

200-150

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200-150

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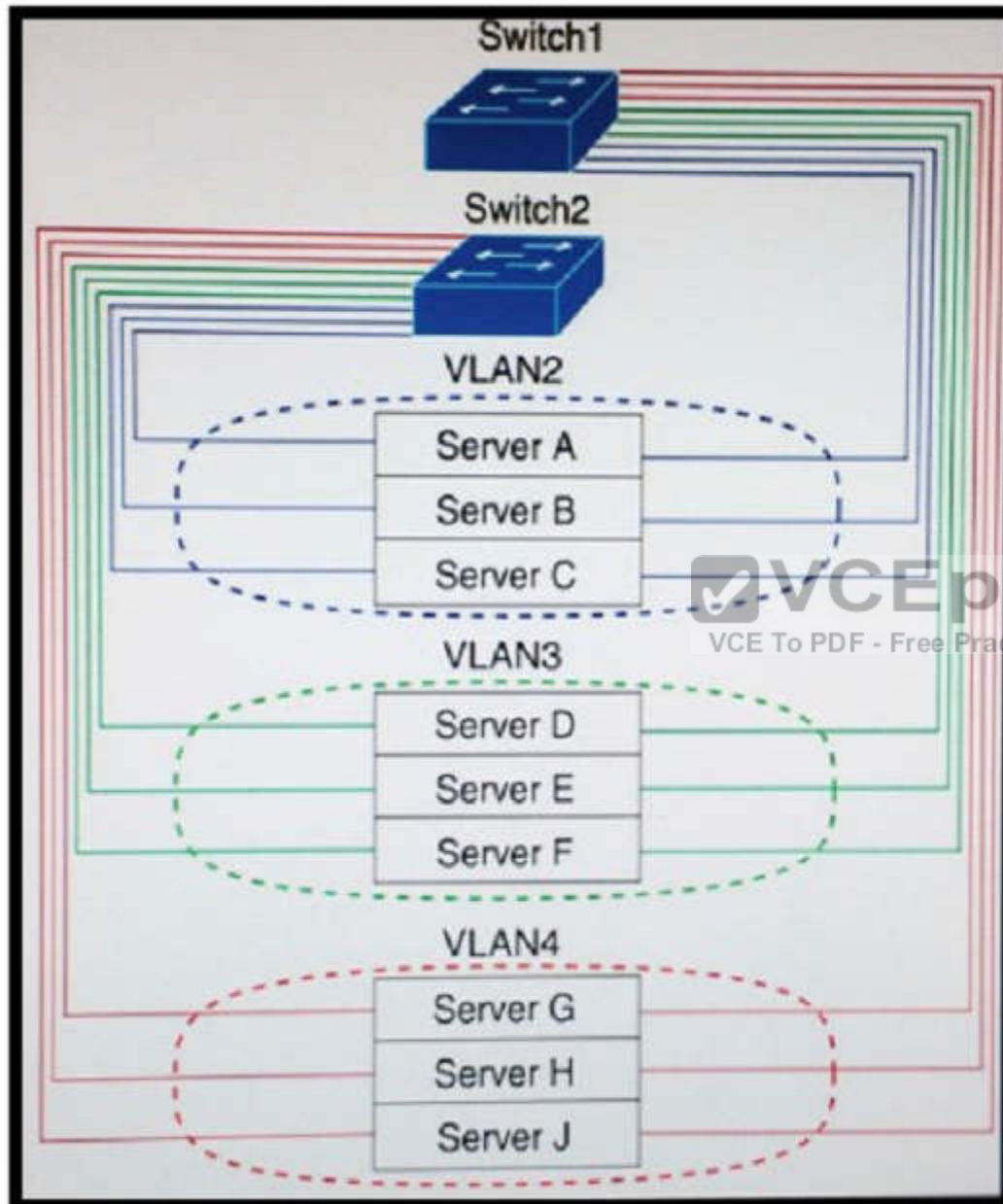
Introducing Cisco Data Center Networking (DCICN)

Exam A

QUESTION 1

View the Exhibit.





Refer to the exhibit. Two Layer 2 Cisco Nexus switches are connected to application servers in a data center. Server A cannot communicate with servers that are in VLANs 3 and 4, but it can communicate with server B and C.

What is the cause of the problem?

- A. InterVLAN routing is not enabled on both switches.
- B. Switch 1 and switch 2 are not physically connected via an access link.
- C. A router must be connected to both switches and provide InterVLAN routing.
- D. Switch 1 and switch 2 are not physically connected via a trunk link.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 2

Which two options describe functions of the data center aggregation layer? (Choose two.)

- A. services layer
- B. high-speed packet switching
- C. repeater
- D. access control
- E. QoS marking

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 3

Which two options are valid VTP commands? (Choose two.)

- A. vtp version
- B. vtp VLAN

- C. vtp client mode
- D. vtp static
- E. feature vtp

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 4

Which two features must be licensed on a Cisco Nexus 7000 Switch? (Choose two.)

- A. Virtual Port Channel
- B. Layer 3
- C. Virtual Device Contexts
- D. iSCSI
- E. Fibre Channel

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 5

Which two options are multicast addresses? (Choose two.)

- A. FD00::2
- B. 192.168.2.2
- C. FF05::2
- D. 226.10.10.10
- E. 240.1.0.1

Correct Answer: CD

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 6

What is the minimum number of fabric modules that should be installed in the Cisco Nexus 7000 chassis for N 1 redundancy using M1-Series line card?

- A. 3
- B. 4
- C. 5
- D. 6

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 7

What layer of the OSI Model provides the logical addressing that routers use for path determination?

- A. transport
- B. network
- C. application
- D. presentation

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 8

View the exhibit.

Preamble	DST	SRC	Length	Data	FCS
8 Bytes	22 Bytes		Max 1,492 Bytes		4 Bytes

Refer to the exhibit. What type of network communication is depicted?

- A. 802.3 frame
- B. TCP packet
- C. UDP packet
- D. Ethernet frame

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 9

Which type of media uses electromagnetic waves that are generated by lasers, is often used in campus backbones, and is capable of transmitting to a distance of 60 kilometers?

- A. shielded twisted-pair cable
- B. coaxial cable
- C. multimode fiber-optic cable
- D. single-mode fiber-optic cable

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 10**

A network engineer wants to apply for new license key file.

Which command should be used to obtain the switch serial number?

- A. MDS-A# show license serial-number
- B. MDS-A# show running-config | include serial-number
- C. MDS-A# show host-id
- D. MDS-A# show license host-id

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

**QUESTION 11**

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 four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Scenario:

Customer is configuring FCoE and NPV in their Data Center on Cisco Nexus 5000 Series Switches. Please go through the Topology and Exhibit 1 through 4 to answer the questions.

Topology:

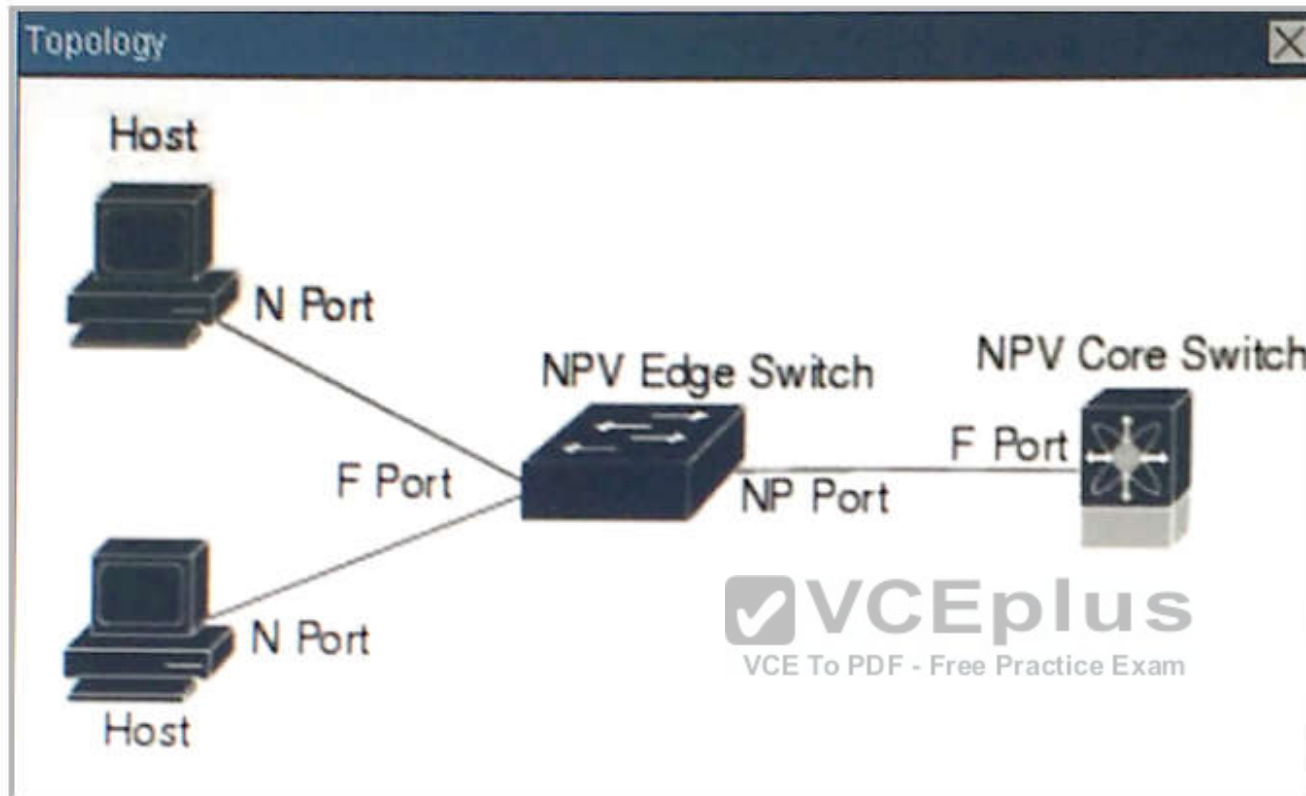


Exhibit 1.

```
switch# configure terminal
switch(config)# npv enable
```

Exhibit 2.

```
switch# show npv flogi-table
```

```
-----  
SERVER  
INTERFACE VSAN FCID      PORT NAME      NODE NAME      EXTERNAL  
INTERFACE  
-----  
vfc3/1    1    0xee0008 10:00:00:00:c9:60:e4:9a 20:00:00:00:c9:60:e4:9a fc2/1  
vfc3/1    1    0xee0009 20:00:00:00:0a:00:00:01 20:00:00:00:c9:60:e4:9a fc2/2  
vfc3/1    1    0xee000a 20:00:00:00:0a:00:00:02 20:00:00:00:c9:60:e4:9a fc2/3  
vfc3/1    1    0xee000b 33:33:33:33:33:33:33:33 20:00:00:00:c9:60:e4:9a fc2/4  
Total number of flogi = 4
```

Exhibit 3.

```
switch# show npv status
```

```
npiv is enabled
```

```
External Interfaces:
```

```
=====
```

```
Interface: fc2/1, VSAN: 1, FCID: 0x1c0000, State: Up
```

```
Interface: fc2/2, VSAN: 1, FCID: 0x040000, State: Up
```

```
Interface: fc2/3, VSAN: 1, FCID: 0x260000, State: Up
```

```
Interface: fc2/4, VSAN: 1, FCID: 0x1a0000, State: Up
```

```
Number of External Interfaces: 4
```

```
Server Interfaces:
```

```
=====
```

```
Interface: vfc3/1, VSAN: 1, NPIV: No, State: Up
```

```
Number of Server Interfaces: 1
```

Exhibit 4.

```
switch# show npv status

npiv is enabled
disruptive load balancing is enabled
External Interfaces:

=====

Interface: fc2/1, VSAN: 2, FCID: 0x1c0000, State: Up
```

Which statement regarding Cisco Nexus 5000 Series switches is true?

- A. Cisco Nexus5000 Series switches operate in IP routing mode.
- B. Cisco Nexus 5000 Series switches operate in FCoE mode.
- C. Cisco Nexus 5000 Series switches operate in fabric mode.
- D. Cisco Nexus 5000 Series switches operate in NPV mode.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 12

Instructions:

- THIS TASK DOES NOT REAQUIRE DEVICE CONFIGURATION.
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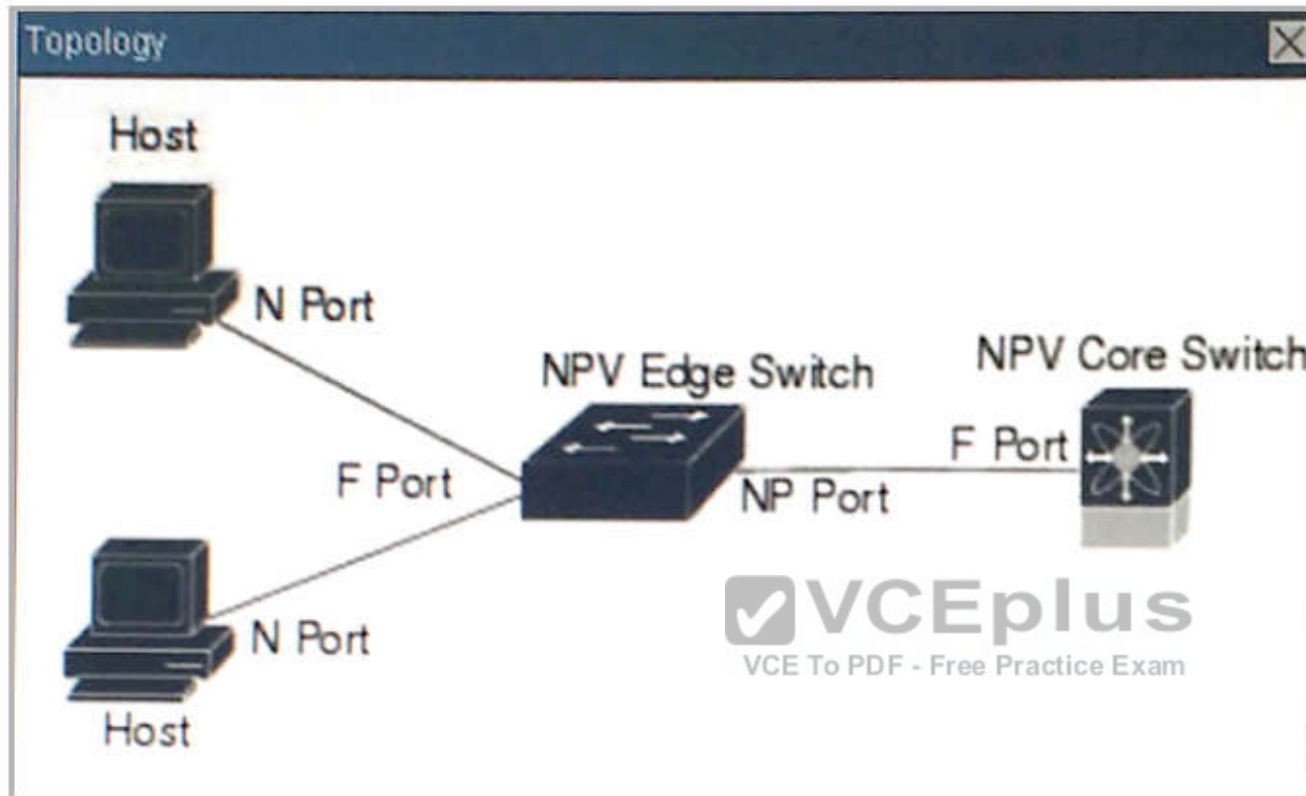


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vfc3/1    1    0xee0008 10:00:00:00:c9:60:e4:9a 20:00:00:00:c9:60:e4:9a fc2/1  
vfc3/1    1    0xee0009 20:00:00:00:0a:00:00:01 20:00:00:00:c9:60:e4:9a fc2/2  
vfc3/1    1    0xee000a 20:00:00:00:0a:00:00:02 20:00:00:00:c9:60:e4:9a fc2/3  
vfc3/1    1    0xee000b 33:33:33:33:33:33:33:33 20:00:00:00:c9:60:e4:9a fc2/4  
Total number of flogi = 4
```

Exhibit 3.

```
switch# show npv status
```

```
npiv is enabled
```

```
External Interfaces:
```

```
=====
```

```
Interface: fc2/1, VSAN: 1, FCID: 0x1c0000, State: Up
```

```
Interface: fc2/2, VSAN: 1, FCID: 0x040000, State: Up
```

```
Interface: fc2/3, VSAN: 1, FCID: 0x260000, State: Up
```

```
Interface: fc2/4, VSAN: 1, FCID: 0x1a0000, State: Up
```

```
Number of External Interfaces: 4
```

```
Server Interfaces:
```

```
=====
```

```
Interface: vfc3/1, VSAN: 1, NPIV: No, State: Up
```

```
Number of Server Interfaces: 1
```

Exhibit 4.

```
switch# show npv status

npiv is enabled
disruptive load balancing is enabled
External Interfaces:

=====

Interface: fc2/1, VSAN: 2, FCID: 0x1c0000, State: Up
```

Which statement is true regarding configuring NPV mode?

- A. When you enable NPV, the system configuration is erased and the switch reboots.
- B. When you enable NPV, the system configuration is not erased and the switch doesn't reboot.
- C. In Exhibit 3 NPV is enabled. but Server Interface to the external switch is not tied to correct vfc 2/1.
- D. In NPV mode, the core switch relays all traffic from server-side ports to the edge switch and core switch provides N ports.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Instructions:

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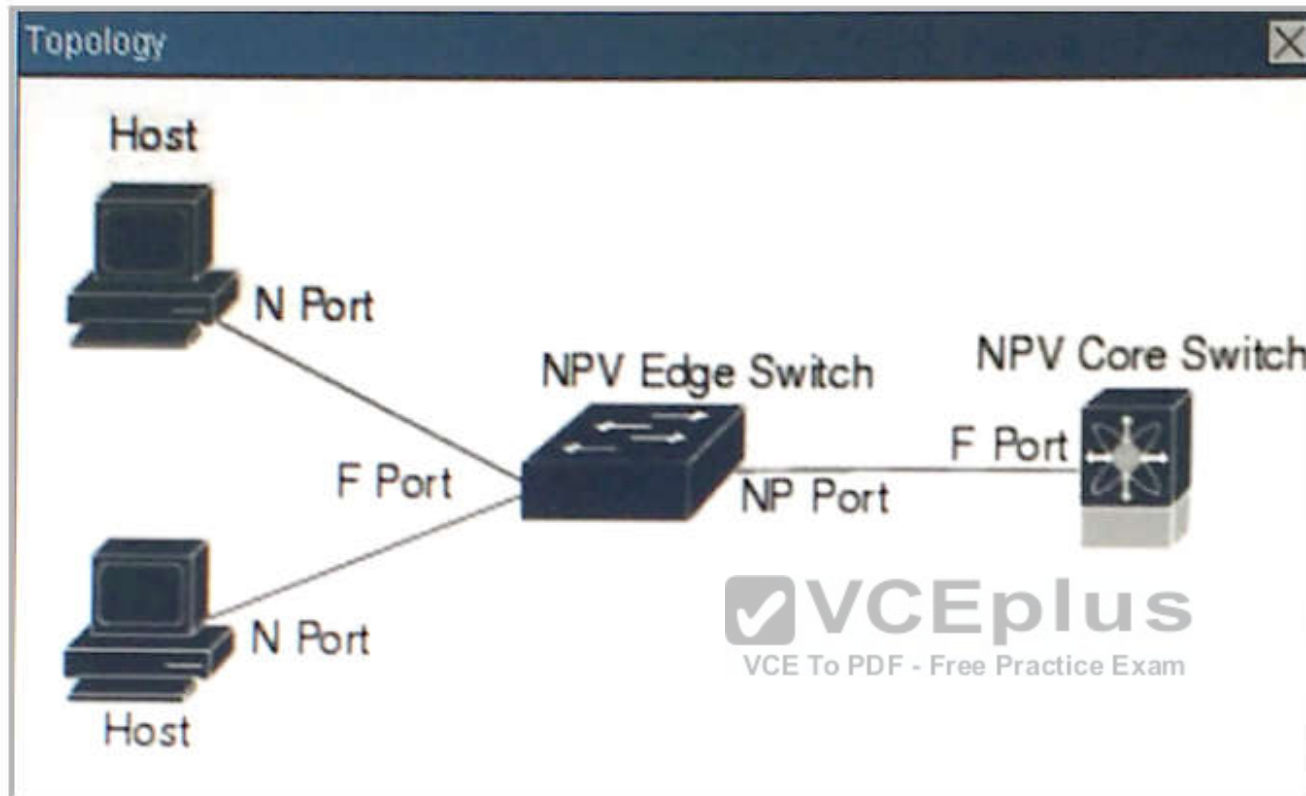


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vfc3/1    1    0xee0009 20:00:00:00:0a:00:00:01 20:00:00:00:c9:60:e4:9a fc2/2  
vfc3/1    1    0xee000a 20:00:00:00:0a:00:00:02 20:00:00:00:c9:60:e4:9a fc2/3  
vfc3/1    1    0xee000b 33:33:33:33:33:33:33:33 20:00:00:00:c9:60:e4:9a fc2/4  
Total number of flogi = 4
```

Exhibit 3.

```
switch# show npv status
```

```
npiv is enabled
```

```
External Interfaces:
```

```
=====
```

```
Interface: fc2/1, VSAN: 1, FCID: 0x1c0000, State: Up
```

```
Interface: fc2/2, VSAN: 1, FCID: 0x040000, State: Up
```

```
Interface: fc2/3, VSAN: 1, FCID: 0x260000, State: Up
```

```
Interface: fc2/4, VSAN: 1, FCID: 0x1a0000, State: Up
```

```
Number of External Interfaces: 4
```

```
Server Interfaces:
```

```
=====
```

```
Interface: vfc3/1, VSAN: 1, NPIV: No, State: Up
```

```
Number of Server Interfaces: 1
```

Exhibit 4.

```
switch# show npv status

npiv is enabled
disruptive load balancing is enabled
External Interfaces:

=====

Interface: fc2/1, VSAN: 2, FCID: 0x1c0000, State: Up
```

What can you tell about server ports and their external interfaces from the exhibits?

- A. vfc 3/1 is not correctly connected to server external interface fc2/1.
- B. vfc 3/1 is not correctly connected to server external interface fc2/1 and flogi are unsuccessful.
- C. Server interface vfc 3/1 is assigned to NP uplinks fc2/1, fc2/2, fv2/3, and fc2/4. There are 4 successful flogi.
- D. Server interface vfc 3/1 is assigned to NP uplinks fc2/1, fc2/2, fv2/3, and fc2/4. There are 4 flogi are in initialization state.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Instructions:

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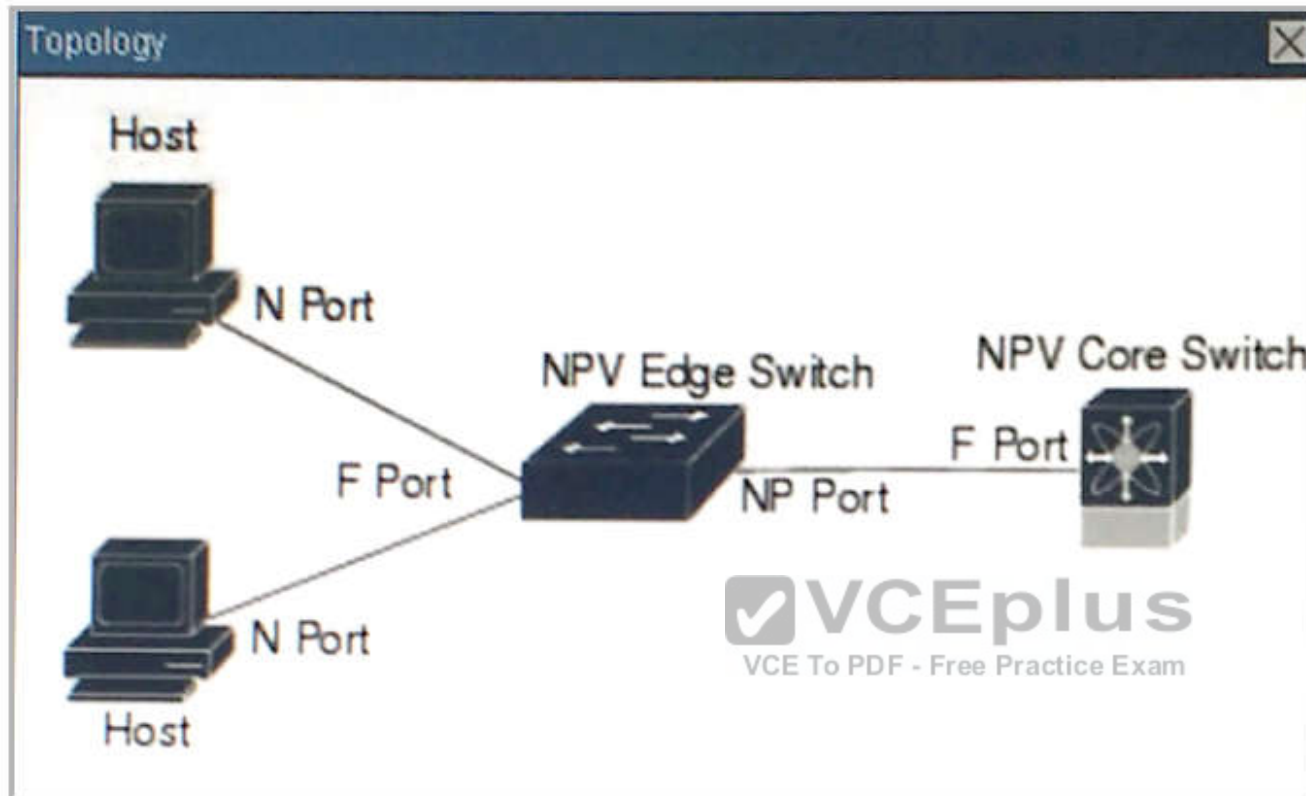


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```
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-----  
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vfc3/1    1    0xee0009 20:00:00:00:0a:00:00:01 20:00:00:00:c9:60:e4:9a fc2/2  
vfc3/1    1    0xee000a 20:00:00:00:0a:00:00:02 20:00:00:00:c9:60:e4:9a fc2/3  
vfc3/1    1    0xee000b 33:33:33:33:33:33:33:33 20:00:00:00:c9:60:e4:9a fc2/4  
Total number of flogi = 4
```

Exhibit 3.

```
switch# show npv status
```

```
npiv is enabled
```

```
External Interfaces:
```

```
=====
```

```
Interface: fc2/1, VSAN: 1, FCID: 0x1c0000, State: Up
```

```
Interface: fc2/2, VSAN: 1, FCID: 0x040000, State: Up
```

```
Interface: fc2/3, VSAN: 1, FCID: 0x260000, State: Up
```

```
Interface: fc2/4, VSAN: 1, FCID: 0x1a0000, State: Up
```

```
Number of External Interfaces: 4
```

```
Server Interfaces:
```

```
=====
```

```
Interface: vfc3/1, VSAN: 1, NPIV: No, State: Up
```

```
Number of Server Interfaces: 1
```

Exhibit 4.

```
switch# show npv status

npiv is enabled
disruptive load balancing is enabled
External Interfaces:

=====

Interface: fc2/1, VSAN: 2, FCID: 0x1c0000, State: Up
```

Which two statements are true regarding disruptive load balancing and regarding the configuration in this example? (Choose two.)

- A. In this scenario disruptive load balancing is disabled.
- B. In this scenario disruptive load balancing is enabled.
- C. Since FCID: 0x1c0000 is reserved, disruptive load balancing is not configured correctly.
- D. When disruptive load balancing is enabled, NPV redistributes the server interfaces across all available NP uplinks when a new NP uplink becomes operational. To move a server interface from one NP uplink to another NP uplink, NPV forces reinitialization of the server interface so that the server performs a new login to the core switch.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

A network design team has decided to use a standard protocol to consolidate the Ethernet and SAN data using the existing Nexus switches.

Which I/O technology can satisfy this need?

- A. FCoE
- B. IEEE 802.1AB
- C. SCSI
- D. ATOM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 16

Which command set will create an access control list on a Cisco Nexus switch to permit only unencrypted Web traffic from any source to destination host 10.10.1.110?

- A. N5K-A(config)#access-list 101 permit tcp any host 10.10.1.110 eq 80
- B. N5K-A(config)#ip access-list 101N5K-A(config-acl)#permit tcp any host 10.10.1.110 eq 80N5K-A(config-acl)#permit ip any any
- C. N5K-A(config)#ipaccess-list 101N5K-A(config-acl)#permit tcp any host 10.10.1.110 eq 80
- D. N5K-A(config)#access-list 101 permit tcp any host 10.10.1.110 eq 80N5K-A(config)#access-list 101 deny ip any any

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 17

An administrator connected a new server to a Cisco MDs 9222i on Port FCL/20, but did not capture the world wide name of the host bus adapter.

Which command returns the needed information?

- A. show wwn status
- B. show interface fc 1/20
- C. show flogi database
- D. show fcs database

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 18

Which two terms can take the place of the wildcard mask in an ACL? (Choose two.)

- A. eq
- B. deny
- C. host
- D. all
- E. any

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 19

Which Cisco UCS power policy mode enables a configuration that can tolerate the loss of an input power circuit?

- A. nonredundant
- B. Grid
- C. N+1 in normal mode
- D. N+1 in high-density mode

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 20

A network uses one pair of Layer 3 switches for core and distribution purposes.

Which design is this network using?

- A. collapsed core

- B. collapsed distribution
- C. collapsed Layer 3 core
- D. collapsed Layer 2-3

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 21

Which address type is used in IPv4 but is not used in IPv6?

- A. multicast
- B. broadcast
- C. anycast
- D. unicast

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 22

Which two are functions of the data center access layer? (Choose two.)

- A. server connections
- B. VLAN creation
- C. packet filtering
- D. high data transfer rate
- E. high network fault tolerance

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 23

What two technologies can be used to connect to storage arrays on a converged Ethernet/IP network? (Choose two.)

- A. FCoE
- B. Fibre Channel
- C. iSCSI
- D. InfiniBand
- E. FabricPath

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 24

DRAG DROP

Drag and drop each port description on the left to the port type on the right required to support it.

Select and Place:

	Ethernet
server port	
Fibre Channel uplink port	
Fibre Channel storage port	
appliance port channel member	
appliance port	
Ethernet uplink port	
FCoE port	
	Fibre Channel

Correct Answer:

	Ethernet
	Fibre Channel uplink port
	Fibre Channel storage port
	appliance port channel member
	appliance port
	FCoE port
	Fibre Channel
	Ethernet uplink port
	server port

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

What describes how the 802.1Q protocol facilitates the transmission of multiple Layer 2 networks on a single link?

A. adds 802.1Q tag information between the source MAC address and the Ether Type/Length fields

- B. encapsulates the frame inside an 802.1Q tunnel
- C. adds 802.1Q information between the preamble and the destination MAC address
- D. encapsulates the packet inside an 802.1Q tunnel
- E. transparently directs packets based on 802.1Q tags inside the header

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 26

An engineer is configuring a new MDS switch. The switch is powered on, the customer connects to the console, and the initial setup script is started.

Which two items can be configured during this setup process? (Choose two.)

- A. default port-channel mode
- B. default port VSAN membership
- C. default switchport interface state
- D. default zone mode
- E. default storage VDC



Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 27

What native Fibre Channel technology facilitates connecting multiple Fibre Channel devices behind a single FC address?

- A. Fiber Channel over Ethernet
- B. N-Port Virtualization
- C. Fibre Channel Arbitrary Loop
- D. N-Port Identification Virtualization

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 28

Which command should be used to determine which hosts are Fibre Channel targets?

- A. MDS-A# show host database
- B. MDS-A# show flogi database
- C. MDS-A# show fcns database
- D. MDS-A# show host-id

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 29

At which layer of the OSI Model is TCP traffic encapsulated?

- A. transport
- B. data-link
- C. application
- D. presentation

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 30

A customer wants to connect to their SAN via Fibre Channel.

Which two devices can be used to provide connectivity? (Choose two.)

- A. Cisco Nexus 5548UP Switch
- B. Cisco MDS 9148 Multilayer Fabric Switch
- C. Cisco Nexus GE FabricExtender
- D. Cisco Catalyst 6509 Switch
- E. Cisco Nexus 7010 Switch

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 31

Which two hosts are part of subnet 172.16.160.0/20? (Choose two.)

- A. 172.16.168.0
- B. 172.16.176.1
- C. 172.16.160.255
- D. 172.16.160.0
- E. 172.16.176.255

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 32

Which protocol is supported when OSPFv2 is used as the routing protocol?

- A. NetBios
- B. LAT
- C. IPv4

D. IPv6

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 33

View the Exhibit.

	SOF	DST	SRC	Length	Data	FCS
7 Bytes	1 byte	22 bytes			Max 1,492 Bytes	

Refer to the exhibit. Which type of network communication is depicted?

- A. 802.3 frame
- B. TCP frame
- C. Ethernet packet
- D. UDP packet

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 34

Which is the maximum number of fabric modules that can be installed in a Cisco Nexus 7000 chassis?

- A. 5
- B. 6
- C. 4
- D. 7

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 35

Which address and subnet combination is valid for a host assignment?

- A. 172.23.175.210/15
- B. 10.100.74.127/25
- C. 192.168.73.223/29
- D. 10.230.33.15/28



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 36

Which two statements about configuring VLANs on the Cisco Nexus 7000 platform are true? (Choose two.)

- A. To change VLAN information, the administrator must be at the switch (config) # prompt.
- B. VLAN licensing is required for use.
- C. The command copy running-config startup-config will save changes to the VLAN database.
- D. Software updates are disruptive to VLANs.
- E. VLANs with the same number are unique to their VDC.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 37

Which statement is true regarding FIP in FCoE enabled Storage Area Networks?

- A. It discovers and initializes converged network capable devices connected to an Ethernet cloud.
- B. It uses a dedicated EtherType of 0xFFFF.
- C. It reduces the number of network interface cards required to connect to disparate storage and IP networks.
- D. It reduces the number of tables and switches.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 38

A customer requires two separate physical pathways between multiple initiators and multiple targets.

Which technology meets this requirement on a single Cisco MDS9148 switch?

- A. zoning
- B. port security
- C. LUN masking
- D. VSANs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 39

What is the maximum distance that is supported by Cisco passive Twinax cables?

- A. 5 m
- B. 3 m
- C. 4 m
- D. 10 m

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 40

Which situation will cause a switch to flood traffic out all of the ports on the switch?

- A. The switch receives a destination MAC address of 0000.0000.0000.
- B. The switch receives a destination MAC address of ffff.ffff.ffff.
- C. The switch receives a source MAC address of 0000.0000.0000.
- D. The switch's TCAM reaches the MAC address limit.
- E. The switch was configured in cut-through mode.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 41

Which three layers of the OSI model are included in the application layer of the TCP/IP model? (Choose three.)

- A. 2
- B. 6
- C. 3
- D. 5
- E. 7

F. 4

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 42

What is the maximum working distance of a 1000BASE-ZX SFP transceiver when using ordinary single mode fiber?

- A. up to 70 kilometers
- B. up to 40 kilometers
- C. up to 550 kilometers
- D. up to 10 kilometers

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 43

Which option includes the two devices that can be connected when a Cisco Fabric Extender Transceiver is used?

- A. Server to Cisco Nexus 5548 Switch
- B. Server to Cisco Nexus 5010 Switch
- C. Cisco Nexus 2000 Series Fabric Extender to Cisco Nexus 5500 Switch
- D. Server to Cisco Nexus 2000Series Fabric Extender

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 44

What is the minimum number of disks that are needed in RAID 1?

- A. 4 disks
- B. 2 disks
- C. 8 disks
- D. 16 disks

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 45

Which option describes what a switch does after it learns that a host has connected to a switch port?

- A. Flood the frame only on all of its trunk ports.
- B. Create a MAC to port mapping entry in MAC ports.
- C. Flood the frame only on all of its access ports.
- D. Discard the frame.



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 46

Which two port types are needed to build out an FCoE pass-through switch in NPV mode while maintaining Fibre Channel packet visibility? (Choose two.)

- A. VN Port
- B. VE Port
- C. VF Port
- D. Edge Port
- E. N Port

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 47

What are two physical components of the Cisco UCS B-Series server? (Choose two.)

- A. mezzanine slots
- B. power supplies (maximum of two)
- C. lockable front door
- D. redundant hot swappable fans
- E. CPU sockets

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 48

What two actions can be taken to enable inter-VLAN communications in the data center? (Choose two.)

- A. extend Layer 2 services to a Layer 3 capable VLAN using Layer 3 tunneling
- B. use a routing protocol to direct packets into the Layer 2 network
- C. connect Layer 2 VLANs together with 802.1Qtrunks
- D. deploy a router as a Layer 3 services gateway attached inside each Layer 2 VLAN
- E. install a Layer 3 capable switch in the data center

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 49

Which two options are file-based storage protocols? (Choose two.)

- A. Telnet
- B. CIFS
- C. Fibre Channel
- D. NFS
- E. iSCSI

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 50

View the Exhibit.



INTERFACE	VSAN	FCID	PORT NAME	NODE NAME
fc7/1	1	0xb200e2	21:00:00:04:cf:27:4b:2c	20:00:00:04:cf:27:4b:2c
fc7/1	1	0xb200e1	21:00:00:04:cf:4c:18:01	20:00:00:04:cf:4c:18:01
fc7/1	1	0xb200d1	21:00:00:04:cf:4c:18:64	20:00:00:04:cf:4c:18:64
fc7/1	1	0xb200ce	21:00:00:04:cf:4c:16:aa	20:00:00:04:cf:4c:16:aa
fc7/1	1	0xb200cd	21:00:00:04:cf:4c:18:ab	20:00:00:04:cf:4c:18:ab

Refer to the exhibit. What two conclusions can be made based upon the output? (Choose two.)

- A. regular format WWNs are being used
- B. the command show flogi database was run

- C. the command show fcn database vsan 1 was run
- D. registered name format WWNs are being used
- E. extended format WWNs are being used

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 51

A SAN administrator recently added a new zone to the VSAN 2 zoneset named zoneset2, but the server is still unable to access the shared storage.

Which command will resolve this issue?

- A. zone copy active-zoneset full-zoneset
- B. zoneset activate zoneset 2
- C. zone default-zone permit vsan 2
- D. copy running-config startup-config

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 52

Switch A has BPDU filtering configured on all active interfaces. A second switch, Switch B, is connected to Switch A.

Which two actions will Switch A take when Switch B is connected to it? (Choose two.)

- A. Switch A will not send any BPDUs.
- B. Switch A will transition the port a normal spanning tree port.
- C. Switch A will not accept any BPDUs.
- D. Switch A will err disable the port.
- E. Switch A will start sending BPDUs to Switch B.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 53

What is the principle function of the data center core layer?

- A. high-speed packet switching
- B. access control
- C. firewalling and intrusion prevention
- D. QoS marking

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 54

Which command set creates an access control list on a Cisco Nexus switch to deny only FTP traffic from any source to destination host 10.10.10.10?

- A. N5K-A(config)# ip access-list 101
N5K-A(config-acl)# deny udp any host 10.10.1.110 eq 21
N5K-A(config-acl)# permit ip any any
- B. N5K-A(config)# ip access-list 101
N5K-A(config-acl)# deny tcp any host 10.10.1.110 eq ftp
- C. N5K-A(config)#access-list 101 deny tcp any host 10.10.1.110 eq ftp
N5K-A(config)#access-list 101deny ip any any
- D. N5K-A(config)# ip access-list 101
N5K-A(config-acl)# deny tcp any host10.10.1.110 eq 21
N5K-A(config-acl)# permit ip any any

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 55

View the Exhibit.

```
switch(config-if)# sh int fc2/1
fc2/1 is down (Initializing)
Hardware is Fibre Channel, SFP is short wave laser w/o OFC (SN)
Port WWN is 20:42:00:0d:ec:a4:3b:80
Admin port mode is NP, trunk mode is on
```

Refer to the exhibit. NP uplink ports connected to the core NPIV switch do not come online and are stuck in initializing state.

Which option is a cause for this behavior?

- A. The upstream NP Ports and the downstream server F Ports on the NPV edge switch may not be in the same VSA.
- B. The core switch has not been enabled for NPIV.
- C. The upstream VSAN ports and the server ports are in full duplex mode.
- D. Related VSAN identifier is not allowed on Virtual Port Channels toward the edge switch.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 56

a network design team has mandated that IP-only routing protocols be used in the network.

Which two routing protocols will they want to use? (Choose two.)

- A. BGP
- B. OSPF

- C. RIP
- D. EIGRP
- E. IS-IS

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 57

An engineer implemented a new VSAN and examined the F-mode trunks connecting an upstream switch. The engineer noticed that the new VSAN is stuck in initializing.

Which two options explain why this is happening? (Choose two.)

- A. A device has not attempted to log in to the new VSAN across the trunk.
- B. Only the primary VSAN lists as active while subordinate VSANs stay initializing.
- C. The trunk must be disabled and re-enabled to join the new VSAN.
- D. Only the secondary VSAN lists as active while primary VSANs stay initializing.
- E. The new VSAN has not been configured in the upstream switch.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 58

An engineer created three VSANs on the Cisco MDS switch. VSAN 100 is allocated to the marketing department, VSAN 110 is allocated to the research department, and VSAN 120 is allocated to the business department. The engineer wants to verify that the interfaces for the research department are allocated accordingly.

Which command should the engineer use?

- A. mdsswitch# show vsan 110
- B. mdsswitch# show vsanmembership

- C. mdsswitch# show vsan
- D. mdsswitch# show vsanusage

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 59

Which two options are benefits of deploying FCoE beyond the access layer? (Choose two.)

- A. higher throughput compared to native Fibre Channel switches
- B. FCoE cannot be deployed beyond the access layer
- C. reduction inequipment requirements
- D. improved security compared to traditional Fibre Channel
- E. increased application support

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 60

A network engineer is verifying Layer 2 connectivity of a server to a Cisco Nexus switch by checking the Address Resolution Protocol table statistics.

Which command shows the MAC address, physical interface, VLAN, and IP address of a server on a Cisco Nexus switch?

- A. show ip arp interface
- B. show ip arp
- C. show ip arp detail
- D. show arp detail

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 61

Which two naming formats are used to identify an iSCSI node? (Choose two.)

- A. MAC
- B. EUI
- C. EHA
- D. IQN
- E. IPv6

Correct Answer: BD

Section: (none)

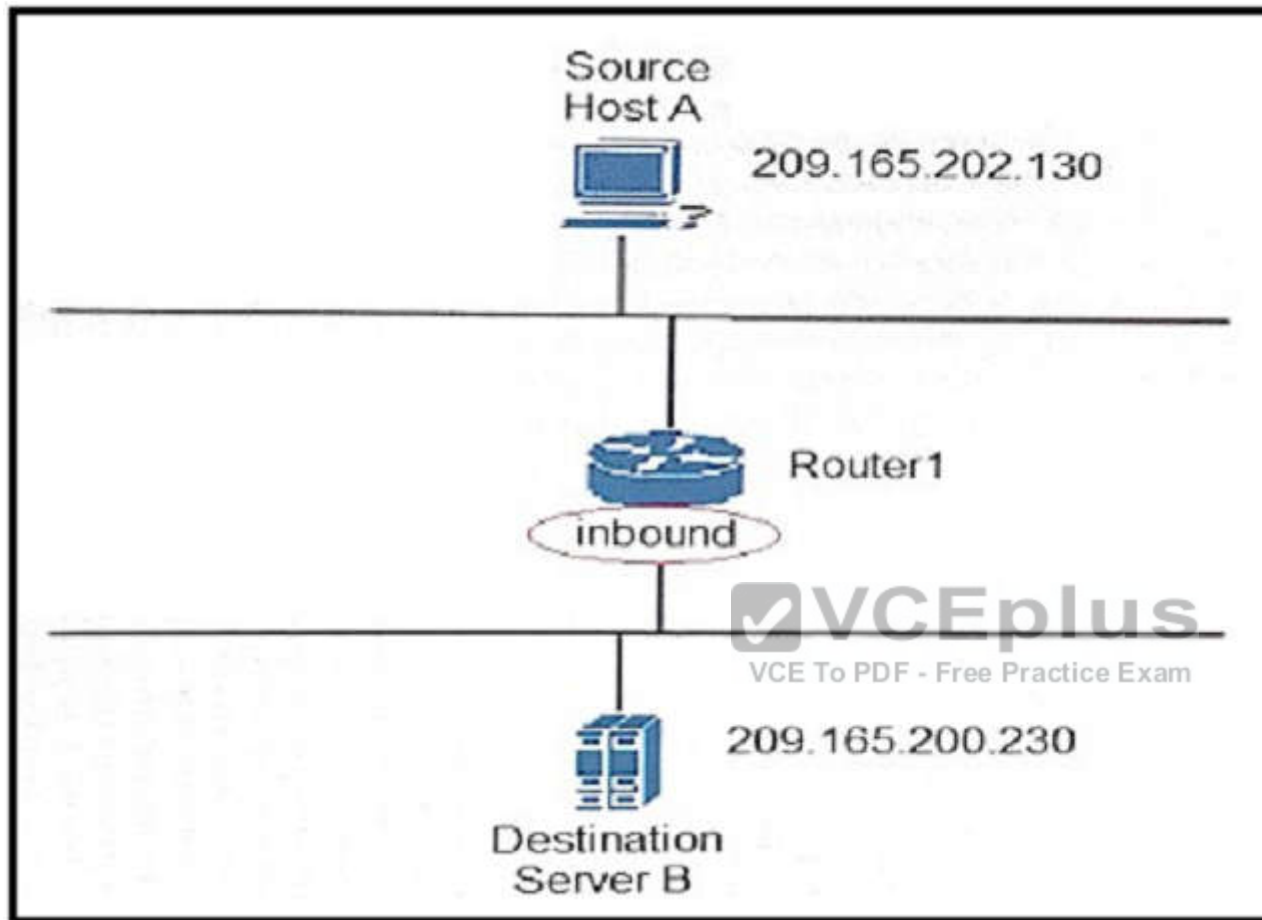
Explanation

Explanation/Reference:

Explanation:

QUESTION 62

View the Exhibit.



Refer to the exhibit. You are configuring an extended access list to permit a reply from Destination Server B to Source Host A for HTTP traffic.

Which extended access list should you implement on the inbound interface of Router1?

- A. `router(config)# permit tcp host 209.165.200.230 host 209.165.202.130 eq www`
- B. `router(config)# permit tcp host 209.165.200.230 eq www host 209.165.202.130`
- C. `router(config)# permit tcp host 209.165.202.130 host 209.165.200.230 eq www`
- D. `router(config)# permit tcp host 209.165.202.130 eq www host 209.165.200.230`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 63

Which two options are block-based storage protocols? (Choose two.)

- A. NFS
- B. iSCSI
- C. NAS
- D. FCoE
- E. CIFS

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 64

DRAG DROP

Drag and drop the zoning type on the left to the correct description on the right.

Select and Place:

hard zoning	name server-assisted zoning
port-based zoning	hardware-enforced zoning
interface-based zoning	specifying the WWN of the fabric port (the switch port WWN) as the zone-membership criterion
soft zoning	specifying the interface of the switch that is identified by the sWWN as the zone-membership criterion

Correct Answer:

	soft zoning
	hard zoning
	port-based zoning
	interface-based zoning

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

Which description of the AAA accounting feature is true?

- A. It regulates which options a user can access on a switch.
- B. It maintains a log of every management session used to access a switch.
- C. It verifies the identity of a user who is accessing a switch.
- D. It assembles a set of attributes that describe what a user is authorized to perform.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 66

DRAG DROP

Drag and drop the feature on the left to the correct description on the right.

Select and Place:

syslog	Provides access control and verifies whether the connected user can execute a submitted command.
authentication	The process of verifying the identity of the person or device accessing the resource.
TACACS+	Provides a method to collect and log information, and send the information to the AAA server for billing, auditing, and reporting.
authorization	A method of restricting or authorizing system access for users based on user roles and locales.
RBAC	
accounting	

Correct Answer:

syslog	RBAC	ifies whether the connected user and.
	authentication	ntity of the person or device
TACACS+	accounting	d log information, and send the or billing, auditing, and reporting.
	authorization	orizing system access for users

Section: (none)
Explanation

Explanation/Reference:

QUESTION 67
View the Exhibit.

```
switch# show flogi database
```

INTERFACE	FCID	PORT NAME	NODE NAME
fc1/2	0x6101e1	21:00:00:04:cf:03:36:2f	20:00:00:04:cf:03:36:2f
fc1/2	0x6101e2	21:00:00:04:cf:03:38:6e	20:00:00:04:cf:03:38:6e
fc1/2	0x6101e4	21:00:00:04:cf:03:38:24	20:00:00:04:cf:03:38:24
fc1/2	0x6101e8	21:00:00:04:cf:03:38:4b	20:00:00:04:cf:03:38:4b

Total number of flogi = 4

Refer to the exhibit. Which description of the output is true?

- A. four WWNNs and four WWPNS
- B. one WWNN and four WWPNS
- C. one WWNN and one WWPNS
- D. four WWNNs and one WWPNS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 68

Which statement is true regarding FIP in FCoE enabled Storage Area Networks?

- A. It reduces the number of network interface cards required to connect to disparate storage and IP networks.
- B. It uses a dedicated EtherType of 0xFFFF.
- C. It reduces the number of tables and switches.
- D. It is used to perform device discovery, initialization, and link maintenance.

Correct Answer: D

Section: (none)

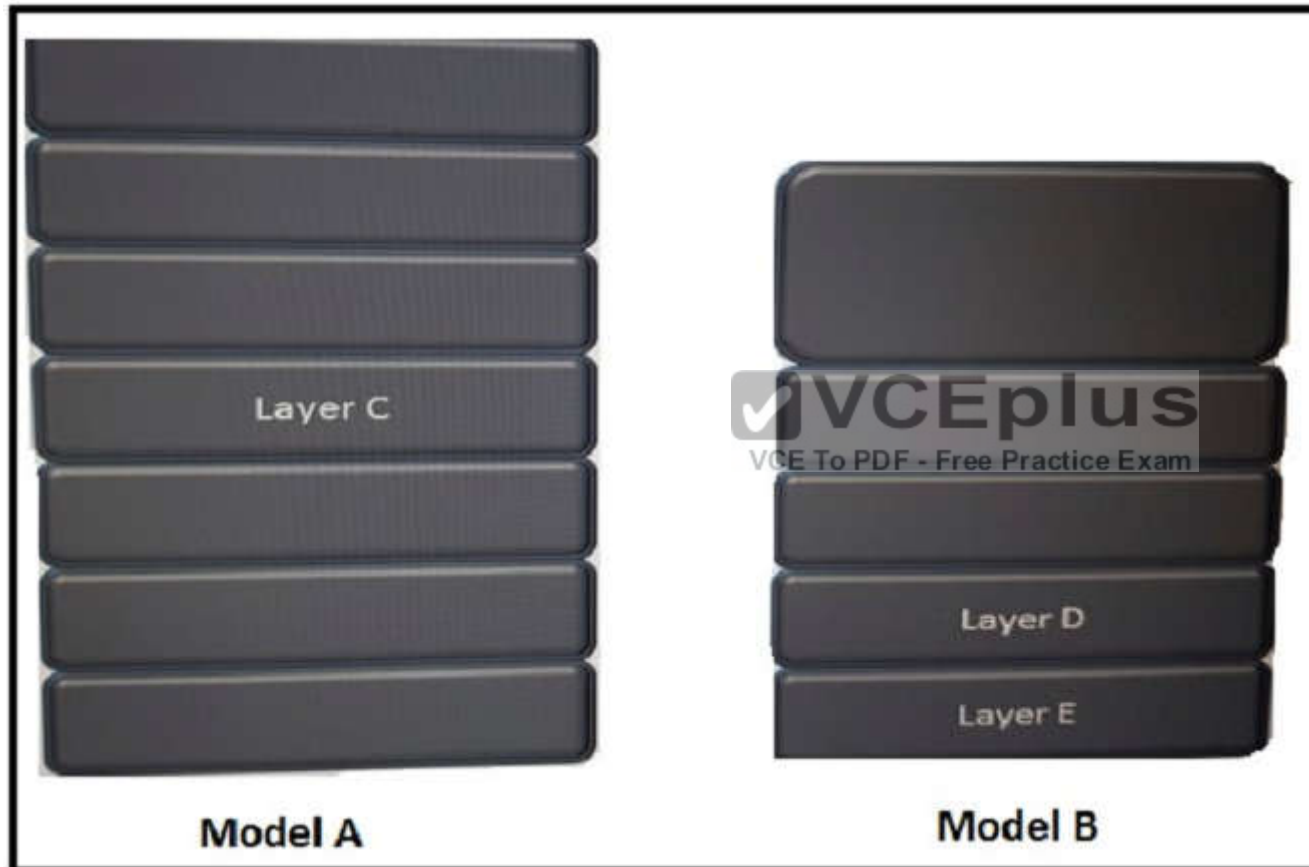
Explanation

Explanation/Reference:

Explanation:

QUESTION 69

View the Exhibit.



Refer to the exhibit. Regarding the OSI networking model and the updated TCP/IP networking model, which statement about this scenario is true?

- A. Model A is TCP/IP, Model B is OSI, Layer C is Transport, Layer D is Internet, and Layer E is Physical.
- B. Model A is OSI, Model B is TCP/IP, Layer C is Session, Layer D is Network, and Layer E is Physical.

- C. Model A is OSI, Model B is TCP/IP, Layer C is Transport, Layer D is Data Link, and Layer E is Physical.
- D. Model A is TCP/IP, Model B is OSI, Layer C is Transport, Layer D is Internet, and Layer E is Network Access.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 70

On a Cisco Nexus switch, you need to configure an ACL that permits HTTP traffic only from network 10.68.68.0/24 to network 10.68.69.0/24.

Which command should you use?

- A. switch(config)# ip access-list testswitch(config-acl)# permit tcp 10.68.68.0 255.255.255.0 10.68.69.0 255.255.255.0 any eq 80
- B. switch(config)# ip access-list testswitch(config-acl)# permit tcp 10.68.68.0/24 10.68.69.0/24 eq 80
- C. switch(config)# ip access-list testswitch(config-acl)# permit tcp 10.69.69.0.0.0.0.255 10.68.68.0.0.0.0.255 eq 80
- D. switch(config)# ip access-list testswitch(config-acl)# permit tcp 10.68.68.0/24 10.69.69.0/24 any eq 80switch(config-acl)# permit ip any any

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 71

Which protocol data unit is associated with the link layer of the TCP/IP model?

- A. packet
- B. frame
- C. segment
- D. datagram

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 72
DRAG DROP

Drag and drop the Ethernet UTP cable category on the left to the correct description on the right.

Select and Place:

Category 5	supports 10GBASE-T standards for bandwidths up to 10 Gbps over a maximum distance of 100 m
Category 5e	supports 10GBASE-T standards for bandwidths up to 10 Gbps over a maximum distance of 100 m, and supports 40 Gbps bandwidth for approximately 50 m and 100 Gbps bandwidth for approximately 15 m
Category 6	supports 10GBASE-T standards for bandwidths up to 10 Gbps over a maximum distance of 100 m, with better performance and improved crosstalk suppression
Category 6a	supports 10GBASE-T standards for bandwidths up to 10 Gbps over a maximum distance of 100 m
Category 7	supports 10GBASE-T standards for bandwidths up to 10 Gbps over a maximum distance of 100 m, and supports 10 Gbps up to 55 m
Category 7a	is used on networks running at speeds up to 1000 Mbps (1 Gbps)

Correct Answer:

	Category 6a
	Category 7a
	Category 7
	Category 5
	Category 6
	Category 5e

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

View the exhibit.

8 bytes	6 bytes	6 bytes	2 bytes	46-1500 bytes	4 bytes
Preamble	DA	SA	EtherType	Data	FCS

Refer to the exhibit. What type of network communication is depicted?

- A. IEEE 802.3 with LLC frame
- B. IEEE 802.3 with SNAP frame
- C. Ethernet II frame

D. TCP packet

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 74

Which communication type uses a one-to-many model to replicate packets that are delivered to many interested recipients?

- A. unknown unicast
- B. broadcast
- C. unicast
- D. multicast

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 75

Which two protocols are associated with the link layer of the TCP/IP reference model? (Choose two.)

- A. UDP
- B. LLDP
- C. STP
- D. IPsec
- E. HSRP

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 76

Which protocol is used to encapsulate Fibre Channel frames, enabling them to be transmitted over Ethernet networks?

- A. FCoE
- B. DCB
- C. SCSI
- D. Ethernet SAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 77

Which Fibre Channel interface port mode is used to connect multiple switches together?

- A. N port
- B. E port
- C. NL port
- D. F port



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 78

An administrator connected a new server to a Cisco MDS 9222i on port fc 1/5, but did not capture the world wide node of the host bus adapter.

Which command returns the needed information?

- A. show wwn status
- B. show hosts
- C. show flogi database

D. show interface fc 1/5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 79

Which two aspects are characteristic of Fibre Channel WWNS? (Choose two.)

- A. 64 or 128 bits long
- B. 96 bits long
- C. 48 bits long
- D. manually configured on each device by an administrator
- E. allocated to manufactures by IEEE

Correct Answer: AE

Section: (none)

Explanation



Explanation/Reference:

Explanation:

QUESTION 80

In HSRP, how do interfaces determine failure and assign standby and active routers?

- A. by using multicast UDP hello messages
- B. by using Cisco Discovery Protocol
- C. by exchanging BPDUs
- D. by using Spanning Tree Protocol

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 81

DRAG DROP

Drag and drop the port type from the left onto the correct description on the right.

Select and Place:

CMP	uses an RS-232 connection to access the device CLI either locally or via a terminal server
SVI	provides lights-out CLI console access to the supervisor module over an IP network by using SSHv2 or Telnet
console	provides out-of-band management by using Telnet or SSH
mgmt0	provides in-band management by using Telnet or SSH

Correct Answer:

	console
	CMP
	SVI
	mgmt0

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

What is the maximum working distance of a 1000BASE-ZX SFP transceiver when using ordinary single mode fiber?

- A. up to 10 kilometers
- B. up to 4 kilometers
- C. up to 70 kilometers
- D. up to 550 kilometers

Correct Answer: C

Section: (none)

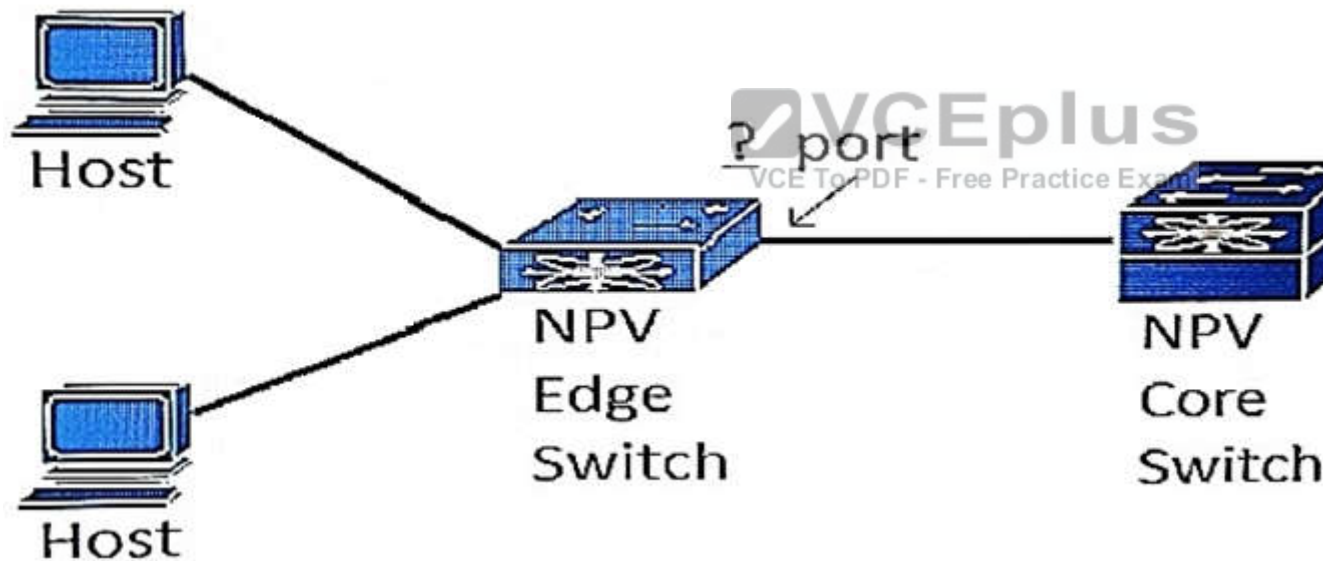
Explanation

Explanation/Reference:

Explanation:

QUESTION 83

View the Exhibit.



Refer to the exhibit. Which type of port is used to connect an edge switch in NPV mode to the core switch?

- A. E
- B. TE

- C. F
- D. NP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 84

DRAG DROP

Drag and drop the transceiver type on the left to the correct use on the right.

Select and Place:

LR SFP+	supports link lengths up to 5 meters
QSFP	connects a copper Gigabit Ethernet port on a server to a switch
SFP bidirectional	connects two devices using a single strand of fiber
SFP+ passive copper twinax	supports a link length of 10 kilometers using standard single-mode fiber
1000BASE-T SFP	connects two devices using 40 Gigabit Ethernet ports

Correct Answer:

	SFP+ passive copper twinax
	1000BASE-T SFP
	SFP bidirectional
	LR SFP+
	QSFP

Section: (none)
Explanation

Explanation/Reference:

QUESTION 85

How does a GLBP cluster respond to a host ARP request for the virtual IP address?

- A. The AVG responds by using one of the virtual MAC addresses.
- B. The highest priority AVF responds by using its own hardware MAC address.
- C. The least utilized router responds by using its own virtual MAC address.
- D. The AVG responds by using its own hardware MAC address.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:

QUESTION 86

Which two devices A customer wants to connect to their SAN via Fibre Channel.

can be used to provide connectivity? (Choose two.)

- A. Cisco Nexus 2248TP GE Fabric Extender
- B. Cisco MDS 9148 Multilayer Fabric Switch
- C. Cisco Nexus 7010 Switch
- D. Cisco Nexus 5548UP Switch
- E. Cisco Catalyst 6509 Switch

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 87

What happens when there is no entry in the Layer 2 CAM table that corresponds to the destination MAC address of an incoming frame?

- A. The frame is flooded out of all forwarding ports in all VLANs.
- B. The frame is flooded out of all forwarding ports in its VLAN, except the port on which it is received.
- C. The switch drops the frame.
- D. The frame is flooded out of all forwarding ports in its VLAN, including the port on which it is received.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 88

Which statement accurately describes the Single Initiator Single Target zone model?

- A. One initiator HBA card connects to one disk controller.

- B. One initiator HBA port connects to one disk controller.
- C. One initiator node connects to one SAN fabric.
- D. One initiator node connects to one SAN array.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 89

When using HSRP or VRRP, what are the two states of the router interfaces that are ready to take over forwarding for the link, if necessary? (Choose two.)

- A. backup
- B. floating
- C. standby
- D. master
- E. idle

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 90

When you enter the feature npv command on a storage-capable switch from Cisco, what is the result?

- A. N-Port Virtualization is enabled without rebooting.
- B. The switch reloads and erases the current configuration before it enables the feature N-Port ID Virtualization.
- C. The switch reloads and erases the current configuration before it enables the feature N-Port Virtualization.
- D. N-Port ID Virtualization is enabled without rebooting.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

