210-451 48 Questions Understanding Cisco Cloud Fundamentals

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Question 1
Which platform is ideally used to orchestrate a FlexPod from a single management platform?
A. Cisco UCS Manager
B. Cisco UCS Director
C. Cisco Prime Cloud Automation Manager
D. Cisco Application Centric Infrastructure Manager

Correct Answer: B
Explanation/Reference:

Question 2
Which integrated infrastructure rely on OpenStack technology?
A. FlexPod
B. Vblock
C. VSPEX
D. OpenBlocks

Correct Answer: D
Explanation/Reference:
Explanation:

Question 3
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

Correct Answer: D
Explanation/Reference:
Explanation:
**Question 4**
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

Correct Answer: C
Explanation/Reference:

**Question 5**
Refer to the command line display below:

```
vsan database
vsan 1000 name FCoE
vlan 1000
fcoe vlan 1000
int e1/1
switchport mode trunk
switchport trunk allowed vlan 1000
no shut
int vfc10
bind interface e1/1
switchport trunk allowed vsan 1000
no shut
```

On which line does the error occur that prevents FCoE from operating correctly in a Cisco Nexus switch?

A. fcoe vlan 1000  
B. switchport trunk allowed vsan 1000  
C. int vfc10  
D. bind interface e1/1

Correct Answer: A
Explanation/Reference:

**Question 6**
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)

Correct Answer: A
Explanation/Reference:
**Question 7**
Which two options are characteristics of NAS?
Which two options are characteristics of NAS? (Choose two.)
A. NAS provides block-based storage only.
B. NAS provides storage and filesystems.
C. NAS requires no authentication.
D. SMB is a protocol that can be used for NAS.

Correct Answer: BD
Explanation/Reference:
Explanation:

**Question 8**
Which option describes what the use of no_root_squash does in an NFS environment?
Which option describes what the use of no_root_squash does in an NFS environment?
A. It causes the NFS share to be mounted by a non-root user and is required for hypervisors that utilize RBAC for users.
B. It allows a NFS share to be mounted and written to as the root user by the hypervisor.
C. It allows a NFS share to be mounted by root, but all subsequent writes are as a non-root user.
D. It allows a NFS share to be mounted by a non-root user and all subsequent writes are as a non-root user.

Correct Answer: B
Explanation/Reference:
Explanation:

**Question 9**
Which two options are valid fibre channel zone member types?
In an Openstack Cloud deployment which has a fibre channel SAN providing the block storage, which two options are valid fibre channel zone member types? (Choose two.)
A. FCID
B. DomainID
C. WWPN
D. OpenStack Volume ID

Correct Answer: AC
Explanation/Reference:
Explanation:

**Question 10**
What are two characteristics of a LUN?
What are two characteristics of a LUN? (Choose two.)
A. A LUN must be fully comprised of one physical disk
B. A LUN handles file system creation
C. A LUN can be comprised of multiple physical disks
D. A LUN is a unique identifier

Correct Answer: CD
Question 11
Which type of zoning is represented?
Which type of zoning is represented? zone name zone1 vsan 10 member pwnn
20:00:00:55:a5:00:00:04 member pwnn
50:00:d3:10:00:18:e1:05 member pwnn 50:00:d3:10:00:18:e1:06
A. Single Initiator Multi Target
B. Multi Initiator Single Target
C. Single Target Single Initiator
D. Multi Initiator Multi Target
Correct Answer: A

Question 12
Which of the following two storage technologies would require that its’ block device be attached
to an instance before you can perform any filesystem commands?
Which of the following two storage technologies would require that its’ block device be attached
to an instance before you can perform any filesystem commands? (Choose two.)
A. SCSI LUN
B. Cinder Volume
C. NFS Filesystem Meta-Volume
D. Direct Object Block Device
Correct Answer: AB

Question 13
Which option is an open and extensible southbound protocol that supplies policy directly to data
center networks?
Which option is an open and extensible southbound protocol that supplies policy directly to data
center networks?
A. OpFlex
B. vPath
C. VM-FEX
D. OpenDaylight
Correct Answer: A

Question 14
Which option lists Data Center network architectures?
Which option lists Data Center network architectures?
A. core is the top layer, spine is mid layer, leaves 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

Correct Answer: A
Explanation/Reference:
Explanation:

Question 15
Which technology focuses on Layer 2 distributed data centers?
A. FabricPath
B. Adapter FEX
C. LISP
D. OTV

Correct Answer: D
Explanation/Reference:
Explanation:

Question 16
Which of the following best describes the order of operations of FCoE Initialization Protocol?
A. VLAN Discovery, FCF Discovery, FLOG I/F Discovery, FC Command
B. VLAN Discovery, FCF Discovery, PLOGI Discovery, FLOG I/F Discovery
C. FCF Discovery, PLOGI Discovery, FLOG I/F Discovery
D. VLAN Discovery, FCF Discovery, FLOG I/F Discovery

Correct Answer: D
Explanation/Reference:
Explanation:

Question 17
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

Correct Answer: ABC
Explanation/Reference:
Explanation:

Question 18
What best describes the live migration of a virtual machine from one host to another?
A. It requires shutting down the virtual machine before migration
B. It requires that the I/O and CPU calls be quiesced to ensure that as the CPU and memory state of a VM is able to be transferred between hosts without interruption of services
C. It requires that the filesystem of the virtual machine be migrated to the new host before the state can be
D. The virtual machine will be unavailable for a few seconds while it is suspended, transferred and then reinstated

Correct Answer: B
Explanation/Reference:
Explanation:

Question 19
SRIOV provides which of the following?
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 guaranteed I/O

Correct Answer: A
Explanation/Reference:
Explanation:

Question 20
What best describes server virtualization?
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

Correct Answer: A
Explanation/Reference:
Explanation:

Question 21
Which two technologies support running Linux and Windows virtual machines?
Which two technologies support running Linux and Windows virtual machines? (Choose two.)
A. KVM
B. LXD
C. Docker
D. Microsoft Hyper-V
Correct Answer: AD
Explanation/Reference:
Explanation:

**Question 22**
Which of these are hypervisors typically utilized in a modern data center?
A. VMware, HyperV, Linux
B. ESXi, HyperV, Linux
C. ESXi, HyperV, KVM
D. VMware, HyperV, KVM

Correct Answer: C
Explanation/Reference:
Explanation:

**Question 23**
Where is the Hypervisor installed?
A. Host operating system
B. Guest operating system
C. Control node
D. Computer node

Correct Answer: D
Explanation/Reference:
Explanation:

**Question 24**
What does this mean?
VMware’s ESXi Hypervisor is a Type-1 hypervisor. What does this mean?
A. It should be placed first in your data center.
B. It runs a conventional operating system and abstracts the guest operating system from its host system.
C. It should only be run in class 1 data centers with high availability.
D. It runs directly on the host hardware to control and manage the guest operating systems.

Correct Answer: D
Explanation/Reference:
Explanation:

**Question 25**
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 operations. Read access to the rest of the system.
B. Read and write access to logical and physical server related operations. Read and write access to the rest of the system.
C. Read and write access to logical and physical server related operations. Read access to the rest of the system.
D. Read and write access to physical server related operations. Read and write access to the rest of the system.

Correct Answer: A
Explanation/Reference:

Question 26
Which option is the correct steps to regenerate a UCS B-Series SSL certificate?
A. Open an SSH session to the CIMC IP
   # scope security
   # scope keyring default
   # set regenerate yes
   # commit-buffer
B. Open an SSH session to the CIMC IP
   # scope certificate
   # set regenerate yes
   # commit-buffer
C. Open an SSH session to the CIMC IP
   # scope security
   # scope certificate
   # set regenerate yes
   # commit-buffer
D. Using the UCSM GUI
   Navigate to the Admin tab
   Expand ALL > Key Management
   Right-click Key Management and choose regenerate certificate Click OK

Correct Answer: A
Explanation/Reference:

Question 27
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

Correct Answer: A
Explanation/Reference:
Question 28
Which option contains server hardware identifiers, firmware, state, configuration, and connectivity characteristics?
Which option contains server hardware identifiers, firmware, state, configuration, and connectivity characteristics?
A. pools
B. policies
C. service profiles
D. resource groups

Correct Answer: C
Explanation/Reference:

Question 29
Which administrative task is most disruptive to a Cisco UCS B-Series cluster?
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

Correct Answer: B
Explanation/Reference:

Question 30
Which option is used to manage Multi-Domain Cisco UCS?
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

Correct Answer: B
Explanation/Reference:

Question 31
Which API structure does Cisco UCS Manager support?
Which API structure does Cisco UCS Manager support?
A. JSON
B. XML
C. RUBY
D. PERL

Correct Answer: B
Question 32
The Cisco InterCloud Fabric Director provides what functionality?
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.
Correct Answer: A

Question 33
Which three are the components of Cisco InterCloud solution?
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
Correct Answer: ABC

Question 34
Which two options are benefits of the Cisco InterCloud Solution?
Which two options are benefits of the Cisco InterCloud Solution? (Choose two.)
A. enforces standardization on a single hypervisor product
B. provides self service for hybrid resources
C. management of heterogeneous SAN solutions
D. secure connectivity between public and private Clouds
Correct Answer: BD

Question 35
Which description of Cisco vPath is true?
Which description of Cisco vPath is true?
A. a protocol that provides end-to-end path assurance for Cloud-based systems
B. an embedded intelligence in Cisco VEM that provides abstracted control and forward plane functionality
C. a service that provides forwarding plane abstraction for inline redirection of traffic for
vServices
D. a vService that allows for security policy enforcement through transparent bridging

Correct Answer: C
Explanation/Reference:
Explanation:

Question 36
Which three options are Common Cloud characteristics?
A. single tenancy
B. elasticity
C. ubiquitous network access
D. metered service
E. QoS

Correct Answer: BCD
Explanation/Reference:
Explanation:

Question 37
What is an invalid Cloud deployment model?
A. distributed
B. private
C. community
D. hybrid

Correct Answer: A
Explanation/Reference:
Explanation:

Question 38
Which option lists the Cloud deployment models?
A. public, community, private, hybrid

Correct Answer: A
Explanation/Reference:
Explanation:

Question 39
Which Cloud model should Company ABC consider using?
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  

Correct Answer: C  
Explanation/Reference:  
Explanation:  

**Question 40**  
Which three options are considered Cloud deployment models?  
Which three options are considered Cloud deployment models? (Choose three.)  
A. Public Cloud  
B. Hybrid Cloud  
C. Open Cloud  
D. Private Cloud  
E. Stack Cloud  
F. Distributed Cloud  

Correct Answer: ABD  
Explanation/Reference:  
Explanation:  

**Question 41**  
Which best describes a Cloud deployment model that relies on interoperability between Cloud providers?  
Which best describes a Cloud deployment model that relies on interoperability between Cloud providers?  
A. Hybrid Cloud  
B. Multi-Cloud  
C. InterCloud  
D. Community Cloud  

Correct Answer: C  
Explanation/Reference:  
Explanation:  

**Question 42**  
Which statement defines Cloud Service Models?  
Which statement defines Cloud Service Models?  
A. infrastructure as a service, software as a service, platform as a service  
B. internet as a service, software as a service, platform as a service  
C. infrastructure as a service, big data as a service, platform as a service  
D. infrastructure as a service, software as a service, grid as a service  

Correct Answer: A  
Explanation/Reference:  
Explanation:
Question 43
Which Cloud service model is appropriate for a physical data center move to the Cloud?
A. Infrastructure as a Service
B. Platform as a Service
C. Compute as a Service
D. Software as a Service
Correct Answer: A
Explanation/Reference:

Question 44
IaaS is an acronym for what type of Cloud?
A. Instances as a Service
B. Infrastructure as a Service
C. Internet as a Service
D. Images as a Service
Correct Answer: B
Explanation/Reference:

Question 45
Which best describes a SaaS Cloud model?
A. infrastructure that presents the user with an operating system allowing programming language execution environment for testing database and web servers
B. infrastructure that virtualizes server functions on a hypervisor
C. infrastructure that provides elastic storage and computing resources
D. a platform that provides access to application software or database resources
Correct Answer: D
Explanation/Reference:

Question 46
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
Correct Answer: A
Explanation/Reference:
**Question 47**
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.

Correct Answer: C

**Explanation/Reference:**

**Question 48**
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

Correct Answer: B

**Explanation/Reference:**