

## 210-451 Dumps

### Understanding Cisco Cloud Fundamentals

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**NEW QUESTION 1**

A sales group requires access to cloud resources for a six-month project. The budget is limited, and the sales group wants to pay for only what it actually uses. Which type of cloud deployment fulfills the project requirements?

- A. hybrid
- B. community
- C. public
- D. business private

**Answer: C**

**NEW QUESTION 2**

Which administrative task is most disruptive to a Cisco UCS B-Series cluster?

- A. reboot of a Fabric Interconnect
- B. changing the switching mode of a Fabric Interconnect
- C. re-seating a server
- D. resetting an IOM

**Answer: B**

**NEW QUESTION 3**

Which statement about the differences between vSwitch and DVS is true?

- A. vSwitch supports Spanning Tree Protocol.
- B. DVS supports Spanning Tree Protocol.
- C. vSwitch supports private VLAN.
- D. DVS supports private VLAN.

**Answer: D**

**NEW QUESTION 4**

A large pharmaceutical company asks its IT services staff to select and deploy to the cloud. The company collects sensitive data on its results across a wide array of drug trials. Which cloud deployment method would be most appropriate for the design?

- A. public
- B. community
- C. hybrid
- D. private

**Answer: A**

**NEW QUESTION 5**

A software development company is using an automation tool to create thousands of virtual machines to test daily software builds. When the tests are finished, the virtual machines are automatically deleted. Which characteristic of cloud computing makes this feature achievable?

- A. elasticity
- B. service catalog
- C. resource pooling
- D. multitenancy

**Answer: C**

**NEW QUESTION 6**

Which three-tier model can be used when deploying a new virtual container into the cloud?

- A. web-application-database
- B. private-public-hybrid
- C. IAAS-PAAS-SAAS
- D. core-distribution-access

**Answer: C**

**NEW QUESTION 7**

An engineer must select a converged infrastructure that utilizes EMC storage. Which two types of architectures could the engineer use to complete this task? (Choose two.)

- A. VersaStack
- B. VSPEX
- C. Vblock
- D. OpenBlocks
- E. FlexPod

**Answer: CE**

**NEW QUESTION 8**

Which three are the components of Cisco InterCloud solution? (Choose three.)

- A. Cisco InterCloud Fabric Director
- B. Cisco InterCloud Fabric Provider Platform
- C. Cisco InterCloud Fabric Secure Cloud Extension
- D. Cisco InterCloud Fabric Portal
- E. Cisco InterCloud Fabric Secure Cloud Protocol
- F. Cisco InterCloud Fabric Service Platform

**Answer:** ABC

**NEW QUESTION 9**

What best describes server virtualization?

- A. Server virtualization is the masking of server resources (including the number and identity of individual physical servers, processors, and operating systems) from server users.
- B. System virtualization is the use of software to allow a piece of hardware to run multiple operating system images at the same time.
- C. A method of combining the available resources in a network by splitting up the available bandwidth into channels, each of which is independent from the others, and each of which can be assigned (or reassigned) to a particular server or device in real time.
- D. Pooling of physical storage from multiple network storage devices into what appears to be a single storage device that is managed from a central console

**Answer:** A

**NEW QUESTION 10**

Which API structure does Cisco UCS Manager support?

- A. JSON
- B. XML
- C. RUBY
- D. PERL

**Answer:** B

**NEW QUESTION 10**

What is "cloud bursting"?

- A. A cloud deployment exhausts its infrastructure resources.
- B. An organization can provision public cloud services to use during periods of stress of its internal IT resources.
- C. Two public cloud providers work in conjunction to load balance requests from a consumer.
- D. A private cloud can transform physical workloads into virtual workloads.

**Answer:** B

**NEW QUESTION 15**

An engineer has just deployed a Cisco Nexus 1000V. Where does the engineer log in to make configuration changes?

- A. Virtual Security Gateway
- B. Virtual Ethernet Module
- C. Virtual Supervisor Module
- D. Virtual Access Module

**Answer:** C

**NEW QUESTION 16**

A company wants to take advantage of the latest virtualization technologies while still ensuring high levels of security, privacy, corporate control, and management visibility. Which cloud deployment model meets these requirements?

- A. hybrid
- B. private
- C. public
- D. community

**Answer:** A

**NEW QUESTION 18**

Which of the following most accurately describes the default role of Server Equipment Administrator in UCSM?

- A. Read and write access to physical server related operation
- B. Read access to the rest of the system.
- C. Read and write access to logical and physical server related operation
- D. Read and write access to the rest of the system.
- E. Read and write access to logical and physical server related operation
- F. Read access to the rest of the system.
- G. Read and write access to physical server related operation
- H. Read and write access to the rest of the system.

**Answer:** A

**NEW QUESTION 22**

Which Cisco product is outside of a Vblock?

- A. Cisco Nexus 1k
- B. Cisco C-Series UCS
- C. Cisco Nexus 3k
- D. Cisco UCS Central

**Answer:** D

**NEW QUESTION 23**

An engineer is running a lab environment on a local PC and wants to simulate a production ESXi environment. Which type of virtualization technology can the engineer deploy on the machine without compromising the ability to use the operating system on the local machine?

- A. Type 2 hypervisor
- B. Type 1 hypervisor
- C. desktop mobility
- D. horizon view

**Answer:** B

**NEW QUESTION 27**

A company has a large number of virtualized servers running a Nexus 1000V. The data center network is running out of VLAN IDs, and in response, an engineer has been tasked to ensure that over 4000 VLANs can be allocated to each virtual host to fix the issue. What solution would satisfy this requirement?

- A. Expand VLAN capabilities on the VEM.
- B. Turn off STP on the Nexus 1000V switches.
- C. Add the Citrix NetScaler 1000V to the network.
- D. Deploy a VXLAN backbone that extends to each virtual switch.

**Answer:** A

**NEW QUESTION 28**

An IT department must deliver Cisco Nexus 5000 management access to the network team and the server team. Network team members must not be able to make any Fibre Channel configuration changes, and the server team must not be able to make Ethernet network changes. Which access model supports this configuration?

- A. Python
- B. SNMPv3
- C. ORBAC
- D. VDC

**Answer:** C

**NEW QUESTION 33**

Which purpose of using Intercloud Extender within the ICFB solution is true?

- A. Convert the VM to the cloud provider format.
- B. Secure east-west traffic flows within the public cloud.
- C. Push configuration policies into the public cloud.
- D. Provide visibility into the public cloud environment.
- E. Establish a L2VPN to the public cloud provider.

**Answer:** B

**NEW QUESTION 34**

A service provider is trying to determine how many chassis the company must order to utilize its overstock of Cisco UCS blades. There are currently 12 half-width blades and 6 full-width blades. How many chassis must the company order?

- A. 5
- B. 3
- C. 4
- D. 2

**Answer:** C

**NEW QUESTION 37**

What is a tenant in the context of cloud computing?

- A. An organization
- B. A single user account
- C. Any application that requires isolation from other tenants
- D. A department

E. A community of users

**Answer: C**

**NEW QUESTION 38**

What are the key features of UCS?

- A. 10 Gigabit unified network fabric, virtualization optimization, unified management, service profiles, flexible IO options
- B. Gigabit network , virtualization optimization, unified management, service profiles, flexible IO options
- C. 10 Gigabit unified network fabric, virtualization hardware, unified management, service profiles, performance IO options
- D. 10 Gigabit unified network fabric, virtualization optimization, unified management, service profiles, performance IO options

**Answer: A**

**NEW QUESTION 39**

Which of the following options represent NIST methods of classifying cloud implementations? (Choose all that apply.)

- A. Providers
- B. Deployment models
- C. OPEX and CAPEX
- D. Service models

**Answer: BD**

**NEW QUESTION 44**

What two protocols does a physical switch and Nexus 1000V support? (Choose two.)

- A. MPLS
- B. STP
- C. ARP
- D. CDP

**Answer: CD**

**NEW QUESTION 46**

Which of the following options represent devices that can utilize cloud resources? (Choose all that apply.)

- A. Personal computer
- B. Mobile phones
- C. Tablets
- D. Mainframe terminal
- E. Offline laptop

**Answer: ABC**

**NEW QUESTION 47**

SRIOV provides which of the following?

- A. The host PCI bus is virtualized and these virtual PCIs are directly allocated to each guest
- B. The host HBAs are virtualized and these virtual HBA are directly allocated to each guest for dedicated access
- C. The hypervisor virtualizes the CPUs and PCI bus to provide directly allocated I/O to each guest
- D. The host PCI bus is divided into pinned paths and these virtual paths are directly allocated to each guest for guranteed I/O

**Answer: A**

**NEW QUESTION 48**

Which three options are the advantages of VXLAN? (Choose three.)

- A. Increase of VLAN address space
- B. Support multi-tenancy
- C. Connectivity across disparate virtual data centers
- D. Uses Spanning Tree Protocol for loop prevention
- E. Configure Portgroup Virtual port ID
- F. Configure Portgroup Load Based Teaming

**Answer: ABC**

**NEW QUESTION 49**

Which three options are Common Cloud characteristics? (Choose three.)

- A. single tenancy
- B. elasticity
- C. ubiquitous network access
- D. metered service
- E. QoS

**Answer:** BCD

**NEW QUESTION 53**

Which description of RAID6 is true?

- A. block-level striping of data with double distributed parity
- B. drive-level striping of data with double distributed parity
- C. block-level striping of data with single distributed parity
- D. block-level mirroring of data with double distributed parity

**Answer:** A

**NEW QUESTION 55**

A client is deploying an NFS storage solution within its data center. Which option is required for other hosts to access this storage solution?

- A. Hosts must have a software initiator driver to access the shares.
- B. Hosts must approve permissions for each share in the NSF controller.
- C. Hosts must be defined in the permissions list for each share.
- D. Host shares must be directly mapped to each resource.

**Answer:** D

**NEW QUESTION 60**

An administrator is evaluating different block storage protocol choices. Which configuration area is applicable when using iSCSI?

- A. VLAN
- B. switch feature licensing
- C. software-based initiators
- D. WAN

**Answer:** B

**NEW QUESTION 63**

Which option contains server hardware identifiers, firmware, state, configuration, and connectivity characteristics?

- A. pools
- B. policies
- C. service profiles
- D. resource groups

**Answer:** C

**NEW QUESTION 67**

Company ABC hosts all their applications internally. During one day of the month, the demand for their applications far exceeds the capacity of their datacenter. Which Cloud model should Company ABC consider using?

- A. Community
- B. Private
- C. Hybrid
- D. Public

**Answer:** C

**NEW QUESTION 70**

An engineer must choose the technology to use with RedHat OpenStack and Cisco UCS. Which storage component meets the requirements of this solution?

- A. Open block
- B. VBlock
- C. VSPEX
- D. FlexPod

**Answer:** D

**NEW QUESTION 71**

Which of the following are benefits from Cisco Application Centric Infrastructure? (Choose all that apply)

- A. Distributed default gateway
- B. VM provisioning
- C. Encapsulation normalization
- D. Multi-hypervisor integration
- E. Separation of control and data planes

**Answer:** ACD

**NEW QUESTION 72**

An engineer needs to create a Cisco InterCloud Fabric Cloud using Express Route. Which public cloud offering is compatible?

- A. Express
- B. Azure
- C. GovCloud
- D. AWS VPC

**Answer: B**

**NEW QUESTION 76**

Which technology does an engineer deploy to separate a single physical switch into multiple logical contexts?

- A. GVXLAN
- B. VDC
- C. VPC
- D. VRF
- E. VLAN

**Answer: B**

**NEW QUESTION 80**

Which of the following is not a function of APIC?

- A. Control plane
- B. Policy
- C. GUI
- D. Fabric management
- E. API

**Answer: A**

**NEW QUESTION 84**

The Cisco InterCloud Fabric Director provides what functionality?

- A. It is the single point of management and consumption for hybrid Cloud solutions.
- B. It is the single point of management and consumption for public Cloud solutions.
- C. It is the single point of management and consumption for private Cloud solutions.
- D. It is a plugin of a Virtual Machine Manager to provide management and configuration for hybrid Cloud solutions.

**Answer: A**

**NEW QUESTION 87**

Which two descriptions of VXLAN are true? (Choose two.)

- A. The VXLAN Identifier space is 24 bits.
- B. VXLAN uses the Internet Protocol as the transport medium.
- C. VXLAN adds 24 bytes of overhead to each packet.
- D. VXLAN is primarily designed for small environments.

**Answer: AB**

**NEW QUESTION 90**

Which option lists Data Center network architectures?

- A. core is the top layer, spine is mid layer, leafs are the endpoints the compute nodes
- B. DHCP and static IPs Service the cluster of the virtual servers
- C. neutron plugins connect virtual machines to VLANs
- D. a data center consists of physical switches and systems using the latest VLAN protocols

**Answer: A**

**NEW QUESTION 93**

An engineer must provide a Cisco UCS management solution for 950 virtual servers spread across five data centers globally, with multiple domains and systems. Which design must be used?

- A. a Cisco UCS Manager unifying a Cisco UCS Central server per data center
- B. a Cisco UCS Central deployment per data center
- C. a Cisco UCS Central software unifying five Cisco UCS Managers
- D. a cluster of three to five Cisco UCS Managers per data center

**Answer: A**

**NEW QUESTION 98**

Which /etc/exports line will allow you to enable read-only access from the NFS client 192.168.1.100?

- A. /images 192.168.1.100 (ro,async)
- B. /images 192.168.1.100 (755,async)
- C. /images 192.168.1.1/24 (755,no\_root\_squash,async)
- D. /images 192.168.1.1/27 (ro,async)

**Answer:** A

**NEW QUESTION 101**

Two tenants of a shared storage infrastructure plan to combine resources to reduce costs. The tenants must maintain isolation for security purposes. Multiple identical Fibre Channel IDs must be used on the same physical storage network. Which option must be configured for each tenant to enable this plan?

- A. separate VSANs
- B. separate VRF instances
- C. separate vFiler instances
- D. separate zones

**Answer:** D

**NEW QUESTION 104**

Which Cloud storage technology would be accessed via the following URL? <https://cloud.example.com/v1/account/container/object>

- A. pNFS
- B. WebDAV
- C. Cinder
- D. Swift

**Answer:** D

**NEW QUESTION 106**

Which of the following represents the service models described by NIST?

- A. XaaS, PaaS, SaaS
- B. SaaS, IaaS, PaaS
- C. Private, public, hybrid
- D. On-premise, off-premise, managed
- E. EaaS, XaaS, IaaS

**Answer:** B

**NEW QUESTION 109**

Which of the following represent challenges of hybrid cloud implementations? (Choose all that apply.)

- A. Inconsistent cloud architectures
- B. Incompatible networking and security policies
- C. Lack of encryption standards
- D. Requirement for application reconfiguration when an application is migrated from one cloud to another
- E. Few service offerings

**Answer:** ABD

**NEW QUESTION 114**

What are the five specific characteristics common to the Cloud environments?

- A. on-demand usage, ubiquitous access, multi-tenancy, measured usage, resiliency
- B. on-demand usage, ubiquitous access, tiered-tenancy, measured usage, resiliency
- C. on-demand usage, autonomous access, multi-tenancy, measured usage, resiliency
- D. dynamic usage, ubiquitous access, multi-tenancy, measured usage, resiliency

**Answer:** A

**NEW QUESTION 115**

What is an invalid Cloud deployment model?

- A. distributed
- B. private
- C. community
- D. hybrid

**Answer:** A

**NEW QUESTION 117**

In which of the following features is a disruption in associated virtual machines expected?

- A. Fault tolerance
- B. Live migration

- C. High availability
- D. Resource load balancing

**Answer:** C

**NEW QUESTION 121**

A cloud engineer must implement an edge switch model that supports iSCSI and FC SAN as well as multiple VSANs and Inter-VSAN Routing. The switching fabric must meet the technical requirements at the lowest possible cost. Which series of switches must the engineer choose to meet these requirements?

- A. Cisco MDS 9100
- B. Cisco Nexus 5000
- C. Cisco Nexus 7000
- D. Cisco MDS 9200

**Answer:** A

**NEW QUESTION 126**

Which of the following are true about Infrastructure as a Service? (Choose all that apply.)

- A. Most typical consumers are IT administrators.
- B. Virtualization technologies are mandatory for the implementation of IaaS.
- C. IaaS basically offers computing hardware for its consumers.
- D. Among all service models, IaaS is the least flexible option.

**Answer:** AC

**NEW QUESTION 130**

Which of the following is also known as a Type 1 Hypervisor?

- A. bare metal hypervisor
- B. hosted hypervisor
- C. virtualization host
- D. Cisco Intercloud Exchange

**Answer:** A

**NEW QUESTION 134**

Which of the following represent features from UCS Central? (Choose all that apply.)

- A. Consolidates inventory and faults from multiple UCS domains
- B. Provides KVM access to C-Series that are not managed by UCS Manager
- C. Globally controls identifier pools to avoid conflicts
- D. Replaces UCS Manager
- E. Does not allow regional policies
- F. Can schedule UCS backup and firmware upgrades

**Answer:** ACF

**NEW QUESTION 135**

Which option is used to manage Multi-Domain Cisco UCS?

- A. Cisco UCS Manager
- B. Cisco UCS Central
- C. Cisco UCS B-Series
- D. Cisco UCS C-Series

**Answer:** B

**NEW QUESTION 137**

Which of the following is a feature that improves the performance of software applications that run on the Cisco UCS servers in a data center by bypassing the kernel when sending and receiving networking packets?

- A. vPath
- B. VM-FEX
- C. usNIC
- D. VMware PassThrough

**Answer:** C

**NEW QUESTION 138**

A company within a highly regulated industry plans to share threat information with its competitors in an effort to better secure their environments. The company intends to pay for its utilization without a large capital expenditure. All compliance aspects are well understood and architecture within any deployment will pass audits. Which cloud deployment method is most appropriate for the platform?

- A. community

- B. public
- C. private
- D. hybrid

**Answer:** A

**NEW QUESTION 141**

Which of the following represent key aspects of a service-level agreement between a data center service provider and a consumer? (Choose all that apply.)

- A. Performance
- B. Mean time to recover
- C. Contract changes
- D. Data handling
- E. Uptime

**Answer:** ABDE

**NEW QUESTION 145**

Which option is one essential characteristic of Cloud computing?

- A. It must use virtualization.
- B. It must provide load balancing services.
- C. It must provide on-demand self service.
- D. It must run on open source software.

**Answer:** C

**NEW QUESTION 146**

Which characteristic is an inoperative attribute of a private Cloud deployment?

- A. self service and on demand
- B. shared by many companies
- C. highly scalable
- D. metered for reporting or billing purposes

**Answer:** B

**NEW QUESTION 151**

Which of the following is not a valid action for an OpenFlow network device?

- A. Send to SDN controller
- B. Send to egress interface
- C. Send to all ports except ingress
- D. Check TCP flags
- E. Send to input port

**Answer:** D

**NEW QUESTION 152**

An architect for a company's private cloud utilizes software-defined networking with the expectation of service microsegmentation. The architect intends to use MAC addresses printed on the network cards for ingress/egress filtering of each VM. Which aspect of virtualization initially impedes the architect's success?

- A. The MAC addresses are indistinguishable; the hypervisor stacks all the addresses on a single network interface.
- B. The hypervisor translates only TCP/IP addresses from the virtual machines to MAC addresses.
- C. The MAC addresses are not used for ingress/egress filtering; the architect must use TCP/IP.
- D. The virtual machines are not allowed to access the hardware-based MAC address directly.

**Answer:** B

**NEW QUESTION 153**

Which Cisco product can provide an iSCSI target for an iSCSI initiator?

- A. Cisco MDS 9710
- B. Cisco Nexus 7010
- C. Cisco UCS Invicta
- D. Cisco Nexus 9510

**Answer:** C

**NEW QUESTION 158**

Which of the following is not a virtual machine file?

- A. Virtual disk
- B. NVRAM
- C. Swap memory

D. NFS  
E. Log

**Answer: D**

**NEW QUESTION 159**

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