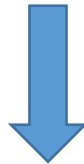


Cisco CCNA Certification 210-451 Exam



- Vendor: Cisco
- Exam Code: 210-451
- Exam Name: Understanding Cisco Cloud Fundamentals (CLDFND)

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QUESTION 1

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

Answer: ABD

QUESTION 2

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

QUESTION 3

Which API structure does Cisco UCS Manager support?

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

Answer: B

QUESTION 4

Which API structure does Cisco UCS Manager support?

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

Answer: B

QUESTION 5

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

QUESTION 6

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

QUESTION 7

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

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

Answer: C

QUESTION 8

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

QUESTION 9

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

Answer: A

QUESTION 10

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.

Answer: A

QUESTION 11

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.

Answer: D

QUESTION 12

Where is the Hypervisor installed?

- A. Host operating system
- B. Guest operating system
- C. Control node
- D. Computer node

Answer: D

QUESTION 13

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

Answer: C

QUESTION 14

Which two technologies support running Linux and Windows virtual machines? (Choose two.)

- A. KVM
- B. LXD
- C. Docker
- D. Microsoft Hyper-V

Answer: AD

QUESTION 15

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

QUESTION 16

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

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

Answer: CD

QUESTION 17

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

QUESTION 18

Which protocol does Cisco Nexus 1000V use to provide flow redirection for vService interaction?

- A. OpFlex
- B. vPath
- C. FlexPath
- D. VLAN bridging

Answer: B

QUESTION 19

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

QUESTION 20

Which type of zoning is represented?

```
zone name zone1 vsan 10
member pwwn 20:00:00:55:a5:00:00:04
member pwwn 50:00:d3:10:00:18:e1:05
member pwwn 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

Answer: A

QUESTION 21

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

Answer: CD

QUESTION 22

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

Answer: AC

QUESTION 23

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.

Answer: B

QUESTION 24

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.

Answer: BD

QUESTION 25

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

QUESTION 26

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

Answer: A

QUESTION 27

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

QUESTION 28

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

QUESTION 29

Which technology focuses on Layer 2 distributed data centers?

- A. FabricPath
- B. Adapter FEX
- C. LISP
- D. OTV

Answer: D

QUESTION 30

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

Answer: B

QUESTION 31

Which description of the elasticity of a Cloud-based infrastructure is true?

- A. provides dynamic on-demand provisioning of services in near real time
- B. enables sharing of resources and costs across a large pool of users
- C. multisite architecture to reduce impact from outages in any one site
- D. provides a security posture that is manageable from a single point of control

Answer: A

QUESTION 32

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

QUESTION 33

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

QUESTION 34

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

QUESTION 35

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

Answer: D

QUESTION 36

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

Answer: B

QUESTION 37

Which API structure does Cisco UCS Manager support?

- A. JSON

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

Answer: B

QUESTION 38

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

Answer: A

QUESTION 39

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

Answer: C

QUESTION 40

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

Answer: A

QUESTION 41

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

QUESTION 42

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

Answer: A

QUESTION 43

Cisco APICs utilize sharding to provide what function for an ACI fabric?

- A. It provides scalability and reliability to the data sets generated and processed by the Distributed Policy Repository, the endpoint registry, the Observer, and the Topology Manager
- B. It provides replication of application network policies across the APICs in the cluster
- C. It provides a method for determining which APIC will act as the master in a fabric during the election process
- D. It provides horizontal scaling ability for policy management on APICs

Answer: A

QUESTION 44

Which option lists the Cloud deployment models?

- A. public, community, private, hybrid
- B. cluster, community, private, hybrid
- C. public, performance, private, hybrid
- D. public, community, secure, hybrid

Answer: A

QUESTION 45

What is an invalid Cloud deployment model?

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

Answer: A

QUESTION 46

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

QUESTION 47

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

Answer: C

QUESTION 48

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

Answer: BD

QUESTION 49

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

QUESTION 50

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

Answer: B

QUESTION 51

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

QUESTION 52

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

Answer: D

QUESTION 53

Which technology focuses on Layer 2 distributed data centers?

- A. FabricPath
- B. Adapter FEX
- C. LISP
- D. OTV

Answer: D

QUESTION 54

What type of node runs Virtual Machines in a virtualized infrastructure?

- A. Storage Node
- B. Management Node
- C. Compute Node
- D. Scheduling Node

Answer: C

QUESTION 55

Which of the following statements best describes Atomic Inheritance?

- A. It maintains a consistent configuration among the interfaces in a port profile and the entire port profile configuration is applied to its member interfaces
- B. To maintain a consistent configuration among the sub-interfaces in a port profile
- C. It tracks the packets among the interfaces in a port profile from the start of each flow until termination
- D. To maintain a system VLAN connection to ensure communication between the VSM and VEM

Answer: A

QUESTION 56

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. VM-FEX
- B. usNIC
- C. VMware PassThrough

Answer: C

QUESTION 57

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

QUESTION 58

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

QUESTION 59

Which of the following protocols are considered to be "file based"?

- A. NFS, FCoE, iSCSI, CIFS
- B. iSCSI, NFS, CIFS
- C. NFS or CIFS
- D. FCoE or NFS

Answer: C

QUESTION 60

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

Answer: AB

QUESTION 61

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

Answer: A

QUESTION 62

Which integrated infrastructure rely on OpenStack technology?

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

Answer: D

QUESTION 63

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

Answer: C

QUESTION 64

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

QUESTION 65

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

QUESTION 66

Which of the following are correct about cloud regions and availability zones? (Choose all that apply.)

- A. Regions represent data center installations from a cloud provider that can be used as options for the consumer resource deployment.
- B. Availability zones represent data center installations from a cloud provider that can be used as options for the consumer resource deployment.
- C. Regions are independent locations within a single data center facility.

D. Availability zones are independent locations within a single data center facility.

Answer: AD

QUESTION 67

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

QUESTION 68

Which of the following statements is false?

- A. VM high availability enables the restarting of virtual machines that were running on hosts that failed.
- B. Live migration is a disaster recovery feature that allows the migration of VMs after a physical server suffers a major hardware failure.
- C. Resource load balancing allows automatic host selection when you are creating a virtual machine.
- D. VM fault tolerance reserves double the resources a virtual machine requires.

Answer: B

QUESTION 69

Which of the following options contains only regulatory compliance standards?

- A. PCI DSS, FISMA, NIST
- B. HIPAA, PCI DSS, SOX
- C. IEEE, IETF, ANSI
- D. ANSI, FedRAMP, Basel
- E. SOX, Intercloud, HIPAA

Answer: B

QUESTION 70

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

QUESTION 71

Which of the following is not a virtual machine file?

- A. Virtual disk

- B. NVRAM
- C. Swap memory
- D. NFS
- E. Log

Answer: D

QUESTION 72

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