



# 300-160<sup>Q&As</sup>

Designing Cisco Data Center Infrastructure

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### QUESTION 1

Which command sequence represents a correct process to establish OSPF peer authentication credentials?

- A. N7010-C2(config)# key chain OSPF N7010-C2(config-keychain)# key 0 N7010-C2(config-keychain-key)# key-string
- B. N7010-C2(config)# key-chain 0 N7010-C2(config-key-chain)# key-name OSPF N7010-C2(config-key-chain-key)# key-string
- C. N7010-C2(config)# key ring OSPF N7010-C2(config-keyring)# key 0 N7010-C2(config-keyring-key)# key-string
- D. N7010-C2(config)# key-ring 0 N7010-C2(config-key-ring)# key-name OSPF N7010-C2(config-key-ring-key)# key-string

Correct Answer: A

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### QUESTION 2

You have a vPC domain that contains a Cisco Nexus 5000 Series pair. Which feature must you enable to make the Cisco Nexus pair operate as a single STP root?

- A. auto-recovery
- B. priority
- C. peer-switch
- D. peer-gateway

Correct Answer: C

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### QUESTION 3

Which two options are benefits of credit-based flow control in a Fibre Channel network? (Choose two.)

- A. sends credit to all of the switches in a SAN zone
- B. increases the credit limit when the buffer overruns
- C. maximizes performance under high loads
- D. prevents the loss of frames due to buffer overruns
- E. provides automatic buffer scaling under high loads

Correct Answer: DE

Explanation/Reference:

Reference: [http://icon.clnchina.com.cn/images/UCS\\_data\\_path\\_troubleshooting.pdf](http://icon.clnchina.com.cn/images/UCS_data_path_troubleshooting.pdf)(page 12)

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#### QUESTION 4

Which Cisco UCS Fabric Extenders provide up to 160 Gbps of bandwidth to the Cisco UCS chassis?

- A. UCS 2208XP
- B. UCS 2204XP
- C. UCS 2104XP
- D. UCS 2108XP

Correct Answer: A

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#### QUESTION 5

Which four statements about Cisco Overlay Transport Virtualization are true? (Choose four.)

- A. OTV is a "MAC in IP" technique for supporting Layer 2 VLANs over any transport.
- B. OTV is not a public standard, even though the technology is based on standardized protocols.
- C. OTV is public standard because the technology is based on standardized protocols.
- D. OTV is supported on all M-Series modules of Cisco Nexus 7000.
- E. OTV is core and site transparent. Changes to the Layer 2 design of the sites are needed.
- F. OTV enables the network administrator to statically map MAC addresses to IP addresses.
- G. OTV cannot support multiple concurrent overlays.
- H. OTV supports Catalyst 6500.

Correct Answer: ABDF

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#### QUESTION 6

Which feature protects network devices against abnormal or unwanted traffic such as rogue devices performing various DoS attacks against them?

- A. control-plane policing
- B. strict unicast RPF
- C. IP Source Guard
- D. intrusion prevention deployed at the edge
- E. intrusion detection deployed at the services layer



Correct Answer: A

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#### QUESTION 7

When designing a data center environment with ECMP and IP routing between the data center network segments, which design would be the most suitable?

- A. Layer 3 data center core
- B. Layer 3 data center core with Layer 2 extension
- C. Layer 2 data center core
- D. Layer 2 data center core with Layer 3 extension

Correct Answer: A

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#### QUESTION 8

What is the maximum number of vCPU and memory supported by a Cisco UCS B200 M3 blade server? (Choose two.)

- A. 16 vCPU
- B. 24 vCPU
- C. 384 GB memory
- D. 768 GB memory

Correct Answer: BD

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#### QUESTION 9



Instructions

- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are **two** multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Scenario

Based on your knowledge of Cisco port channeling technologies, use the topology to answer questions about the features of Cisco VSS and vPC.

Exhibit 1

The diagram illustrates two network topologies. On the left, labeled 'VSS', two Nexus 7000 devices are connected to each other and to a single downstream switch. On the right, labeled 'vPC', two Nexus 7000 devices are connected to each other and to two downstream switches in a mesh topology. A QR code is located in the bottom right corner of the exhibit area.

Which three items represent features of Cisco Virtual Switching System? (Choose three)

- A. Single control plane
- B. Dual control planes
- C. VSS appears as one switch to downstream switches
- D. VSS appears as two switches to downstream switch
- E. Etherchannel protocols include Static, LACP
- F. channel protocols include Static, PAgP, PAgP+, LACP

Correct Answer: ACF

#### QUESTION 10

Which document is the least relevant as an output deliverable from the design phase?

- A. high-level design
- B. site requirements specification



C. configurations

D. migration plan

Correct Answer: C

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#### QUESTION 11

Which three options are differences between vPC and VSS from an operational point of view? (Choose three.)

- A. With vPC, the two switches operate as a single device.
- B. With vPC, the two switches operate as individual devices.
- C. With VSS, the two switches operate as individual devices.
- D. With VSS, the two switches operate as a single device.
- E. VSS eliminates the need to implement a FHRP.
- F. vPC eliminates the need to implement a FHRP.
- G. With vPC, the peer keep-alive link also carries user traffic.
- H. With VSS, heartbeat links also carries user traffic.

Correct Answer: BDE

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#### QUESTION 12

Which two Nexus 7000 licenses are required to manage FabricPath from Cisco Data Center Network Manager (DCNM)? (Choose two.)

- A. Nexus 7000 Enhanced Layer 2 License
- B. Nexus 7000 Transport Services License
- C. Cisco DCNM for SAN Advanced Edition for Nexus 7000
- D. Nexus 7000 LAN Enterprise License
- E. Cisco DCNM for Nexus 7000
- F. Nexus 7000 Scalable Feature License

Correct Answer: AE

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#### QUESTION 13

What are common switching protocols that are used in the data center? (Choose two.)



- A. Token Ring
- B. FDDI
- C. Ethernet
- D. MPLS
- E. Frame Relay
- F. APPN/APPI

Correct Answer: CD

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#### QUESTION 14

You use Dynamic ARP Inspection on data center switches Which two options can the switches use to perform ARP validation? (Choose two )

- A. syslog
- B. a 802.1x user authentication database
- C. access control lists configured on each switch port
- D. astatic ARP access list
- E. a DHCP binding database

Correct Answer: CE

Explanation/Reference:

Reference:[http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960/software/release/12-2\\_55\\_se/configuration/guide/scg\\_2960/swdynarp.html#pgfId-1039854](http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960/software/release/12-2_55_se/configuration/guide/scg_2960/swdynarp.html#pgfId-1039854)

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#### QUESTION 15

Which two items represent data center virtualization technologies? (Choose two.)

- A. ECMP
- B. GLBP
- C. LUN
- D. VSAN
- E. L2 firewall

Correct Answer: CD

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#### QUESTION 16

Which three factors affect the virtual machine consolidation ratio when designing a Cisco UCS solution for a virtual desktop infrastructure? (Choose three.)

- A. the amount of memory on the blade servers
- B. the CPU speed of the blade servers
- C. the hypervisor version and the virtual desktop infrastructure software
- D. the number of applications on the desktop of each user
- E. the remote access protocol type
- F. the percentage of user desktops that need remote access

Correct Answer: ABC

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#### QUESTION 17

How is oversubscription between disk arrays and hosts calculated when you use only line-rate capable line cards?

- A. by dividing the total bandwidth of the disk array ports by the total bandwidth of the Inter-Switch Links
- B. dividing the total bandwidth of the host ports by the total bandwidth of the disk array ports
- C. by dividing the total bandwidth of the host ports by the total bandwidth of the Inter-Switch Links
- D. by dividing the total bandwidth of the disk array ports by the total bandwidth of the host ports

Correct Answer: B

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#### QUESTION 18

Which technologies will be found in a data center that is designed for Cisco equipment?

- A. NPV
- B. NPIV
- C. VSAN
- D. FCoE

Correct Answer: C

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#### QUESTION 19

Which technology differentiates a data center designed around Cisco equipment versus another vendor?





- A. NPV
- B. NPIV
- C. VSANs
- D. FCoE

Correct Answer: C

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#### QUESTION 20

You plan to implement a new Cisco Nexus 7000 Series Switch that will have N7K-F132XP- 15 F1 modules. How many fabrics modules (FAB 1) do you need to achieve the full F1 module capacity?

- A. 2
- B. 3
- C. 5
- D. 10

Correct Answer: D

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#### QUESTION 21

Which three options are features of the Cisco Prime Data Center Network Manager? (Choose three.)

- A. SAN inventory
- B. security rules and objects views
- C. device groups and scoping
- D. HTTPS connections to devices
- E. authentication services
- F. inventory and performance views

Correct Answer: BCE

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#### QUESTION 22

Your customer is designing a new data center and would like the aggregation layer to be able to route and have Layer 3 capability. What Cisco platform will meet this requirement?

- A. Cisco Nexus 1000v
- B. Cisco Nexus 5596 without Layer 3 daughter card



- C. Cisco MDS 9506 chassis with supervisor engine
- D. Cisco Nexus 7010 switch with Enterprise Services Package

Correct Answer: D

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#### QUESTION 23

Which two business requirements are factors in choosing to use Cisco Unified Fabric? (Choose two.)

- A. increased network component security
- B. short-term capital expenditure savings
- C. reduced license costs for virtual servers
- D. maximized energy efficiency
- E. long-term cost savings

Correct Answer: AD

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#### QUESTION 24

Which is a feature of the Data Center Core layer?

- A. The core layer provides the high-speed packet switching backplane for all flows going in and out of the data center.
- B. The core layer provides the high-speed packet switching backplane for all flows going out of the data center.
- C. The core layer is purely a Layer 2 environment. As a result, the core layer is not free of spanning tree and vPC.
- D. The core layer provides connectivity to multiple aggregation modules and provides a resilient Layer 3 routed fabric with a single point of failure.

Correct Answer: A

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#### QUESTION 25

Which option is an example of the network services that are provided at the aggregation layer of the data center network?

- A. OTV
- B. MPLS
- C. LISP
- D. ACE

Correct Answer: D

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#### QUESTION 26

Which three statements about Cisco UCS Manager are true? (Choose three.)

- A. supports role-based user access for fine-grained control of user rights
- B. builds a hardware inventory for the Cisco UCS domain
- C. performs configuration of Fabric Interconnects
- D. deploys operating systems to servers
- E. supports multiple Cisco UCS domains
- F. uses a built-in LDAP server to authenticate users
- G. Locales provide users with language translations of the Cisco UCS Manager.
- H. provides basic tools for troubleshooting and managing external storage systems

Correct Answer: ABC

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#### QUESTION 27

You are designing the access layer. Which three pinning configurations for a FEX port are valid?

(Choose three.)

- A. to one uplink port channel
- B. to one physical uplink
- C. to four uplink port channels
- D. to four physical uplinks
- E. to eight uplink port channels
- F. to six physical uplinks

Correct Answer: CDF

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#### QUESTION 28

Which access layer technology will provide redundancy if there is a link failure on a server link?

- A. VDC
- B. MPLS
- C. vPC



D. Cisco OTV

Correct Answer: C

### QUESTION 29

Refer to the Exhibit:

```
node ip 192.168.200.10
node ip 192.168.200.20
node ip 192.168.200.30

itd test
device-group waf-dg
ingress interface Eth1/1
failaction node least-bucket
no shut

switch# sh run rpa

route-map waf_itd_pool permit 10
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_1
set ip next-hop verify-availability 192.168.200.10 track 2
route-map waf_itd_pool permit 11
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_2
set ip next-hop verify-availability 192.168.200.20 track 3
route-map waf_itd_pool permit 12
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_3
set ip next-hop verify-availability 192.168.200.20 track 3
route-map waf_itd_pool permit 13
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_4
set ip next-hop verify-availability 192.168.200.10 track
```

Which action does Cisco ITD perform when a node fails?

- A. evenly distribute traffic across all the remaining nodes.
- B. transparently adds nodes to the waf-dg
- C. assigns failed node buckets to another active node
- D. removes the failed node from the waf-dg

Correct Answer: C



### QUESTION 30

Which data center management tool provides performance and capacity monitoring and trending for SAN and LAN infrastructure?

- A. Cisco UCS Manager
- B. Cisco NAM
- C. Cisco NetFlow
- D. Cisco DCNM

Correct Answer: D

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### QUESTION 31

Which two statements about OTV are true? (Choose two.)

- A. OTV forwards and processes spanning-tree BPDUs between sites to ensure a loop-free topology.
- B. All OTV overlay interfaces must use the same join interface.
- C. OTV provides STP isolation because it does not transmit BPDUs across the overlay
- D. OTV utilizes the IS-IS routing protocol to propagate MAC address reachability information
- E. Multicast support in the transport network is a strict requirement to establish OTV adjacencies.
- F. OTV propagates MAC address reachability information via the underlying IS-IS controlplane.

Correct Answer: BD

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### QUESTION 32

Which two devices are recommended for an MoR design that includes Cisco Unified Fabric? (Choose two.)

- A. Cisco Nexus 5548UP
- B. Cisco Nexus 4004
- C. Cisco Nexus 3064
- D. Cisco Nexus 2232PP
- E. Cisco Nexus 2248T

Correct Answer: AD

---

### QUESTION 33



DRAG DROP

Select and Place:

Drag the step(s) on the left to the appropriate design phase in the correct order on the right to describe the typical design process.

Empty boxes for drag-and-drop	<div style="background-color: #FFD700; padding: 5px; text-align: center;"><b>Assessment</b></div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Design workshop</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Audit</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Analysis</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;"><b>Plan</b></div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Solution Sizing</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Deployment provision</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Migration strategy</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;"><b>Verification</b></div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Proof of concept</div>
-------------------------------	---

Inventory collection is a necessary first step to assess an existing brownfield Data Center; this collection will include the physical and virtual characteristics of every device in the Data Center. Drag the characteristic on the left to match the appropriate inventory item on the right.

<div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Vendor and type</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Type and number of DIMMs</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">NIC/HBA types</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Type and volume size</div> <div style="background-color: #ADD8E6; padding: 5px; text-align: center;">Type and versions</div>	<div style="background-color: #FFD700; padding: 5px; text-align: center;">Network interfaces</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Storage</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Memory</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Applications</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">CPU's</div>
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Correct Answer:

**QUESTION 34**

Which statement accurately describes Cisco NSF?

- A. To configure NSF for an OSPF routing environment, all Area 0 devices and ABRs must be NSF-aware and must be configured for OSPF graceful restart.
- B. To configure NSF for an IS-IS routing environment, only L1 routers must be NSF-aware and must be configured for IS-IS graceful restart
- C. To configure NSF for a BGP routing environment, all neighboring devices must be NSF-aware and must be configured for BGP graceful restart



D. To configure NSF for an IS-IS routing environment, only L2 routers must be NSF-aware and must be configured for IS-IS graceful restart

Correct Answer: C

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#### QUESTION 35

You plan to implement a new data center solution that will use an IGP. Which routing protocol must you use in a large full-mesh network that requires fast convergence and scalability?

- A. LDP
- B. BGP
- C. RIP
- D. EIGRP
- E. IS-IS

Correct Answer: E

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#### QUESTION 36

Which of the following is true with respect to Cisco Adapter FEX?

- A. Cisco Adapter FEX is only supported on vSwitch.
- B. Cisco Adapter FEX enables the server adapter to be logically partitioned into multiple vNICs.
- C. Cisco Adapter FEX does not provide architectural flexibility.
- D. Cisco Adapter FEX increases the number of cables in the data center.

Correct Answer: B

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#### QUESTION 37

Which protocol must the NICs, CNAs, and underlying physical data center network fabric support to enable lossless iSCSI?

- A. DCBX
- B. FSPF
- C. TRILL
- D. PBB

Correct Answer: A

---



#### QUESTION 38

Which additional functionality does NetFlow provide?

- A. device configuration management
- B. enhanced network anomaly and security detection
- C. drop anomaly IP
- D. disable Cisco Discovery Protocol per interface

Correct Answer: B

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#### QUESTION 39

Which data center interconnect technology must you use to provide a Layer 2 extension over a Layer 3 cloud?

- A. Cisco FabricPath
- B. OTV
- C. LISP
- D. vPC
- E. vPC+

Correct Answer: B

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#### QUESTION 40

At which data center layer is IGMP snooping implemented?

- A. access
- B. leaf
- C. core
- D. aggregation

Correct Answer: A

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