

# Exam Questions 200-301

Cisco Certified Network Associate

<https://www.2passeasy.com/dumps/200-301/>



#### NEW QUESTION 1

What are two benefits of network automation? (Choose two)

- A. reduced operational costs
- B. reduced hardware footprint
- C. faster changes with more reliable results
- D. fewer network failures
- E. increased network security

**Answer:** AC

#### NEW QUESTION 2

Which command enables a router to become a DHCP client?

- A. ip address dhcp
- B. ip helper-address
- C. ip dhcp pool
- D. ip dhcp client

**Answer:** A

#### NEW QUESTION 3

Which design element is a best practice when deploying an 802.11b wireless infrastructure?

- A. disabling TPC so that access points can negotiate signal levels with their attached wireless devices.
- B. setting the maximum data rate to 54 Mbps on the Cisco Wireless LAN Controller
- C. allocating nonoverlapping channels to access points that are in close physical proximity to one another
- D. configuring access points to provide clients with a maximum of 5 Mbps

**Answer:** C

#### NEW QUESTION 4

Which option about JSON is true?

- A. uses predefined tags or angle brackets ( ) to delimit markup text
- B. used to describe structured data that includes arrays
- C. used for storing information
- D. similar to HTML, it is more verbose than XML

**Answer:** B

#### NEW QUESTION 5

Which IPv6 address type provides communication between subnets and cannot route on the Internet?

- A. global unicast
- B. unique local
- C. link-local
- D. multicast

**Answer:** B

#### NEW QUESTION 6

Which command prevents passwords from being stored in the configuration as plain text on a router or switch?

- A. enable secret
- B. service password-encryption
- C. username Cisco password encrypt
- D. enable password

**Answer:** B

#### NEW QUESTION 7

What are two southbound APIs? (Choose two )

- A. OpenFlow
- B. NETCONF
- C. Thrift
- D. CORBA
- E. DSC

**Answer:** CD

#### NEW QUESTION 8

Which type of wireless encryption is used for WPA2 in preshared key mode?

- A. TKIP with RC4
- B. RC4
- C. AES-128
- D. AES-256

**Answer:** D

#### NEW QUESTION 9

Which two must be met before SSH can operate normally on a Cisco IOS switch? (Choose two)

- A. The switch must be running a k9 (crypto) IOS image
- B. The Ip domain-name command must be configured on the switch
- C. IP routing must be enabled on the switch
- D. A console password must be configured on the switch
- E. Telnet must be disabled on the switch

**Answer:** BC

#### NEW QUESTION 10

in Which way does a spine and-leaf architecture allow for scalability in a network when additional access ports are required?

- A. A spine switch and a leaf switch can be added with redundant connections between them
- B. A spine switch can be added with at least 40 GB uplinks
- C. A leaf switch can be added with a single connection to a core spine switch.
- D. A leaf switch can be added with connections to every spine switch

**Answer:** D

#### NEW QUESTION 10

A network engineer must back up 20 network router configurations globally within a customer environment. Which protocol allows the engineer to perform this function using the Cisco IOS MIB?

- A. CDP
- B. SNMP
- C. SMTP
- D. ARP

**Answer:** C

#### NEW QUESTION 13

How do TCP and UDP differ in the way that they establish a connection between two endpoints?

- A. TCP uses synchronization packets, and UDP uses acknowledgment packets.
- B. UDP uses SYN, SYN ACK and FIN bits in the frame header while TCP uses SYN, SYN ACK and ACK bits
- C. UDP provides reliable message transfer and TCP is a connectionless protocol
- D. TCP uses the three-way handshake and UDP does not guarantee message delivery

**Answer:** D

#### NEW QUESTION 15

When OSPF learns multiple paths to a network, how does it select a route?

- A. It multiple the active K value by 256 to calculate the route with the lowest metric.
- B. For each existing interface, it adds the metric from the source router to the destination to calculate the route with the lowest bandwidth.
- C. It divides a reference bandwidth of 100 Mbps by the actual bandwidth of the existing interface to calculate the router with the lowest cost.
- D. It count the number of hops between the source router and the destination to determine the router with the lowest metric

**Answer:** A

#### NEW QUESTION 17

Which configuration is needed to generate an RSA key for SSH on a router?

- A. Configure the version of SSH
- B. Configure VTY access.
- C. Create a user with a password.
- D. Assign a DNS domain name

**Answer:** B

#### NEW QUESTION 21

Drag and drop the threat-mitigation techniques from the left onto the types of threat or attack they mitigate on the right. check the answer below.

Configure VACL.

Configure dynamic ARP inspection.

Configure BPDU guard.

Configure root guard.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Configure VACL.

Configure dynamic ARP inspection.

Configure BPDU guard.

Configure root guard.

#### NEW QUESTION 23

An engineer must configure a /30 subnet between two routers. Which usable IP address and subnet mask combination meets this criteria?

```
interface e0/0
description to HQ-A371:10975
ip address 172.16.1.4 255.255.255.248
```

```
interface e0/0
description to HQ-A371:10975
ip address 10.2.1.3 255.255.255.252
```

```
interface e0/0
description to HQ-A371:10975
ip address 192.168.1.1 255.255.255.248
```

```
interface e0/0
description to HQ-A371:10975
ip address 209.165.201.2 255.255.255.252
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### NEW QUESTION 24

What is a benefit of using a Cisco Wireless LAN Controller?

- A. Central AP management requires more complex configurations
- B. Unique SSIDs cannot use the same authentication method
- C. It supports autonomous and lightweight APs
- D. It eliminates the need to configure each access point individually

**Answer:** D

**NEW QUESTION 27**

Which attribute does a router use to select the best path when two or more different routes to the same destination exist from two different routing protocols.

- A. dual algorithm
- B. metric
- C. administrative distance
- D. hop count

**Answer: D**

**NEW QUESTION 29**

Which two encoding methods are supported by REST APIs? (Choose two)

- A. YAML
- B. JSON
- C. EBCDIC
- D. SGML
- E. XML

**Answer: AE**

**NEW QUESTION 33**

Refer to the exhibit.

```
ip arp inspection vlan 5-10
interface fastethernet 0/1
 switchport mode access
 switchport access vlan 5
```

What is the effect of this configuration?

- A. All ARP packets are dropped by the switch
- B. Egress traffic is passed only if the destination is a DHCP server.
- C. All ingress and egress traffic is dropped because the interface is untrusted
- D. The switch discard all ingress ARP traffic with invalid MAC-to-IP address bindings.

**Answer: D**

**NEW QUESTION 34**

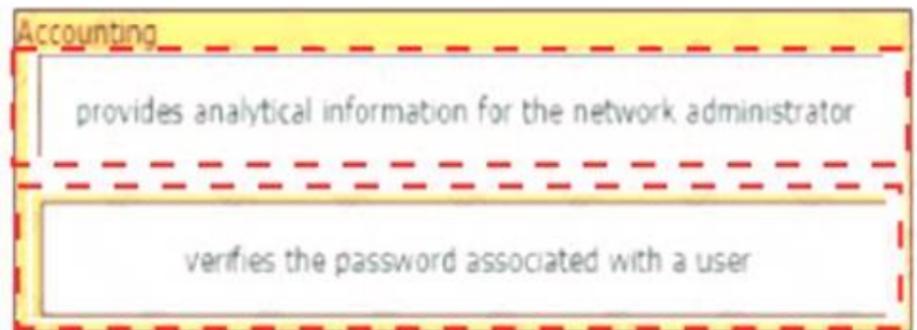
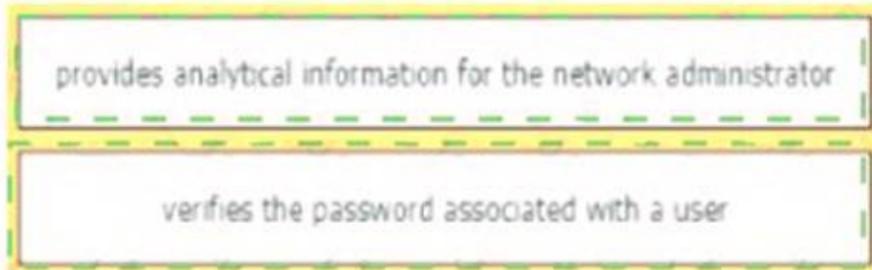
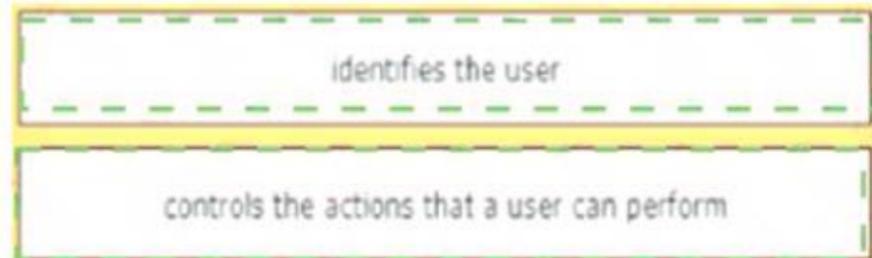
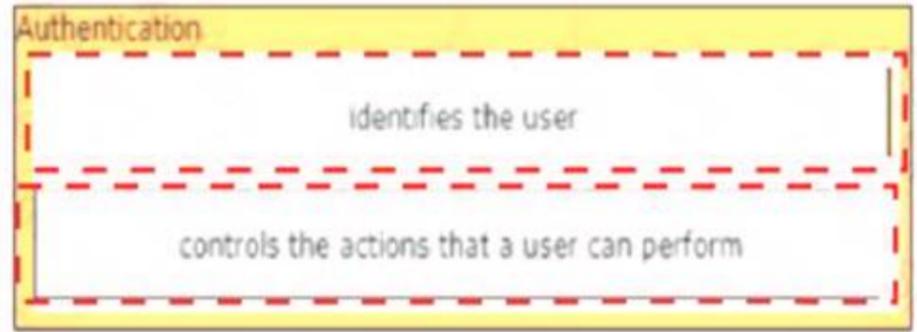
Drag and drop the AAA functions from the left onto the correct AAA services on the right

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">records user activities</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">restricts the services that are available to a user</div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;">Authentication</div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">identifies the user</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">controls the actions that a user can perform</div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;">Authorization</div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">provides analytical information for the network administrator</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;">verifies the password associated with a user</div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;">Accounting</div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



**NEW QUESTION 39**

Which two values or settings must be entered when configuring a new WLAN in the Cisco Wireless LAN Controller GUI? (Choose two)

- A. management interface settings
- B. QoS settings
- C. Ip address of one or more access points
- D. SSID
- E. Profile name

Answer: DE

**NEW QUESTION 44**

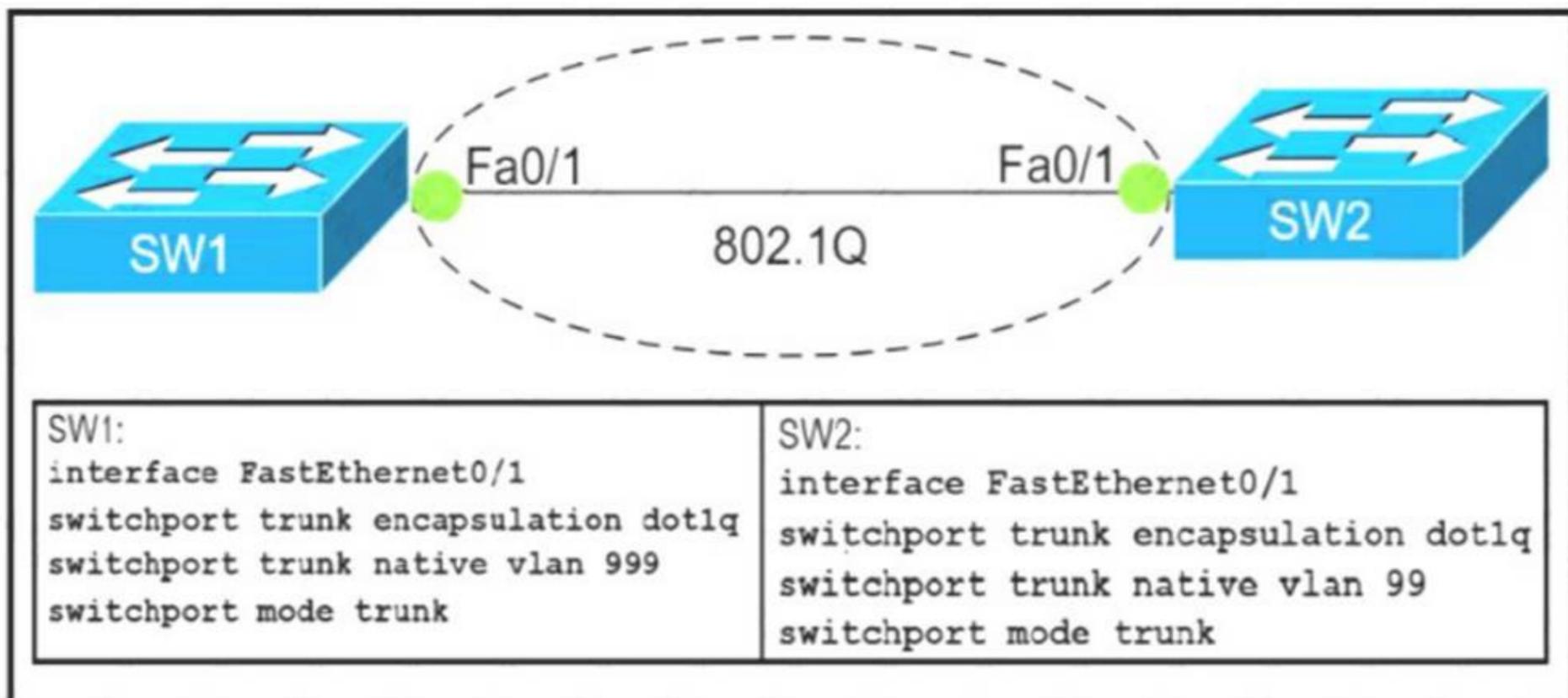
Which two actions influence the EIGRP route selection process? (Choose two)

- A. The router calculates the reported distance by multiplying the delay on the exiting Interface by 256.
- B. The router calculates the best backup path to the destination route and assigns it as the feasible successor.
- C. The router calculates the feasible distance of all paths to the destination route
- D. The advertised distance is calculated by a downstream neighbor to inform the local router of the bandwidth on the link
- E. The router must use the advertised distance as the metric for any given route

Answer: AD

**NEW QUESTION 45**

Refer to Exhibit.



Which action do the switches take on the trunk link?

- A. The trunk does not form and the ports go into an err-disabled status.
- B. The trunk forms but the mismatched native VLANs are merged into a single broadcast domain.
- C. The trunk does not form, but VLAN 99 and VLAN 999 are allowed to traverse the link.
- D. The trunk forms but VLAN 99 and VLAN 999 are in a shutdown state.

Answer: C

**NEW QUESTION 46**

Which command is used to specify the delay time in seconds for LLDP to initialize on any interface?

- A. lldp timer
- B. lldp holdtime
- C. lldp reinit
- D. lldp tlv-select

Answer: D

**NEW QUESTION 50**

An engineer is asked to protect unused ports that are configured in the default VLAN on a switch. Which two steps will fulfill the request? (Choose two)

- A. Configure the ports in an EtherChannel.
- B. Administratively shut down the ports
- C. Configure the port type as access and place in VLAN 99
- D. Configure the ports as trunk ports
- E. Enable the Cisco Discovery Protocol

Answer: AD

**NEW QUESTION 51**

Refer to the exhibit.

```

SW1#sh lacp neighbor
Flags: S - Device is requesting Slow LACPDUs
      F - Device is requesting Fast LACPDUs
      A - Device is in Active mode      P - Device is in Passive mode

Channel group 35 neighbors

Partner's information:

      LACP port
Port   Flags  Priority  Dev ID          Age   Admin  Oper  Port  Port
Et1/0  SP     32768    aabb.cc80.7000  8s   0x0    0x23  0x101 0x3C
Et1/1  SP     32768    aabb.cc80.7000  8s   0x0    0x23  0x102 0x3C
    
```

Based on the LACP neighbor status, in which mode is the SW1 port channel configured?

- A. passive
- B. mode on
- C. auto
- D. active

**Answer:** A

**NEW QUESTION 52**

An organization has decided to start using cloud-provided services. Which cloud service allows the organization to install its own operating system on a virtual machine?

- A. platform-as-a-service
- B. software-as-a-service
- C. network-as-a-service
- D. infrastructure-as-a-service

**Answer:** D

**NEW QUESTION 53**

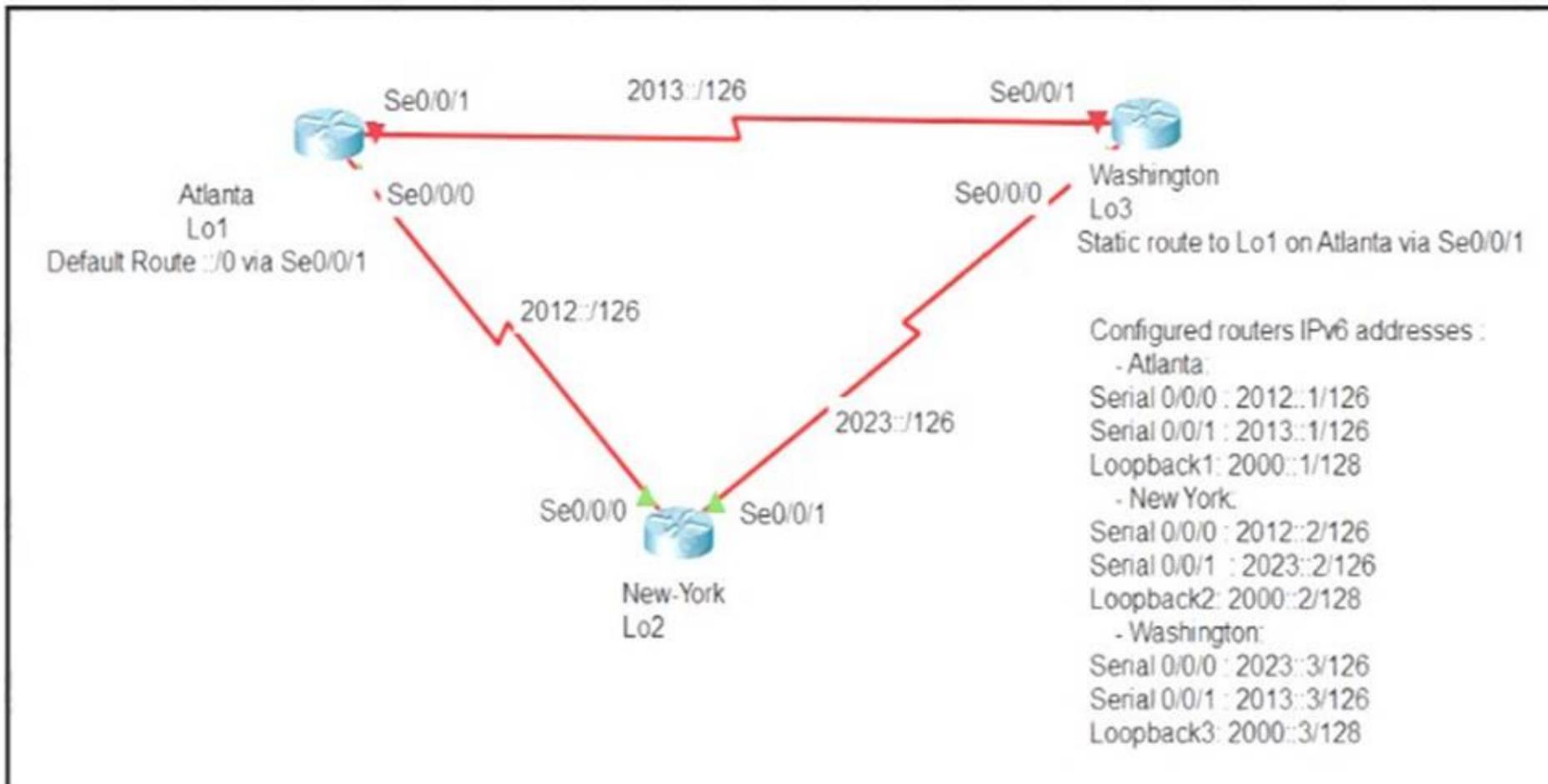
Which mode allows access points to be managed by Cisco Wireless LAN Controllers?

- A. autonomous
- B. lightweight
- C. bridge
- D. mobility express

**Answer:** B

**NEW QUESTION 56**

Refer to Exhibit.



An engineer is configuring the NEW York router to reach the Lo1 interface of the Atlanta router using interface Se0/0/0 as the primary path. Which two commands must be configured on the New York router so that it can reach the Lo1 interface of the Atlanta router via Washington when the link between New York and Atlanta goes down? (Choose two)

- A. ipv6 router 2000::1/128 2012::1
- B. ipv6 router 2000::1/128 2012::1 5
- C. ipv6 router 2000::1/128 2012::2
- D. ipv6 router 2000::1/128 2023::2 5
- E. ipv6 router 2000::1/128 2023::3 5

Answer: DE

**NEW QUESTION 57**

Refer to the exhibit.

**Router#**  
**Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge**  
**S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone,**  
**D - Remote, C - CVTA, M - Two-port Mac Relay**

Device ID	Local Infrfce	Holdtme	Capability	Platform	Port ID
10.1.1.2	Gig 37/3	176	R I	CPT 600	Gig 36/41
10.1.1.2	Gig 37/1	174	R I	CPT 600	Gig 36/43
10.1.1.2	Gig 36/41	134	R I	CPT 600	Gig 37/3
10.1.1.2	Gig 36/43	134	R I	CPT 600	Gig 37/1
10.1.1.2	Ten 3/2	132	R I	CPT 600	Ten 4/2
10.1.1.2	Ten 4/2	174	R I	CPT 600	Ten 3/2

Which command provides this output?

- A. show ip route
- B. show ip interface
- C. show interface
- D. show cdp neighbor

Answer: D

**NEW QUESTION 58**

Drag and drop the IPv4 network subnets from the left onto the correct usable host ranges on the right

172.28.228.144/18	172.28.228.1 - 172.28.229.254
172.28.228.144/21	172.28.224.1 - 172.28.231.254
172.28.228.144/23	172.28.228.129 - 172.28.228.254
172.28.228.144/25	172.28.228.145 - 172.28.228.150
172.28.228.144/29	172.28.192.1 - 172.28.255.254

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

172.28.228.144/18	172.28.228.144/21
172.28.228.144/21	172.28.228.144/29
172.28.228.144/23	172.28.228.144/23
172.28.228.144/25	172.28.228.144/25
172.28.228.144/29	172.28.228.144/18

**NEW QUESTION 63**

Which two outcomes are predictable behaviors for HSRP? (Choose two)

- A. The two routers share a virtual IP address that is used as the default gateway for devices on the LAN.
- B. The two routers negotiate one router as the active router and the other as the standby router
- C. Each router has a different IP address both routers act as the default gateway on the LAN, and traffic is load balanced between them.
- D. The two routers synchronize configurations to provide consistent packet forwarding
- D. The two routers share the same IP address, and default gateway traffic is load-balanced between them

**Answer:** AB

**NEW QUESTION 68**

Which action is taken by a switch port enabled for PoE power classification override?

- A. When a powered device begins drawing power from a PoE switch port a syslog message is generated
- B. As power usage on a PoE switch port is checked data flow to the connected device is temporarily paused
- C. If a switch determines that a device is using less than the minimum configured power it assumes the device has failed and disconnects
- D. If a monitored port exceeds the maximum administrative value for power, the port is shutdown and err-disabled

**Answer:** C

**NEW QUESTION 73**

Which two tasks must be performed to configure NTP to a trusted server in client mode on a single network device? (Choose two)

- A. Enable NTP authentication.
- B. Verify the time zone.
- C. Disable NTP broadcasts
- D. Specify the IP address of the NTP server
- E. Set the NTP server private key

**Answer:** DE

**NEW QUESTION 74**

When a floating static route is configured, which action ensures that the backup route is used when the primary route fails?

- A. The floating static route must have a higher administrative distance than the primary route so it is used as a backup
- B. The administrative distance must be higher on the primary route so that the backup route becomes secondary.
- C. The floating static route must have a lower administrative distance than the primary route so it is used as a backup
- D. The default-information originate command must be configured for the route to be installed into the routing table

**Answer:** A

**NEW QUESTION 76**

Drag and drop the descriptions of file-transfer protocols from the left onto the correct protocols on the right.

provides reliability when loading an IOS image upon boot up
does not require user authentication
uses port 69
uses ports 20 and 21
uses TCP
uses UDP

<b>FTP</b>
<b>TFTP</b>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

provides reliability when loading an IOS image upon boot up

does not require user authentication

uses port 69

uses ports 20 and 21

uses TCP

uses UDP

FTP

provides reliability when loading an IOS image upon boot up

uses ports 20 and 21

uses TCP

TFTP

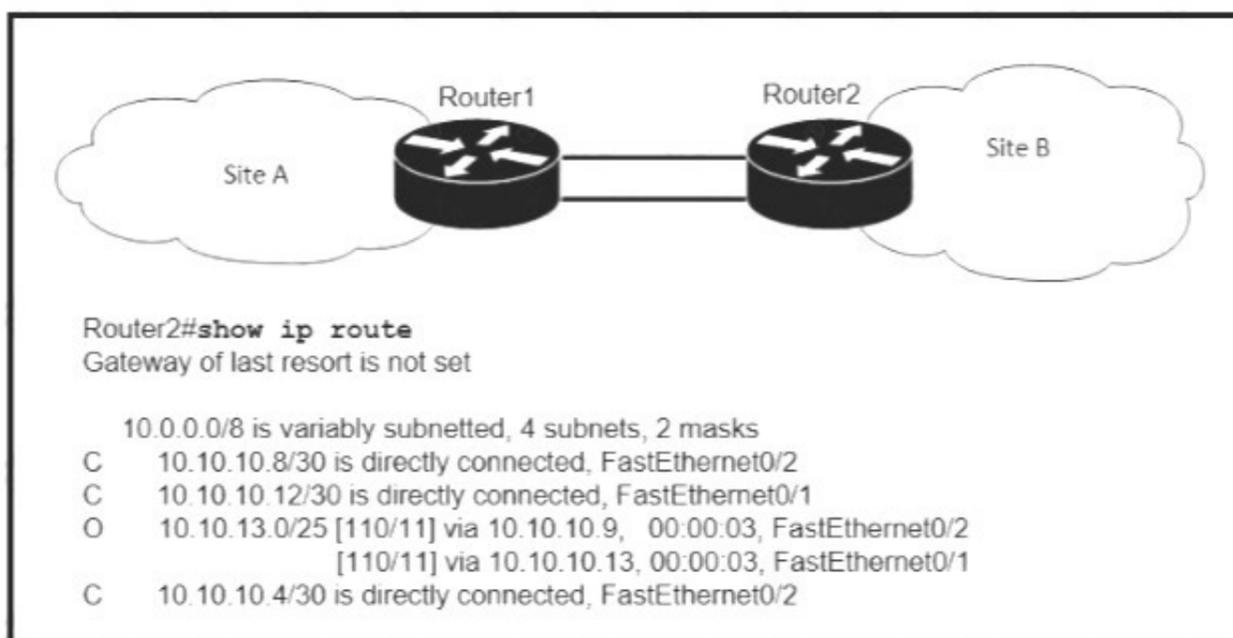
does not require user authentication

uses port 69

uses UDP

**NEW QUESTION 79**

Refer to the exhibit.



If OSPF is running on this network, how does Router 2 handle traffic from Site B to 10.10.13/25 at Site A?

- A. It sends packets out of interface Fa0/2 only.
- B. It sends packets out of interface Fa0/1 only.
- C. It cannot send packets to 10.10.13 128/25
- D. It load-balances traffic out of Fa0/1 and Fa0/2

**Answer: D**

**NEW QUESTION 81**

Which mode must be used to configure EtherChannel between two switches without using a negotiation protocol?

- A. on
- B. auto
- C. active
- D. desirable

**Answer: D**

**NEW QUESTION 83**

Which statement correctly compares traditional networks and controller-based networks?

- A. Only traditional networks offer a centralized control plane
- B. Only traditional networks natively support centralized management
- C. Traditional and controller-based networks abstract policies from device configurations
- D. Only controller-based networks decouple the control plane and the data plane

**Answer:**

C

**NEW QUESTION 88**

If a notice-level messaging is sent to a syslog server, which event has occurred?

- A. A network device has restarted
- B. An ARP inspection has failed
- C. A routing instance has flapped
- D. A debug operation is running

Answer: A

**NEW QUESTION 89**

Refer to the exhibit.

```
R1# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
   is directly connected, Serial0/1/0
   172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S   172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O   172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23, Serial0/0/1
D   172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
   209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C   209.165.200.248/30 is directly connected, Serial0/0/0
L   209.165.200.249/32 is directly connected, Serial0/0/0
C   209.165.200.252/30 is directly connected, Serial0/0/1
L   209.165.200.253/32 is directly connected, Serial0/0/1
```

With which metric was the route to host 172.16.0.202 learned?

- A. 110
- B. 38443
- C. 3184439

Answer: C

**NEW QUESTION 93**

Refer to the exhibit.

```
Gateway of last resort is 10.12.0.1 to network 0.0.0.0

O*E2  0.0.0.0/0 [110/1] via 10.12.0.1, 00:00:01, GigabitEthernet0/0
      10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C      10.0.0.0/24 is directly connected, GigabitEthernet0/0
L      10.0.0.2/32 is directly connected, GigabitEthernet0/0
C      10.13.0.0/24 is directly connected, GigabitEthernet0/1
L      10.13.0.2/32 is directly connected, GigabitEthernet0/1
```

If configuring a static default route on the router with the ip route 0.0.0.0 0.0.0.0 10.13.0.1 120 command how does the router respond?

- A. It ignores the new static route until the existing OSPF default route is removed
- B. It immediately replaces the existing OSPF route in the routing table with the newly configured static route
- C. It starts load-balancing traffic between the two default routes
- D. It starts sending traffic without a specific matching entry in the routing table to GigabitEthernet0/1

Answer: D

**NEW QUESTION 96**

An engineer must configure a WLAN using the strongest encryption type for WPA2- PSK. Which cipher fulfills the configuration requirement?

- A. WEP
- B. RC4
- C. AES
- D. TKIP

Answer: D

**NEW QUESTION 99**

When configuring a WLAN with WPA2 PSK in the Cisco Wireless LAN Controller GUI, which two formats are available to select? (Choose two)

- A. ASCII
- B. base64
- C. binary
- D. decimal
- E. hexadecimal

Answer: AE

**NEW QUESTION 103**

Drag and drop the functions from the left onto the correct network components on the right

- holds the TCP/IP settings to be distributed to the clients
- resolves web URLs to IP addresses
- stores a list of IP addresses mapped to names
- assigns a default gateway to a client
- assigns IP addresses to enabled clients

**DHCP Server**

**DNS Server**

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- holds the TCP/IP settings to be distributed to the clients
- resolves web URLs to IP addresses
- stores a list of IP addresses mapped to names
- assigns a default gateway to a client
- assigns IP addresses to enabled clients

**DHCP Server**

- holds the TCP/IP settings to be distributed to the clients
- resolves web URLs to IP addresses
- assigns IP addresses to enabled clients

**DNS Server**

- stores a list of IP addresses mapped to names
- assigns a default gateway to a client

**NEW QUESTION 105**

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