

Cisco

Exam Questions 210-451

Understanding Cisco Cloud Fundamentals



NEW QUESTION 1

A company is looking for a WAN optimization product to add to its existing Cisco infrastructure. What product would meet this requirement?

- A. Citrix NetScaler 1000v
- B. UCS Invicta
- C. CSR 1000V
- D. vWAAS

Answer: B

NEW QUESTION 2

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

NEW QUESTION 3

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 4

Which of the following contains constructs that are not part of the ACI policy model?

- A. Context, tenant, subnet
- B. Broadcast domain, context, connectivity profile
- C. Contract, filter, subject
- D. Service chain, contract, EPG

Answer: B

NEW QUESTION 5

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 6

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

NEW QUESTION 7

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

NEW QUESTION 8

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 9

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

NEW QUESTION 10

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

NEW QUESTION 10

Which statement about Fibre Channel and iSCSI storage protocols is true?

- A. Fibre Channel can go up to 40 Gbps, but iSCSI is limited to 1 Gbps.
- B. Fibre Channel and iSCSI are both block-based protocols and are used to access block devices.
- C. Fibre Channel and iSCSI both use IP for communication.
- D. Both protocols are the same.

Answer: A

NEW QUESTION 14

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 18

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 21

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 24

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

NEW QUESTION 27

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

NEW QUESTION 31

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

NEW QUESTION 33

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

NEW QUESTION 37

Where is the Hypervisor installed?

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

Answer: D

NEW QUESTION 41

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 44

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 46

A client is running several Cisco Nexus 9000 switches in fabric mode. During operation, the Cisco APIC cluster loses connectivity to the rest of the Cisco ACI

fabric. What is the operational issue until the Cisco APIC cluster regains connectivity?

- A. The spines and leaves operate normally, and changes must be made via CLI on the master spine node.
- B. The spines and leaves pass Layer 2 traffic, and Layer 3 traffic is directed to the master spine node.
- C. The spines and leaves do not pass any traffic until the Cisco APIC cluster reconnects.
- D. The spines and leaves operate normally, and no new updates can be applied until the Cisco APIC cluster reconnects.

Answer: B

NEW QUESTION 51

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 56

An engineer must develop a new solution to streamline internal operations for the company. The goal is to provide faster and automated delivery of IT services to end users at any time. Which cloud characteristic fulfills the goal?

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

Answer: A

NEW QUESTION 58

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 60

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 62

An administrator is planning for a new Cisco Nexus 1000V deployment in a VMware vSphere infrastructure. Which requirement must the administrator satisfy before beginning the deployment?

- A. The vSphere Standard licenses are assigned to the hosts where the Cisco Nexus 1000V is deployed.
- B. The VLANs 1099 to 4047 and 4099 are not in use in the target network infrastructure.
- C. The Distributed Resource Scheduler is disabled in the vSphere cluster.
- D. The Cisco Nexus 1000v version is compatible with the installed vSphere version.
- E. The vSphere hosts are directly connected to Cisco Nexus or Cisco Catalyst network switches.

Answer: D

NEW QUESTION 64

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 66

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

NEW QUESTION 67

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

NEW QUESTION 72

When designing a leaf/spine ACI architecture, what ensures that any application nodes are at most only two hops from each other or from IP-based storage?

- A. ACI support of multiple encapsulation or tunneling protocols
- B. connectivity of virtual and physical endpoints is built into the Layer 3 boundary
- C. leaf nodes at the edge of the fabric and spine nodes at the core
- D. configuration of border leaf nodes

Answer: B

NEW QUESTION 74

Cisco UCS and VMware vCenter must be connected for management integration and network communication with the host. To accomplish this what must be established

- A. The SSL key must be registered with the external visualization manager
- B. The VMwarePassThrough Ethernet Adapter Policy must be set on each host so that it can communicate
- C. The extension key must be registered with the external visualization manager
- D. ESXi hosts must first be added to the DVS

Answer: C

NEW QUESTION 75

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

NEW QUESTION 80

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 84

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 88

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 92

What is a benefit of using Cisco MDS VSAN within a SAN infrastructure?

- A. support for up to 255 switches within each VSAN
- B. ability to implement VSAN across multiple switch vendors
- C. isolation of logical fabrics within the same physical topology
- D. automatic failover between VSAN instances

Answer: B

NEW QUESTION 95

A small start-up wants to maximize its IT budget and intends to use the cloud for its new service. The executive staff expect a one-year development period followed by a rapid growth curve. Which cloud deployment method is most appropriate for the architectural design?

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

Answer: A

NEW QUESTION 96

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

NEW QUESTION 100

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 105

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 107

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 110

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

NEW QUESTION 113

Which of the following contains policies that are not part of UCS?

- A. BIOS, boot order, firmware package
- B. IPMI, PXE, Serial over LAN
- C. Maintenance, scrub, adapter
- D. vNIC/vHBA placement, local disk, power control

Answer: B

NEW QUESTION 116

Which type of hypervisor shares its license with hosted VM. when the hosted VM is Windows server 2012?

- A. VMware
- B. Hyper-V
- C. XEN
- D. KVM

Answer: B

NEW QUESTION 121

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

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

Answer: AD

NEW QUESTION 122

Which of the following is the main function of SAL in OpenDaylight?

- A. Provide abstraction for southbound protocols
- B. Directly configure OpenFlow compatible devices
- C. Handle REST API calls
- D. Clustering
- E. GUI

Answer: A

NEW QUESTION 127

Which of the following is not an ACI component?

- A. Nexus 9000
- B. APIC
- C. AVS
- D. Nexus 1000V
- E. Partner ecosystem

Answer: D

NEW QUESTION 128

An IT admin has just deployed Cisco UCS B-Series servers to a third data center. Which software package reduces the management burden by providing a single pane of glass for each Cisco UCS instance?

- A. UCS Director
- B. UCS Manager
- C. UCS Performance Manager
- D. UCS Central

Answer: C

NEW QUESTION 131

A company wants to develop software for a mobile, cloud-based application. Due to funding restrictions, there are no resources to support any of the underlying infrastructure such as network, servers, operating systems or storage. Which service model must be used?

- A. Software as a Service

- B. Infrastructure as a Service
- C. On-Demand Self Service
- D. Platform as a Service

Answer: B

NEW QUESTION 132

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 133

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 135

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 139

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 140

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 141

A data center administrator of a large enterprise organization must determine if Cisco UCS Central would be a good option for day-to-day operations. Which of the following is a feature of Cisco UCS Central?

- A. automatic high availability across the Cisco UCS stack
- B. complement to Cisco UCS Director
- C. centralized view of performance data
- D. centralized view of inventory, faults, and logs

Answer: B

NEW QUESTION 146

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 151

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 154

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

NEW QUESTION 158

What is an invalid Cloud deployment model?

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

Answer: A

NEW QUESTION 163

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 165

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 168

An engineer has decided to use a distributed virtual switch as opposed to a standard virtual switch in a virtual environment. How does this choice ease the burden of management?

- A. The DVS pushes networking changes to all hosts that are part of the DVS.
- B. The DVS software package installation is an automated process managed by VUM.
- C. The DVS implements dynamic routing protocols at the virtual layer.
- D. The DVS detects upstream VLANs and automatically pushes them to port groups.

Answer: A

NEW QUESTION 173

A systems administrator finds physical hardware oversubscribed, yet all applications are deployed according to their minimum memory requirements. Which two actions separately can be adjusted to fix this oversubscription? (Choose two.)

- A. Increase the physical memory pool.
- B. Increase local flash storage on the host.
- C. Decrease the memory allocated per VM.

- D. Increase the number of virtual network cards on each VM.
- E. Decrease the number of VMs on the hypervisor.

Answer: BE

NEW QUESTION 174

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

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

Answer: C

NEW QUESTION 177

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 tabExpand ALL > Key ManagementRight-click Key Management and choose regenerate certificate Click OK

Answer: A

NEW QUESTION 180

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 185

A network engineer is deploying a new SDN network. In troubleshooting the deployment, the engineer discovers that changes are being delivered to the control plane devices but not beyond. Where in the framework is the disconnect?

- A. NetFlow communication
- B. SNMP communication
- C. API communication to control plane
- D. API communication to data plane

Answer: B

NEW QUESTION 190

Cisco Unified Fabric refers to the convergence of which two protocols? (Choose two.)

- A. Cisco FabricPath
- B. Fibre Channel
- C. Ethernet
- D. iSCSI
- E. TCP/IP

Answer: A

NEW QUESTION 193

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 197

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