

# Exam Questions 200-301

Cisco Certified Network Associate

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**NEW QUESTION 1**

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 2**

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 3**

Which set of action satisfy the requirement for multifactor authentication?

- A. The user swipes a key fob, then clicks through an email link
- B. The user enters a user name and password, and then clicks a notification in an authentication app on a mobile device
- C. The user enters a PIN into an RSA token, and then enters the displayed RSA key on a login screen
- D. The user enters a user name and password and then re-enters the credentials on a second screen

**Answer: A**

**NEW QUESTION 4**

Which two capacities of Cisco DNA Center make it more extensible? (Choose two)

- A. adapters that support all families of Cisco IOS software
- B. SDKs that support interaction with third-party network equipment
- C. customized versions for small, medium, and large enterprises
- D. REST APIs that allow for external applications to interact natively with Cisco DNA Center
- E. modular design that is upgradable as needed

**Answer: BD**

**NEW QUESTION 5**

netmask	must be unique
OSPF process ID	
router ID	must match
IP address	
area ID	
timers	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



**NEW QUESTION 6**

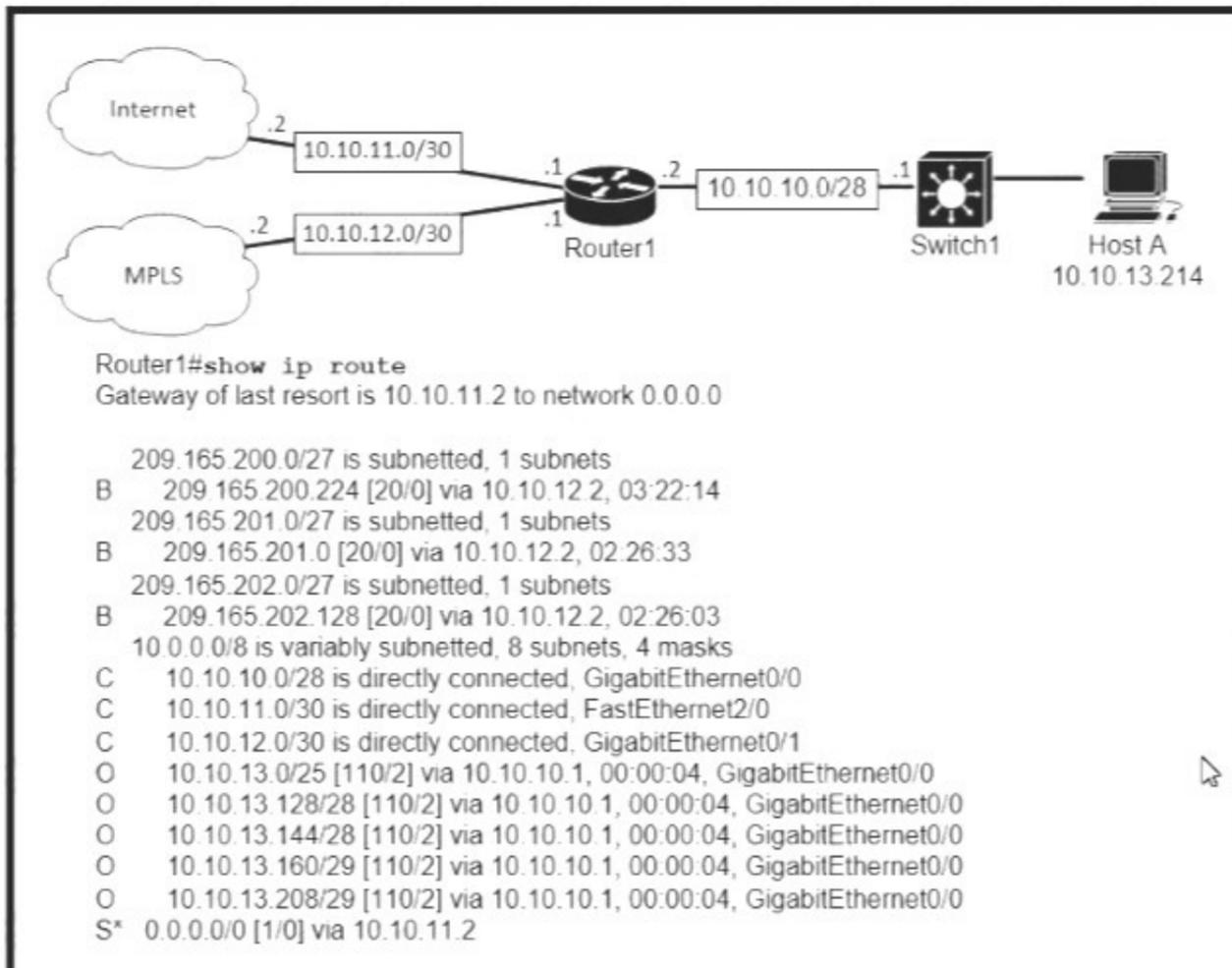
Which type of address is the public IP address of a NAT device?

- A. outside global
- B. outside local
- C. inside global
- D. inside local
- E. outside public
- F. inside public

**Answer: C**

**NEW QUESTION 7**

Refer to the exhibit.



Which prefix does Router 1 use for traffic to Host A?

- A. 10.10.10.0/28
- B. 10.10.13.0/25
- C. 10.10.13.144/28
- D. 10.10.13.208/29

Answer: C

#### NEW QUESTION 8

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 9

Refer to the exhibit.

```
ip arp inspection vlan 2
interface fastethernet 0/1
 switchport mode access
 switchport access vlan 2
```

What is the effect of this configuration?

- A. The switch port interface trust state becomes untrusted
- B. The switch port remains administratively down until the interface is connected to another switch
- C. Dynamic ARP inspection is disabled because the ARP ACL is missing
- D. The switch port remains down until it is configured to trust or untrust incoming packets

Answer: A

#### NEW QUESTION 10

A frame that enters a switch fails the Frame Check Sequence. Which two interface counters are incremented? (Choose two)

- A. runts
- B. giants
- C. frame
- D. CRC
- E. input errors

Answer: DE

#### NEW QUESTION 10

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 13

What is the primary different between AAA authentication and authorization?

- A. Authentication verifies a username and password, and authorization handles the communication between the authentication agent and the user database.
- B. Authentication identifies a user who is attempting to access a system, and authorization validates the users password
- C. Authentication identifies and verifies a user who is attempting to access a system, and authorization controls the tasks the user can perform.
- D. Authentication controls the system processes a user can access and authorization logs the activities the user initiates

Answer: C

#### NEW QUESTION 16

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 17

A Cisco IP phone receive untagged data traffic from an attached PC. Which action is taken by the phone?

- A. It allows the traffic to pass through unchanged
- B. It drops the traffic
- C. It tags the traffic with the default VLAN
- D. It tags the traffic with the native VLAN

**Answer:** C

#### NEW QUESTION 22

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 26**

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 31**

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 32**

Which unified access point mode continues to serve wireless clients after losing connectivity to the Cisco Wireless LAN Controller?

- A. sniffer
- B. mesh
- C. flexconnect
- D. local

**Answer: B**

**NEW QUESTION 37**

Drag and drop the Cisco Wireless LAN Controller security settings from the left onto the correct security mechanism categories on the right.

web policy	<b>Layer 2 Security Mechanisms</b>
Passthrough	
WPA+WPA2	<b>Layer 3 Security Mechanisms (for WLAN)</b>
802.1X	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

web policy	<b>Layer 2 Security Mechanisms</b>
Passthrough	Passthrough
WPA+WPA2	<b>Layer 3 Security Mechanisms (for WLAN)</b>
802.1X	802.1X
	WPA+WPA2
	web policy

**NEW QUESTION 41**

What is the primary effect of the spanning-tree portfast command?

- A. it enables BPDU messages
- B. It minimizes spanning-tree convergence time
- C. It immediately puts the port into the forwarding state when the switch is reloaded
- D. It immediately enables the port in the listening state

**Answer: A**

**NEW QUESTION 46**

What is the default behavior of a Layer 2 switch when a frame with an unknown destination MAC address is received?

- A. The Layer 2 switch drops the received frame
- B. The Layer 2 switch floods packets to all ports except the receiving port in the given VLAN.
- C. The Layer 2 switch sends a copy of a packet to CPU for destination MAC address learning.
- D. The Layer 2 switch forwards the packet and adds the destination MAC address to its MAC address table

**Answer: B**

**NEW QUESTION 50**

Refer to the exhibit.

```
R1# show ip route
D    192.168.16.0/26 [90/2679326] via 192.168.1.1
R    192.168.16.0/24 [120/3] via 192.168.1.2
O    192.168.16.0/21 [110/2] via 192.168.1.3
i L1 192.168.16.0/27 [115/30] via 192.168.1.4
```

Which route does R1 select for traffic that is destined to 192.168.16.2?

- A. A.-192.168.16.0/21
- B. 192.168.16.0/24
- C. 192.168.26.0/26
- D. 192.168.16.0/27

**Answer: B**

**NEW QUESTION 55**

Which IPv6 address block sends packets to a group address rather than a single address?

- A. 2000::/3
- B. FC00::/7
- C. FE80::/10
- D. FF00::/8

**Answer: C**

**NEW QUESTION 56**

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

records user activities

restricts the services that are available to a user

identifies the user

controls the actions that a user can perform

provides analytical information for the network administrator

verifies the password associated with a user

Authentication

Authorization

Accounting

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

records user activities

restricts the services that are available to a user

identifies the user

controls the actions that a user can perform

provides analytical information for the network administrator

verifies the password associated with a user

Authentication

identifies the user

controls the actions that a user can perform

Authorization

records user activities

restricts the services that are available to a user

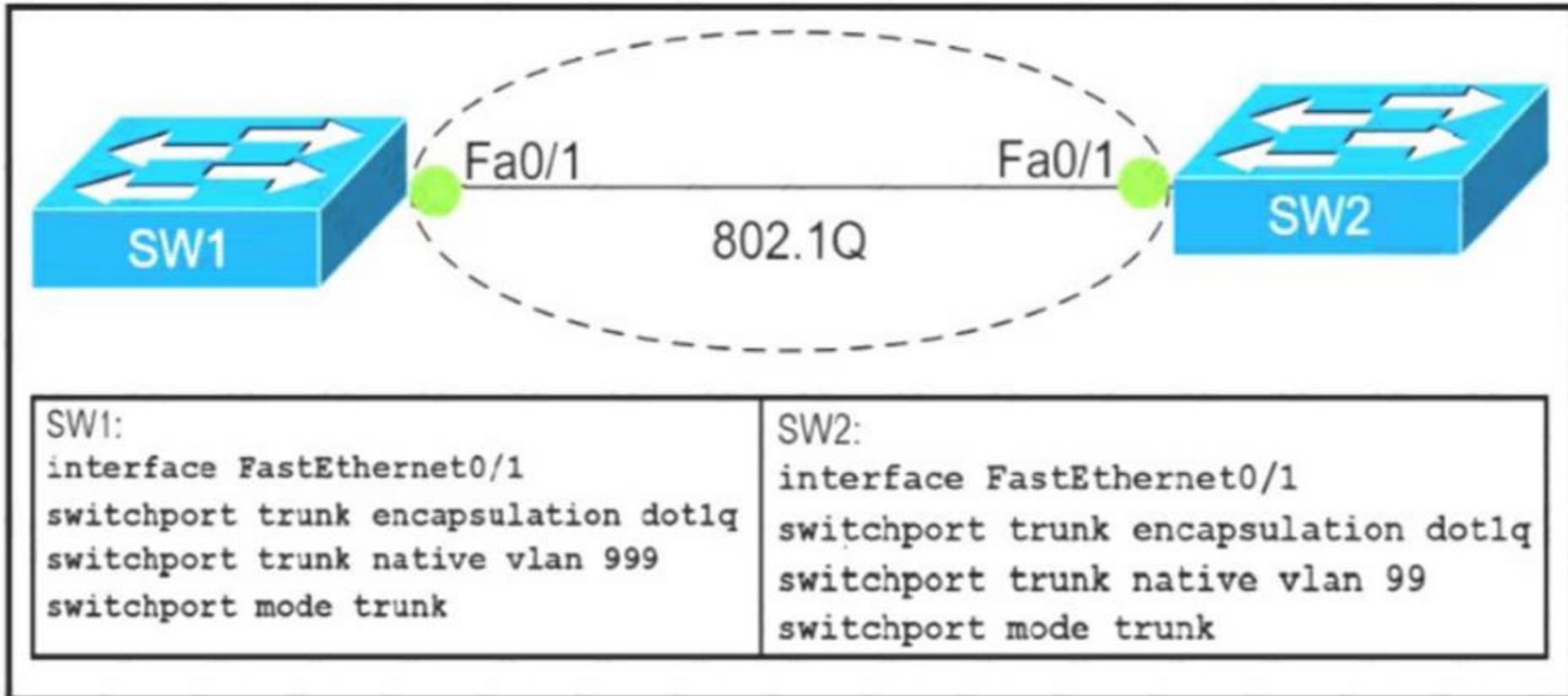
Accounting

provides analytical information for the network administrator

verifies the password associated with a user

NEW QUESTION 57

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 62**

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 65**

An engineer configured an OSPF neighbor as a designated router. Which state verifies the designated router is in the proper mode?

- A. Exchange
- B. 2-way
- C. Full
- D. Init

**Answer: B**

**NEW QUESTION 69**

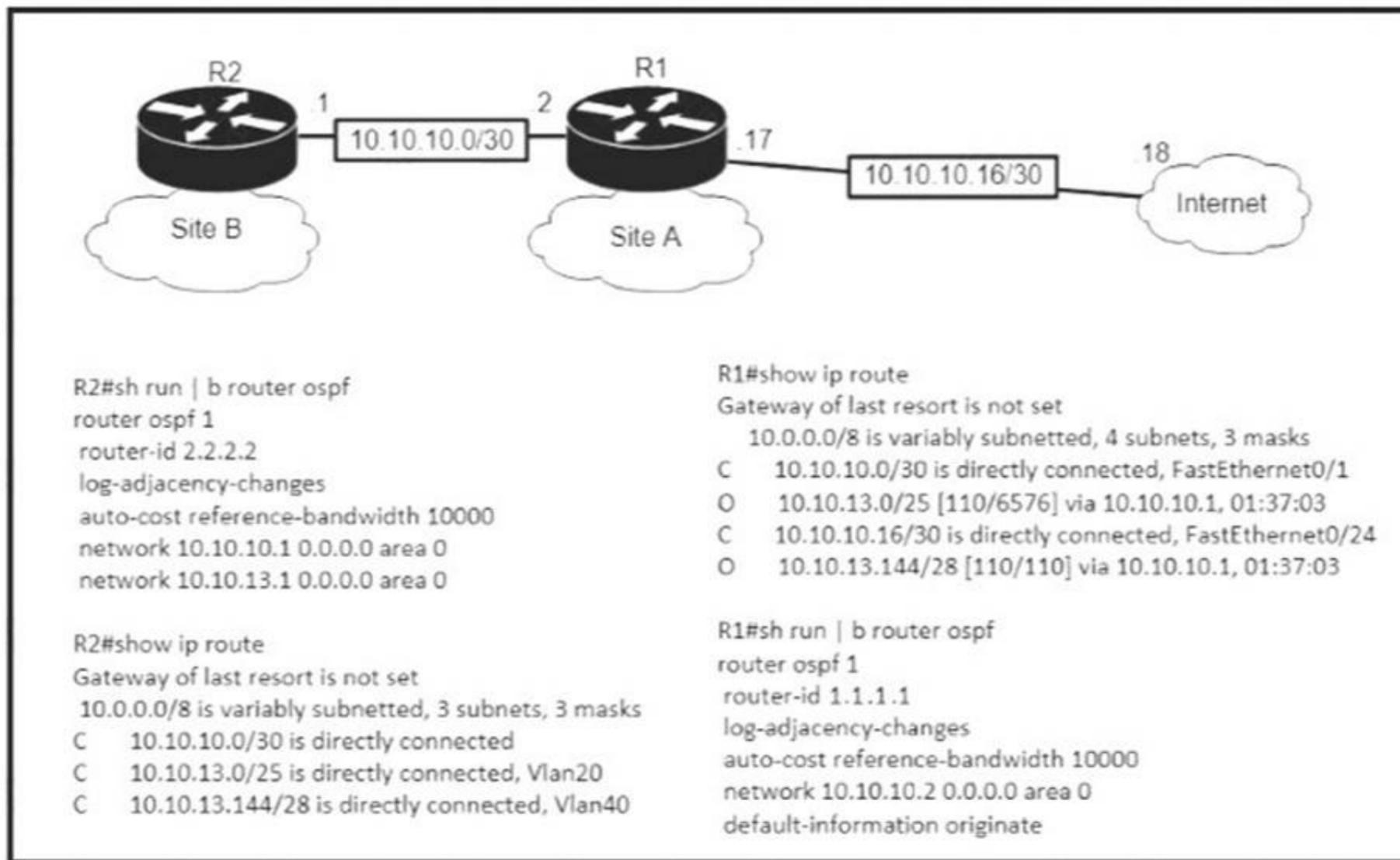
Which QoS Profile is selected in the GUI when configuring a voice over WLAN deployment?

- A. Bronze
- B. Platinum
- C. Silver
- D. Gold

**Answer: B**

**NEW QUESTION 71**

Refer to the exhibit.



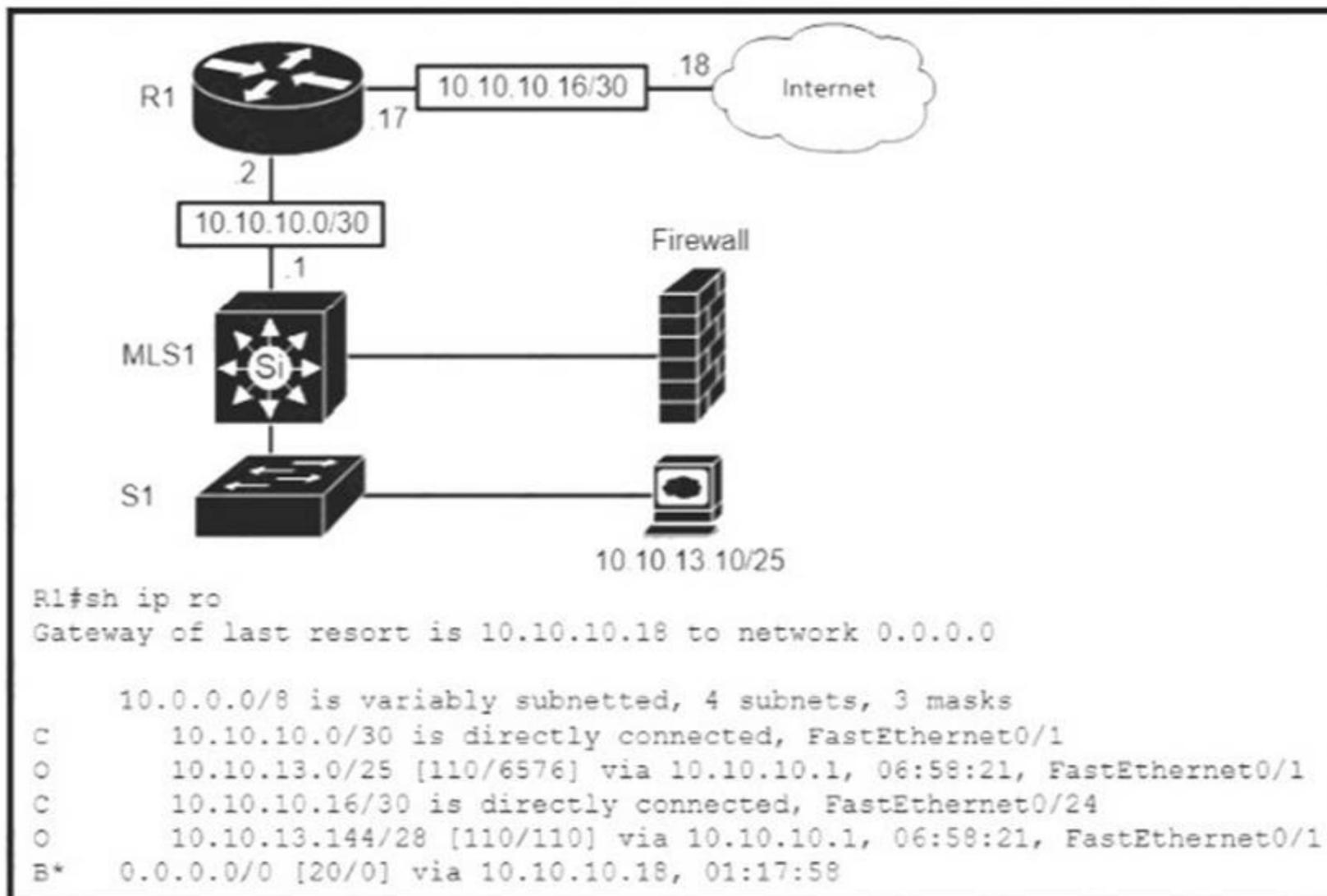
An engineer is bringing up a new circuit to the MPLS provider on the Gi0/1 interface of Router1. The new circuit uses eBGP and teams the route to VLAN25 from the BGP path. What is the expected behavior for the traffic flow for route 10.10.13.0/25?

- A. Traffic to 10.10.13.0/25 is load balanced out of multiple interfaces
- B. Route 10.10.13.0/25 is updated in the routing table as being learned from interface Gi0/1.
- C. Traffic to 10.10.13.0/25 is asymmetrical
- D. Route 10.10.13.0/25 learned via the Gi0/0 interface remains in the routing table

Answer: D

**NEW QUESTION 73**

Refer to the exhibit.



Which type of route does R1 use to reach host 10.10.13.10/32?

- A. floating static route
- B. host route
- C. default route
- D. network route

**Answer:** D

#### NEW QUESTION 75

A user configured OSPF in a single area between two routers. A serial interface connecting R1 and R2 is running encapsulation PPP. By default, which OSPF network type is seen on this interface when the user types `show ip ospf interface` on R1 or R2?

- A. port-to-multipoint
- B. broadcast
- C. point-to-point
- D. nonbroadcast

**Answer:** C

#### NEW QUESTION 77

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 79

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 81

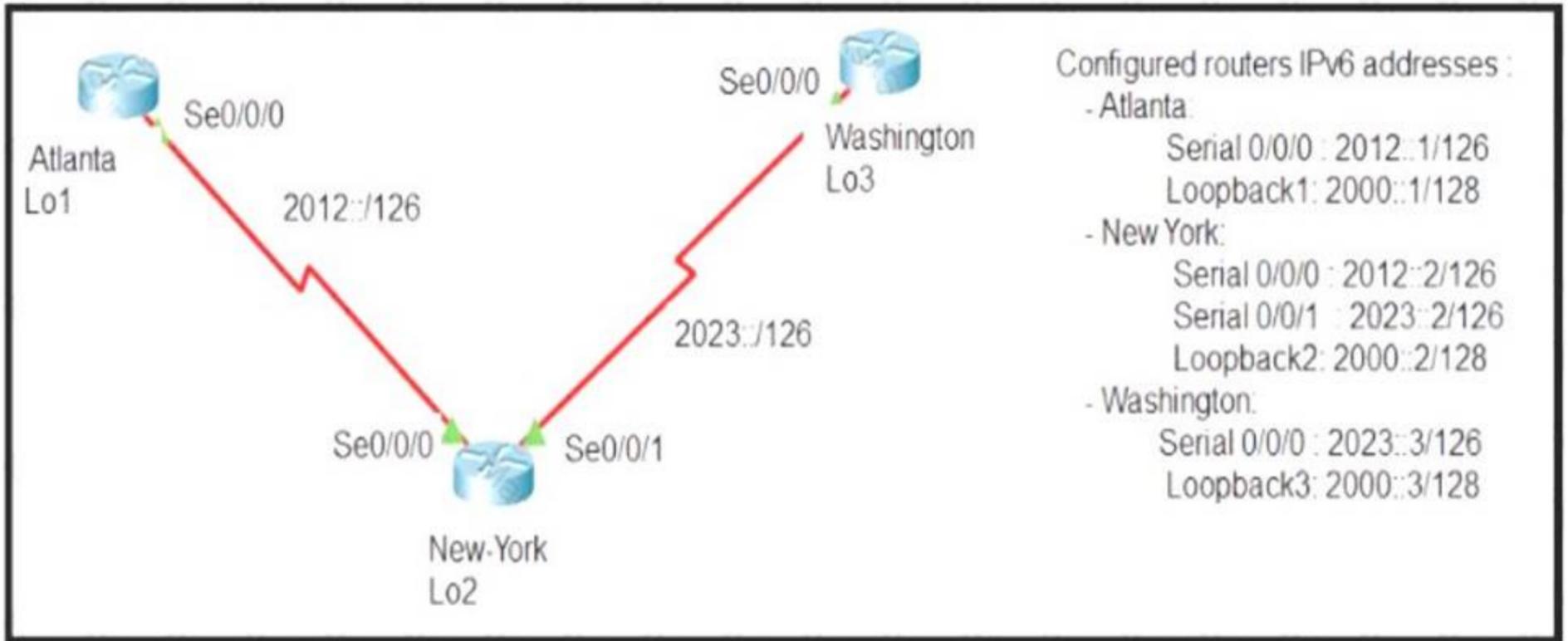
Which two tasks must be performed to configure NTP to a trusted server in client mode on a single network device? (Choose two)

- 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 85

Refer to the exhibit.



The New York router is configured with static routes pointing to the Atlanta and Washington sites. Which two tasks must be performed so that the Serial0/0/0 interfaces on the Atlanta and Washington routers can reach one another? (Choose two.)

- A. Configure the ipv6 route 2012::/126 2023::1 command on the Washington router
- B. Configure the ipv6 route 2023::/126 2012::1 command on the Atlanta router.
- C. Configure the Ipv6 route 2012::/126 s0/0/0 command on the Atlanta router
- D. Configure the ipv6 route 2023::/126 2012::2 command on the Atlanta router
- E. Configure the ipv6 route 2012::/126 2023::2 command on the Washington router

Answer: CE

**NEW QUESTION 86**

What makes Cisco DNA Center different from traditional network management applications and their management of networks?

- A. It only supports auto-discovery of network elements in a greenfield deployment.
- B. Its modular design allows someone to implement different versions to meet the specific needs of an organization
- C. IT abstracts policy from the actual device configuration
- D. It does not support high availability of management functions when operating in cluster mode

Answer: A

**NEW QUESTION 89**

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	FTP
does not require user authentication	
uses port 69	
uses ports 20 and 21	TFTP
uses TCP	
uses UDP	

- 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 91**

Drag drop the descriptions from the left onto the correct configuration-management technologies on the right.

fundamental configuration elements are stored in a manifest

uses TCP port 10002 for configuration push jobs

uses Ruby for fundamental configuration elements

uses SSH for remote device communication

uses TCP 8140 for communication

uses YAML for fundamental configuration elements

**Ansible**

**Chef**

**Puppet**

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- fundamental configuration elements are stored in a manifest
- uses TCP port 10002 for configuration push jobs
- uses Ruby for fundamental configuration elements
- uses SSH for remote device communication
- uses TCP 8140 for communication
- uses YAML for fundamental configuration elements

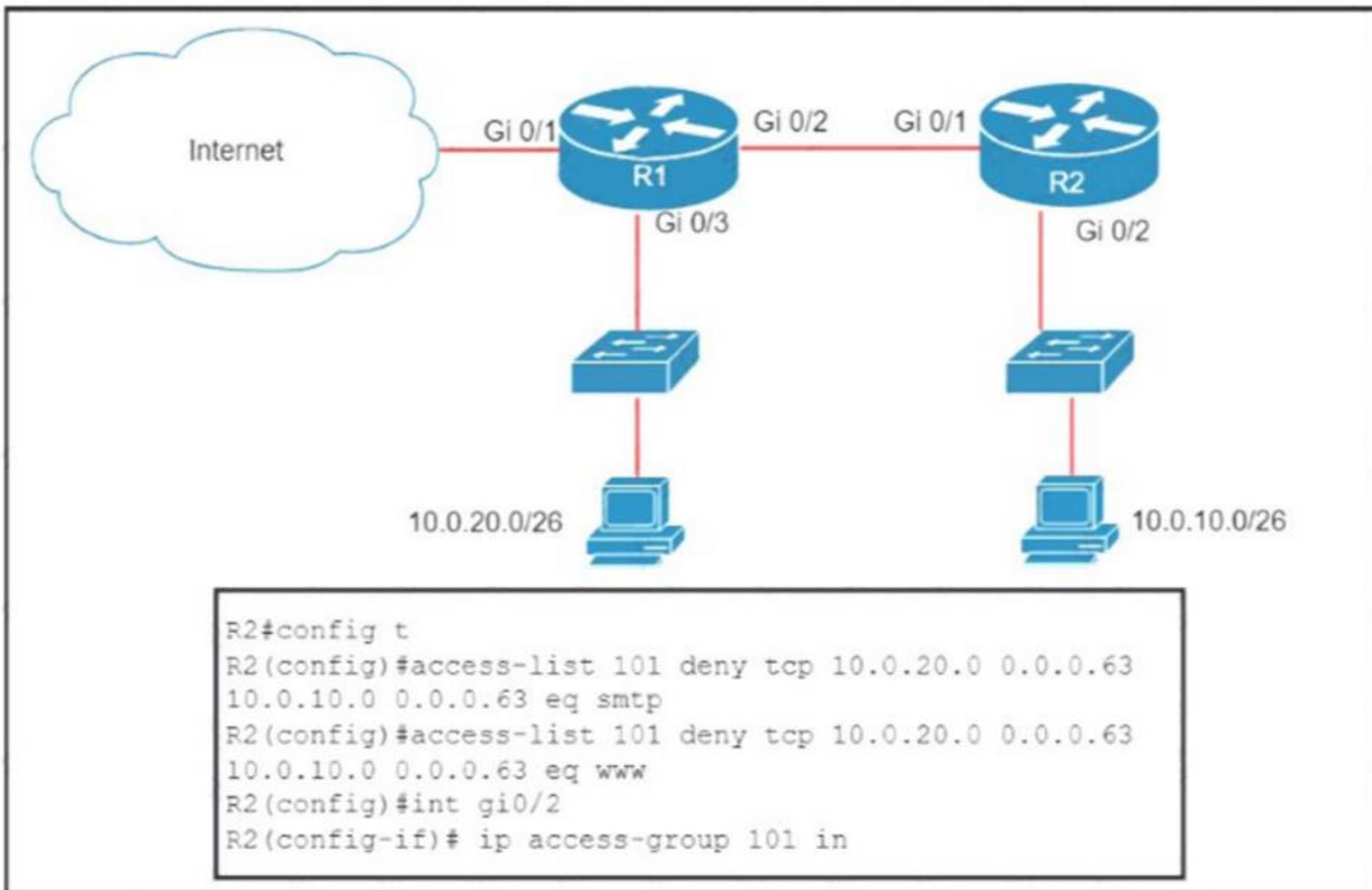
- Ansible**
- uses TCP port 10002 for configuration push jobs
  - uses TCP 8140 for communication

- Chef**
- uses Ruby for fundamental configuration elements
  - uses SSH for remote device communication

- Puppet**
- uses YAML for fundamental configuration elements
  - fundamental configuration elements are stored in a manifest

**NEW QUESTION 96**

Refer to the exhibit.



An extended ACL has been configured and applied to router R2. The configuration failed to work as intended. Which two changes stop outbound traffic on TCP ports 25 and 80 to 10.0.20.0/26 from the 10.0.10.0/26 subnet while still allowing all other traffic? (Choose two)

- A. Add a "permit ip any any" statement to the beginning of ACL 101 for allowed traffic.
- B. Add a "permit ip any any" statement at the end of ACL 101 for allowed traffic.
- C. The source and destination IPs must be swapped in ACL 101.
- D. The ACL must be configured on the Gi0/2 interface inbound on R1.
- E. The ACL must be moved to the Gi0/1 interface outbound on R2.

**Answer: AE**

**NEW QUESTION 97**

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 99**

A router running EIGRP has learned the same route from two different paths Which parameter does the router use to select the best path?

- A. cost
- B. administrative distance
- C. metric
- D. as-path

**Answer: C**

**NEW QUESTION 103**

R1 has learned route 192.168.12.0/24 via IS-IS, OSPF, RIP, and Internal EIGRP Under normal operating conditions, which routing protocol is installed in the routing table?

- A. IS-IS
- B. RIP
- C. Internal EIGRP
- D. OSPF

**Answer: C**

**NEW QUESTION 107**

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 108**

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 113**

Drag and drop the WLAN components from the left onto the correct descriptions on the right.

access point	
virtual interface	
dynamic interface	
service port	
wireless LAN controller	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

- 5:1
- 1:2
- 2:4
- 4:3
- 3:5

**NEW QUESTION 118**

Which statement about Link Aggregation when implemented on a Cisco Wireless LAN Controller is true?

- A. To pass client traffic two or more ports must be configured.
- B. The EtherChannel must be configured in "mode active"
- C. When enabled the WLC bandwidth drops to 500 Mbps
- D. One functional physical port is needed to pass client traffic

Answer: C

**NEW QUESTION 119**

Which API is used in controller-based architectures to interact with edge devices?

- A. overlay
- B. northbound
- C. underlay
- D. southbound

Answer: D

**NEW QUESTION 120**

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 123

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