPC switch from the secondary vPC switch.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/nexus-5000-series-switches/design_guide_c07-625857.html

NEW QUESTION: 41

Which statement about Cisco Nexus 1000V Series switches that operate inside VMware ESXi Hypervisors is true?

- A. A mobile virtual machine network policy is not provided.
- B. A disruptive operational model for your server virtualization and networking teams is provided.
- C. Mobile virtual machine security is not provided.
- D. Policy-based virtual machine connectivity is provided.

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 42

A network engineer is migrating the server farm from 1 Gb/s Ethernet connectivity to 10 Gb/s Ethernet connectivity. What two Cisco Nexus Fabric Extenders support 10 Gb/s server connectivity? (Choose two.)

- A. Nexus 2148T
- B. Nexus 2232PP
- C. Nexus 2248TP
- D. Nexus 2248PQ
- E. Nexus 2224TP

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/nexus-2000-series-fabric-extenders/data_sheet_c78-507093.html

NEW QUESTION: 43

Which technology prevents the flooding of unknown unicast traffic across an IP link between two data centers?

- A. OTV
- B. VPLS
- C. MPLS
- D. TRILL

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 44

A network design engineer is asked to design a SAN for a company. Which two underlying principles of SAN design should be considered? (Choose two.)

- A. fault isolation, consolidation while maintaining isolation
- B. future growth in LAN infrastructure
- C. security management, preferential network security
- D. scalability of LAN infrastructure, reduced Ethernet QoS complexity
- E. short and long term port density and topology requirements

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

Explanation:

Principles of SAN Design

The underlying principles of SAN design are relatively straightforward: plan a network topology that can handle the number of ports necessary now and into the future; design a network topology with a given end-to-end performance and throughput level in mind, taking into account any physical requirements of a design (for example, whether the data center is or will in the future be located on multiple floors of a building or in multiple buildings or locations); and provide the necessary connectivity with remote data centers to handle the business requirements of business continuity and disaster recovery.

These underlying principles fall into five general categories:

- * Port density and topology requirements-Number of ports required now and in the future
- * Device performance and oversubscription ratios-Determination of what is acceptable and what is unavoidable
- * Traffic management-Preferential routing or resource allocation
- * Fault isolation-Consolidation while maintaining isolation
- * Control plane scalability-Reduced routing complexity

Reference: http://www.cisco.com/c/en/us/products/collateral/interfaces-modules/storage-networking-modules/prod_white_paper0900aecd8044c807.html

NEW QUESTION: 45

What are three components of a Cisco UCS blade server system? (Choose three.)

- A. Cisco UCS B-Series chassis
- B. Cisco UCS C-Series server
- C. Cisco UCS B-Series server
- D. Cisco Nexus 5548UP Switch
- E. Cisco UCS Fabric Interconnect
- F. Cisco UCS C-Series chassis

Answer: (SHOW ANSWER)

Section: (none)

NEW QUESTION: 46

What are two benefits of Cisco FabricPath? (Choose two.)

- A. provides increased time to convergence
- B. increases availability with multipathing over all links
- C. uses spanning tree to eliminate switching loops
- D. provisions additional network bandwidth without affecting the network
- E. provides multivendor compatibility

Answer: A,D ([LEAVE A REPLY](#))

Section: (none)

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NEW QUESTION: 47

What are two roles of a hypervisor in a data center? (Choose two.)

- A. provides management for physical network devices
- B. provides management for physical servers
- C. virtualizes bare-metal server resources and provides resources to virtual machines
- D. partitions physical servers into multiple virtual machines
- E. virtualizes network devices and provides resources to virtual devices

Answer: A,C ([LEAVE A REPLY](#))

Section: (none)

NEW QUESTION: 48

You are creating a workflow by using the Workflow Designer in Cisco UCS Director. Which three tasks are preconfigured in the workflow by default? (Choose three.)

- A. Physical Network tasks
- B. Start
- C. Service Container tasks
- D. Completed (Success)
- E. Public Cloud tasks
- F. Completed (Failed)

Answer: (SHOW ANSWER)

Section: (none)

NEW QUESTION: 49

What is a key benefit of using Cisco UCS C-Series servers instead of Cisco UCS B-Series servers?

- A. Cisco UCS C-Series servers provide more flexible disk and add-on card options.
- B. Cisco UCS C-Series servers provide better processor efficiency.
- C. Cisco UCS C-Series servers reduce wiring complexity.
- D. Cisco UCS C-Series servers are rack-mountable servers.

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 50

- A. logical virtualization of a single physical switch
- B. logical switches aggregated into a single physical switch
- C. logical switches aggregated into multiple physical switches
- D. multiple physical switches partitioned to a single virtual switch

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Cisco NX-OS introduces support for virtual device contexts (VDCs), which allows the switches to be virtualized at the device level. Each configured VDC presents itself as a unique device to connected users within the framework of that physical switch. The VDC runs as a separate logical entity within the switch, maintaining its own unique set of running software processes, having its own configuration, and being managed by a separate administrator.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/nexus-7000-10-slot-switch/White_Paper_Tech_Overview_Virtual_Device_Contexts.html

NEW QUESTION: 51

To uniquely define server instances in the Cisco UCS system, what do you configure?

- A. service profile
- B. vMotion
- C. UUID resource pool
- D. vNIC template

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 52

An engineer is configuring the UCS Fabric Interconnects for network connectivity to the data center LAN and SAN. Which two ports types need to be configured to allow traffic to flow properly? (Choose two.)

- A. Ethernet uplink
- B. server uplink
- C. appliance

D. Fibre Channel uplink

E. Fibre Channel storage

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Cisco UCS Fabric Interconnects provide these port types:

Server Ports-Server Ports handle data traffic between the Fabric Interconnect and the adapter cards on the servers.

You can only configure Server Ports on the fixed port module. Expansion modules do not support Server Ports.

Uplink Ethernet Ports-Uplink Ethernet Ports connect to external LAN Switches. Network bound Ethernet traffic is pinned to one of these ports.

You can configure Uplink Ethernet Ports on either the fixed module or an expansion module.

Uplink Fibre Channel Ports-Uplink Fibre Channel Ports connect to external SAN Switches. Network bound Fibre Channel traffic is pinned to one of these ports.

Reference: <http://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-6120xp-20-port-fabric-interconnect/110267-ucs-uplink-ethernet-connection.html>

NEW QUESTION: 53

Which policy is typically required for communication between two EPGs within an ACI fabric?

A. contracts

B. VRF

C. bridge domain

D. VLAN

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 54

Refer to the exhibit. An engineer is presented with a VMware ESX cluster consisting of two VMware ESX hosts running Nexus 1000v. The guest system inventory consists of 100 static virtual desktops. What change will permit all 100 guests to be online at the same time?



- A. increase the subnet size for VLAN 10 on the 4500x core
- B. increase the max-ports setting for the VLAN 10
- C. increase the global max-ports setting in the Nexus 1000v
- D. increase the max-ports setting for both VLAN 10 and 20

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 55

A network engineer wants to configure switch ports on Cisco Nexus 2000 and 2200 Fabric Extender switches that are connected to a Cisco Nexus 5500 Series Switch. Which two options allow this configuration? (Choose two.)

- A. Connect to each of the Cisco Nexus 2200/2000 switches using Telnet, then configure the FEX switch ports.
- B. Connect to a Cisco Nexus 5500 using Telnet, then configure the FEX switch ports.
- C. Connect to each of the Cisco Nexus 2200/2000 switches using a console cable, then configure the FEX switch ports.
- D. Connect to each of the Cisco Nexus 2200/2000 switches using SSH, then configure the FEX switch ports.
- E. Connect to a Cisco Nexus 5500 switch using SSH, then configure the FEX switch ports.

Answer: (SHOW ANSWER)

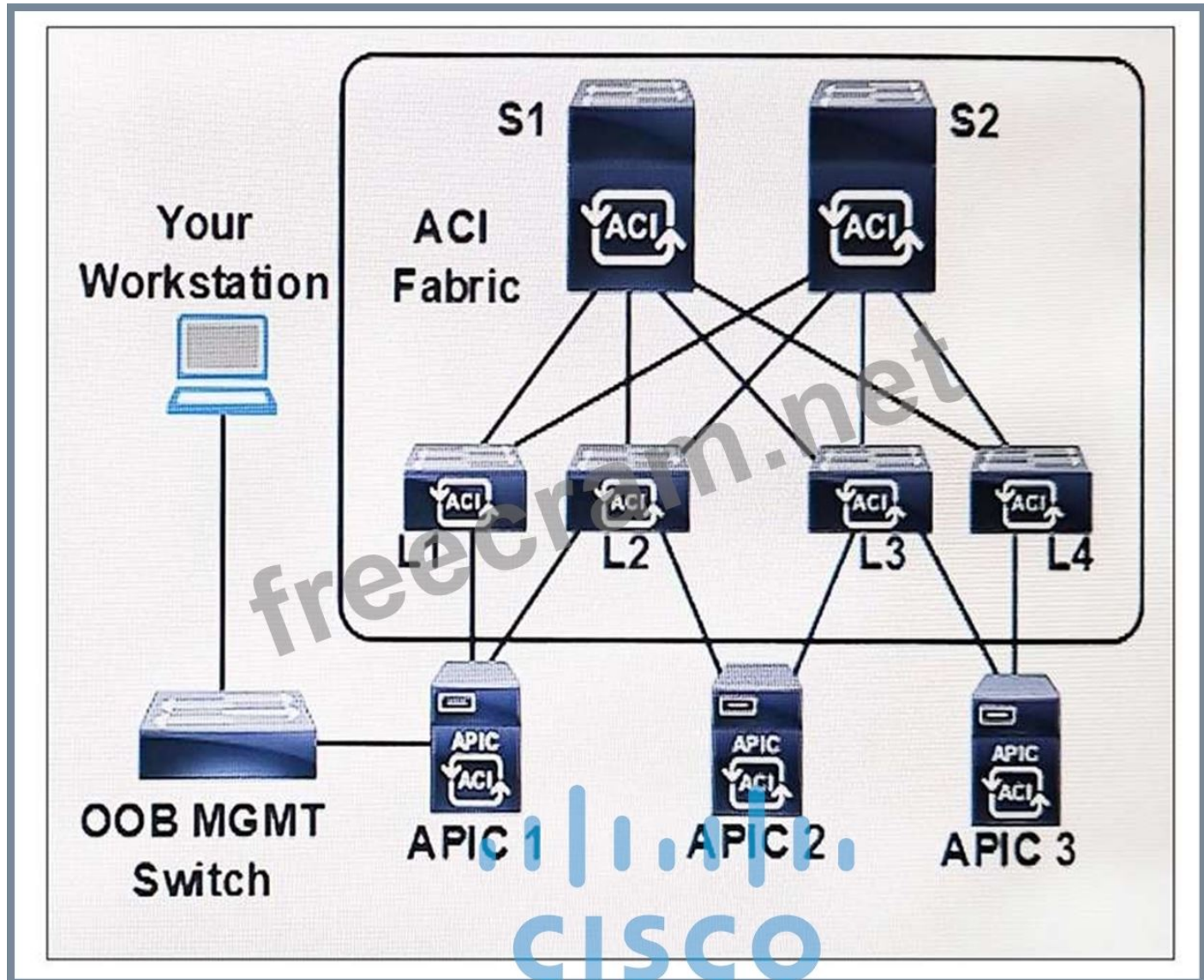
Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 56

Refer to the exhibit. Which option is discovered after L1 registers to APIC 1?



- A. S1
- B. OOB MGMT switch
- C. APIC 2
- D. L2

Answer: D ([LEAVE A REPLY](#))

Section: (none)

NEW QUESTION: 57

Which two components are part of the Cisco Unified Computing System 2104 I/O Module? (Choose two.)

- A. multiplexer

- B. chassis management console
- C. finite state machine
- D. data management engine
- E. chassis management controller

Answer: A,E ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 58

A UCS administrator has been tasked with creating a new server profile. Which two pools can be used to assign Layer 2 interface information? (Choose two.)

- A. Server
- B. Mac Address
- C. IP address
- D. UUID
- E. WWN

Answer: B,E ([LEAVE A REPLY](#))

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 59

Where does the data plane operate on a Cisco Nexus 7000 Series Switch?

- A. supervisor module
- B. unified crossbar fabric
- C. unified port controller
- D. Connectivity Management Processor

Answer: ([SHOW ANSWER](#)**)**

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 60

- A. task names
- B. workflow structure
- C. admin input values
- D. custom tasks
- E. script modules

Answer: ([SHOW ANSWER](#)**)**

Section: (none)

NEW QUESTION: 61

Which two chassis discovery policy settings allow for a UCS chassis to be connected to a pair of Fabric Interconnect using only two physical connections? (Choose two.)

- A. 4-link
- B. 2-link
- C. 8-link
- D. 1-link
- E. Platform-max

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Number of Links Wired for the Chassis	1-Link Chassis Discovery Policy	2-Link Chassis Discovery Policy	4-Link Chassis Discovery Policy	8-Link Chassis Discovery Policy	Platform-Max Discovery Policy
2 links between IOM and fabric interconnects	Chassis is discovered by Cisco UCS Manager and added to the Cisco UCS domain as a chassis wired with 1 link. After initial discovery, acknowledge the chassis and Cisco UCS Manager recognizes and uses the additional links.	Chassis is discovered by Cisco UCS Manager and added to the Cisco UCS domain as a chassis wired with 2 link.	Chassis cannot be discovered by Cisco UCS Manager and is not added to the Cisco UCS domain.	Chassis cannot be discovered by Cisco UCS Manager and is not added to the Cisco UCS domain.	Chassis cannot be discovered by Cisco UCS Manager and is not added to the Cisco UCS domain.

Reference: http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-0/b_UCSM_GUI_Configuration_Guide_2_0/b_UCSM_GUI_Configuration_Guide_2_0_chapter_01100.html

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NEW QUESTION: 62

What is an advantage of cloud computing?

- A. minimal downtime
- B. limited control
- C. vendor lock-in
- D. cost savings

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

Reference:

<http://www.levelcloud.net/why-levelcloud/cloud-education-center/advantages-and-disadvantages-of-cloud-computing/>

NEW QUESTION: 63

What is the purpose of Fibre Channel over Ethernet?

- A. FCoE maps native Fibre Channel onto Layer 2 Ethernet, Converging IP storage networks.
- B. FCoE encapsulates native Fiber Channel traffic inside GRE tunnels.
- C. Data Center Bridging uses FCoE to transport IP traffic over native Fiber Channel.
- D. FCoE encapsulates native Fiber Channel inside IP packets.

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

FCoE maps Fibre Channel onto Layer 2 Ethernet, allowing the combination of LAN and SAN traffic onto a link and enabling SAN users to take advantage of the economy of scale, robust vendor community and roadmap of Ethernet.

Reference: https://www.cisco.com/en/US/solutions/collateral/ns340/ns517/ns224/ns945/ns1060/at_a_glance_c45-578384.pdf

NEW QUESTION: 64

Which two statements accurately describe a Cisco UCS service profile? (Choose two.)

- A. LAN and SAN policies are inherited from the root profile.

- B. A service profile contains the policies that are required for a server.
- C. A service profile contains the operating system to be used by a logical server.
- D. A service profile contains the logical identity for a server.
- E. One compute node can have several profiles simultaneously.

Answer: B,C ([LEAVE A REPLY](#))

Section: (none)

NEW QUESTION: 65

Which Cisco Nexus 2000 Series Fabric Extender supports FCoE?

- A. 2232TM
- B. 2148T
- C. 2248TP
- D. 2232PP
- E. 2248T

Answer: ([SHOW ANSWER](#)**)**

Section: (none)

Explanation/Reference:

Explanation:

Reference: <http://www.cisco.com/c/en/us/products/switches/nexus-2000-series-fabric-extenders/models-comparison.html#~10gfx>

NEW QUESTION: 66

Layer 3 networks can be logically separated by which technology?

- A. bridge domain
- B. VRF
- C. VLAN
- D. tenant

Answer: ([SHOW ANSWER](#)**)**

Section: (none)

Explanation/Reference:

Explanation:

NEW QUESTION: 67

Refer to the exhibit. Which option do you configure to correct the vPC configuration between two peer switches?

```
!!!! Configuration form Switch A
vpc domain 1
  role priority 100
  peer-keepalive destination 172.16.31.35
source 172.16.31.34
  delay restore 150
  peer-gateway
  fabricpath switch-id 200
  ip arp synchronize
```

```
!!!! Configuration form Switch B
vpc domain 2
  role priority 100
  peer-keepalive destination 172.16.31.34
source 172.16.31.35
  delay restore 150
  peer-gateway
  fabricpath switch-id 200
  ip arp synchronize
```

- A. unique role priority value
- B. unique fabricpath switch-id
- C. identical domain IDs
- D. identical peer-keepalive IP addresses

Answer: ([SHOW ANSWER](#))

Section: (none)

NEW QUESTION: 68

Which tool organizes workflows to automate simple and complex actions on infrastructure?

- A. Cisco UCS Manager
- B. Cisco UCS Director
- C. Cisco DCNM
- D. Cisco UCS server

Answer: ([SHOW ANSWER](#))

Section: (none)

Explanation/Reference:

Explanation:

You can build Cisco UCS Director workflows to automate simple or complex provisioning and configuration processes.

Reference: https://www1.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/HP-OA-Mgt-Guide/6-0/b_Cisco_UCS_Director_HP_OA_Management_Guide_60/b_Cisco_UCS_Director_HP_OA_Management_Guide_60_chapter_010.html

NEW QUESTION: 69

Which technology maintains Fibre Channel virtual links between a pair of FCoE devices?

- A. ETS**
- B. FLOGI**
- C. PFC**
- D. FIP**

Answer: (SHOW ANSWER)

Section: (none)

NEW QUESTION: 70

- A. lower total cost of ownership**
- B. reduced memory requirements**
- C. increased storage capacity**
- D. improved security**

Answer: (SHOW ANSWER)

Section: (none)

Explanation/Reference:

Explanation:

Cisco Unified Fabric is the interconnection point for applications, stored data, and users that can help you:

- * Build an intelligent, high-performing infrastructure with multidimensional scalability for the data center network
- * Simplify your data center architecture and reduce costs with LAN and SAN convergence, helping you reduce capital costs with fewer devices, simpler management, and more flexible configuration policies
- * Create an open, programmable network backbone that is easier and faster to deploy and manage

Reference: http://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/at_a_glance_c45-617345.pdf

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