



640-875^{Q&As}

Building Cisco Service Provider Next-Generation Networks, Part 1

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QUESTION 1

Refer to the exhibit.



The link between RT1 and RT2 requires an authentication to be enabled using encrypted password. Which four Cisco IOS commands are necessary to be applied on RT1? (Choose four.)

- A. hostname RT1
- B. int s0/0 encap hdlc
- C. int s0/0 encap ppp
- D. int s0/0 ppp authentication pap
- E. int s0/0 ppp authentication chap
- F. ip domain-name test.com
- G. username RT2 password C!scol23
- H. username RT1 password C!scol23

Correct Answer: ACEG

QUESTION 2

Which subnet mask should be used in a point-to-point link in order to use IPv4 address block more efficiently?

- A. 209.165.201.0/32
- B. 209.165.201.0/31
- C. 209.165.201.0/30
- D. 209.165.201.0/29
- E. 209.165.201.0/24

Correct Answer: B



QUESTION 3

Which two architectures are part of the FTTx group of technologies? (Choose two.)

- A. Fiber-to-the-Building
- B. Fiber-to-the-Cabinet
- C. Fiber-to-the-Telecom-Enclosure
- D. Fiber-to-the-Home
- E. Fiber-to-the-Zone

Correct Answer: AD

QUESTION 4

Generally, which way is the fastest to open S3 and S4 service requests to the Cisco TAC?

- A. Use the Smart Call Home feature.
- B. Use the online TAC Service Request Tool.
- C. Call Cisco TAC on the phone.
- D. Email Cisco TAC with a high-priority email.
- E. Export the related Syslog/NetFlow information to TAC directly.

Correct Answer: B

QUESTION 5

Which three statements about Cisco IOS XR CLI operations are true? (Choose three.)

- A. Cisco IOS XR uses a three-stage configuration method.
- B. Committed changes are persistent across reboots in Cisco IOS XR.
- C. The commit replace global configuration command replaces the contents of the running configuration with the target configuration.
- D. The save global configuration command saves the contents of target configuration to the running configuration.
- E. There is no concept of a startup-config in Cisco IOS XR.
- F. The clear global configuration command erases the entire current running configuration.
- G. The show running-config global configuration command displays the configuration that occurs if the contents of the uncommitted changed (target configuration) are committed to the running configuration.

Correct Answer: BCE



QUESTION 6

Which Cisco IOS XR command displays information about statically configured routes and their corresponding interface or next-hop?

- A. show ipv4 interfaces brief
- B. show route connected
- C. show interfaces Loopback
- D. show route static
- E. show route ospf

Correct Answer: D

QUESTION 7

Which two statements about IPv4 DHCP operations are true? (Choose two.)

- A. If the DHCP clients and servers are on the same subnet, DHCP uses UDP broadcasts to communicate between the clients and servers.
- B. The DHCP server that receives a DHCPDISCOVER message may respond with a DHCPOFFER message on UDP port 67.
- C. A client can receive DHCPOFFER from multiple servers and it can accept all the offers by broadcasting the DHCPREQUEST message to all the servers.
- D. A DHCP relay is required if the DHCP clients and the servers are on the same subnet.
- E. If the client and server are on different subnets, DHCPDISCOVER and DHCPREQUEST messages are sent via UDP broadcasts, but DHCPOFFER and DHCPACK messages are unicast.
- F. The client broadcasts a DHCPDISCOVER message on UDP port 68 with its own MAC address to discover available DHCP servers.

Correct Answer: AE

QUESTION 8

Which command assigns an IP address to the Loopback1 interface on a Cisco IOS Router?

- A. ip address 192.168.41.111 255.255.255.240
- B. set ip 127.0.0.1/32
- C. ip address 127.0.0.1 255.255.255.0
- D. ip address 169.254.47.81 255.255.0.0



Correct Answer: D

QUESTION 9

Refer to the exhibit.

```
NTP Secondary configuration:


Interface loopback 0
IP address 209.165.200.226 255.255.255.224

NTP source loopback 0

NTP master 3

Current configuration on NTP clients

NTP server 209.165.200.227
```



A network administrator is setting up a new core router to be a secondary NTP server. What command would need to be added to NTP Client configuration shown?

- A. NTP server 209.165.200.227 preferNTP server 209.165.200.226
- B. NTP server 209.165.200.227NTP server 209.165.200.226 secondary
- C. NTP server 209.165.200.227 preferNTP server 209.165.200.226 backup
- D. NTP server 209.165.200.227NTP server 209.165.200.226 prefer

Correct Answer: A

QUESTION 10

If a severity 1 problem is unresolved in four hours, the problem is escalated to which person?

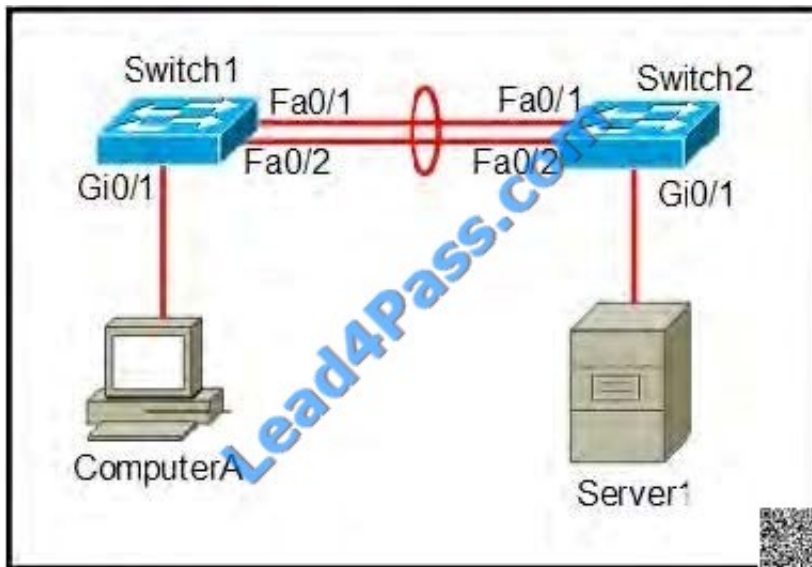
- A. the TAC director
- B. the TAC manager
- C. the TAC duty manager
- D. the Vice President of Technical Services

Correct Answer: A



QUESTION 11

Refer to the exhibit.



Both ComputerA and Server1 have gigabit interface cards. Switch1 and Switch2 are both Cisco Catalyst 2960 Series Switches. The EtherChannel link between the switches is fully operational. The switches use src-dst-mac load-balancing mode. What is the theoretical maximum bandwidth that is available for copying files from ComputerA to Server1 by using FTP?

- A. 1 Gbps
- B. 200 Mbps
- C. 100 Mbps
- D. 400 Mbps

Correct Answer: C

QUESTION 12

Which EIGRP feature in IOS, IOS-XE, and IOS-XR will prevent the EIGRP process from automatically forming a neighbor adjacency?

- A. Access-lists
- B. Link speed and duplex
- C. MTU Size
- D. Passive interface
- E. Bandwidth and delay

Correct Answer: D



QUESTION 13

When two or more different routes exist to the same destination that have been learned from two different routing protocols, what does a router use to determine the best route?

- A. Routing protocol metric
- B. Administrative distance
- C. Hop count
- D. Path cost
- E. Local preference

Correct Answer: B

QUESTION 14

Which Cisco IOS XR CLI command displays the running state of each line card (including the fan tray) on the Cisco ASR 9000 Series Router?

- A. RP/0/RSP0/CPU0:PE1#show platform
- B. RP/0/RSP0/CPU0:PE1(admin)#show platform
- C. RP/0/RSP0/CPU0:PE1#show hw-module fpd location all
- D. RP/0/RSP0/CPU0:PE1(admin)#show hw-module fpd location all
- E. RP/0/RSP0/CPU0:PE1#show version
- F. RP/0/RSP0/CPU0:PE1(admin)#show version

Correct Answer: B

QUESTION 15

Refer to the exhibit.



```
Router>enable
Router#configure terminal
Router(config)#hostname R1
R1(config)#username R2 password cisco
R1(config)#interface serial 0/0/0
R1(config-if)#encapsulation ppp
R1(config-if)#ppp authentication chap
R1(config-if)#exit

Router>enable
Router#configure terminal
Router(config)#hostname R2
R2(config)#username R1 password cisco
R2(config)#interface serial 0/0/0
R2(config-if)#encapsulation ppp
R2(config-if)#ppp authentication pap
R2(config-if)#exit
```



Based on the configurations shown, why is the serial link in up/down status?

- A. Mismatch hostnames
- B. Passwords are in plain text
- C. Mismatch of authentication type
- D. Wrong configuration mode for command input


Correct Answer: C

QUESTION 16

Refer to the exhibit.



```
enable secret SecretPa$$word
enable password Enable
!
aaa new-model
!
aaa authentication login default enable
aaa authentication login console local
!
username admin password ThisIsVerySecretPassword
!
line console 0
  password Cisc0
!
end
```



To log in successfully to the console port, what information should you enter?

- A. SecretPa\$\$word
- B. Enable
- C. admin for the username and ThisIsVerySecretPassword for the password
- D. Cisc0

Correct Answer: A

QUESTION 17

What is the Cisco IOS command to export IPv6 flows to Collector 209.165.200.200/24?

- A. Switch(config)#ipv6 flow-export destination 209.165.200.200 9996
- B. Switch(config)#ip flow-export destination 209.165.200.200 9996
- C. Switch(config)#ip flow-export destination 209.165.200.200 255.255.255.0
- D. Switch(config)#ip flow-export destination fe08::0ABC:1 9996

Correct Answer: A

QUESTION 18

Given the IP address of 209.168.200.155/27, which two options are the subnet that this IP address belongs to and the subnet broadcast IP address? (Choose two.)

- A. 209.168.200.64 255.255.255.224
- B. 209.168.200.96 255.255.255.224



C. 209.168.200.128 255.255.255.224

D. 209.168.200.95

E. 209.168.200.127

F. 209.168.200.159

Correct Answer: CF

QUESTION 19

You have a LAN that has three computers. The computers are connected by a switch. The computers are in the 192.168.1.0/24 network. Which network device enables you to connect the LAN to the Internet?

A. a switch

B. a hub

C. a router

D. a DSL modem in bridge mode

Correct Answer: C

QUESTION 20

Refer to the exhibit.

```
tacacs-server host 192.168.1.2
key tacacskey
!
tacacs source-interface gigabitEthernet0/1/
```

Which two statements are true regarding the following configuration?

A. Users are authenticated using RADIUS.

B. TACACS+ is configured for remote AAA.

C. A TACACS+ AAA server group is configured.

D. A TACACS+ server can be reached through the GigabitEthernet0/1/0/1 interface.

E. Logging is configured to the local database.

Correct Answer: BD

QUESTION 21



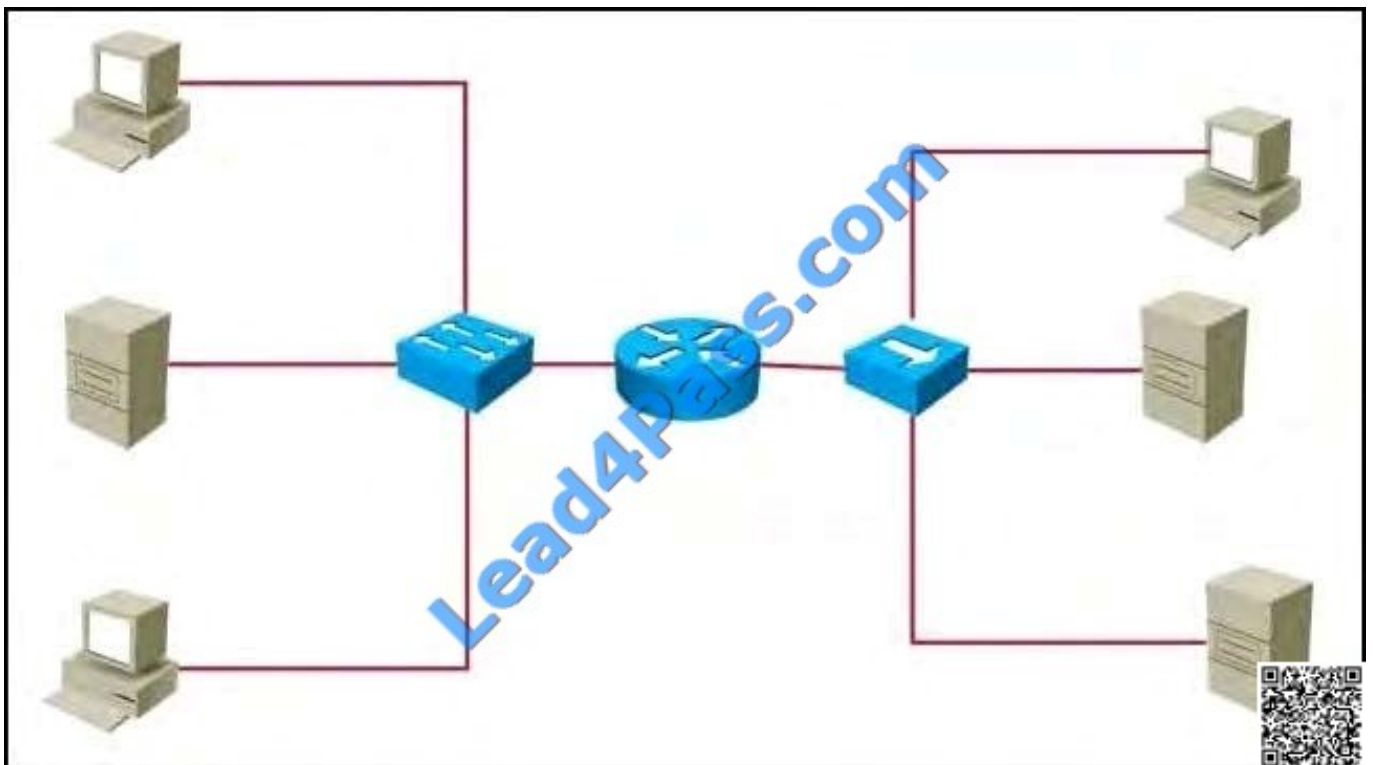
Which two statements are correct regarding routing protocol authentication? (Choose two.)

- A. MD5 authentication can only be established between Internal BGP peers.
- B. Authentication can be established using keychains on one peer and MD5 hashing on the other.
- C. UDP port 179 is used for BGP session authentication.
- D. MD5 passwords are never sent to a peer.
- E. Routers authenticate each routing update packet received.
- F. BGP peers can be configured with different passwords.

Correct Answer: DE

QUESTION 22

Refer to the exhibit.



Which two options are the number of broadcast domains and collision domains shown in the exhibit? (Choose two.)

- A. 2 collision domains
- B. 4 collision domains
- C. 5 collision domains
- D. 8 collision domains



- E. 2 broadcast domains
- F. 4 broadcast domains
- G. 5 broadcast domains
- H. 8 broadcast domains

Correct Answer: CE

QUESTION 23

Which Cisco IOS XR command presents a list of all interfaces, their Layer 3 address (if configured), and the status of the interface and protocol?

- A. RP/0/RSP0/CPU0:PE1# show interface GigabitEthernet 0/0/0/1
- B. RP/0/RSP0/CPU0:PE1# show controllers
- C. RP/0/RSP0/CPU0:PE1(admin)# show hw-module fpd location all
- D. RP/0/RSP0/CPU0:PE1(config)# show bundle
- E. RP/0/RSP0/CPU0:PE1(admin)# show platform
- F. RP/0/RSP0/CPU0:PE1# show ipv4 interfaces brief

Correct Answer: F

QUESTION 24

Refer to the exhibit.

```
ip dhcp excluded-address 192.168.9.0 192.168.10.100
ip dhcp excluded-address 192.168.10.200 192.168.10.255
!
ip dhcp pool LAN
 network 192.168.10.0 255.255.255.0
 default-router 192.168.10.1
 dns-server 192.168.10.5
!
```

How many IP addresses does Router1 have that are available for DHCP clients?

- A. 100
- B. 99



C. 254

D. 199

Correct Answer: B

QUESTION 25

Which three statements about Cisco Discovery Protocol operations on a Cisco ME3400 switch are true? (Choose three.)

- A. Cisco Discovery Protocol is enabled by default on NNI ports.
- B. Cisco Discovery Protocol is enabled by default on all NNI, ENI, and UNI ports.
- C. Cisco Discovery Protocol is disabled by default on ENI ports.
- D. Cisco Discovery Protocol is not supported on NNI or ENI ports.
- E. Cisco Discovery Protocol is not supported on UNI ports.

Correct Answer: ACE

QUESTION 26

On Cisco IOS Switches, which port security violation mode results in frames from non-allowed MAC address being dropped, log message created, and SNMP trap sent?

- A. Protect
- B. Restrict
- C. Shutdown
- D. Err-disabled
- E. Log

Correct Answer: B

QUESTION 27

Which Cisco IOS CLI command is used to verify the speed and duplex settings on the Fa0/1 port on a Cisco switch?

- A. show ip interfaces fa0/1
- B. show interfaces fa0/1
- C. show interfaces fa0/1 switchport
- D. show ip interfaces brief



E. show interfaces switchport

Correct Answer: B

QUESTION 28

Which are the two benefits of the star network topology over the bus network topology? (Choose two.)

- A. Disruption of the entire network is not required when adding new machines.
- B. Any problem which leaves the network inoperable can be traced to the central hub.
- C. This network type requires less cable as compared to linear bus topology.
- D. The performance of one of the numerous nodes cannot reflect on the performance of other nodes.
- E. The performance of the entire network is directly dependent on the performance of the hub.

Correct Answer: AB

QUESTION 29

Which statement about SSH is true?

- A. It is a TCP/IP transport layer protocol.
- B. It uses TCP port number 22.
- C. It securely encrypts Telnet.
- D. It uses UDP port 23.
- E. Passwords are sent in clear text.
- F. It is an OSI network layer protocol.

Correct Answer: B

QUESTION 30

Which three statements about the Cisco IOS XR task-based user authorization method are true? (Choose three.)

- A. A user's association with a particular user group links that user to a particular set of task IDs. A user that is associated with a task ID can execute any operation associated with that task ID.
- B. Users can be assigned only to one user group.
- C. Every user group is associated with one or more task groups.
- D. Every task group is defined by a set of task IDs.



E. Each user is assigned a privilege level.

F. Each IOS XR CLI command is assigned a privilege level.

G. A task ID maps the IOS XR command to a privilege level.

Correct Answer: ACD

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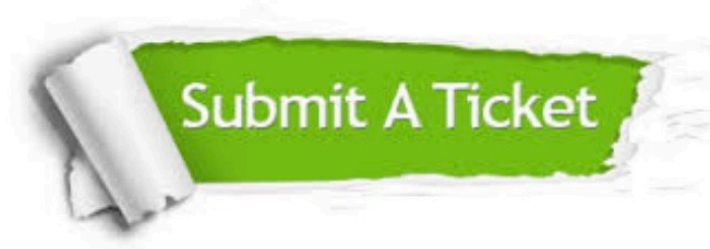
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