Cisco

Exam Questions 200-301

Cisco Certified Network Associate

NEW QUESTION 1
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 2
What are two southbound APIs? (Choose two)

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

Answer: CD

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
An email user has been lured into clicking a link in an email sent by their company's security organization. The webpage that opens reports that it was safe but the link could have contained malicious code. Which type of security program is in place?

A. Physical access control
B. Social engineering attack
C. brute force attack
D. user awareness

Answer: B

NEW QUESTION 6
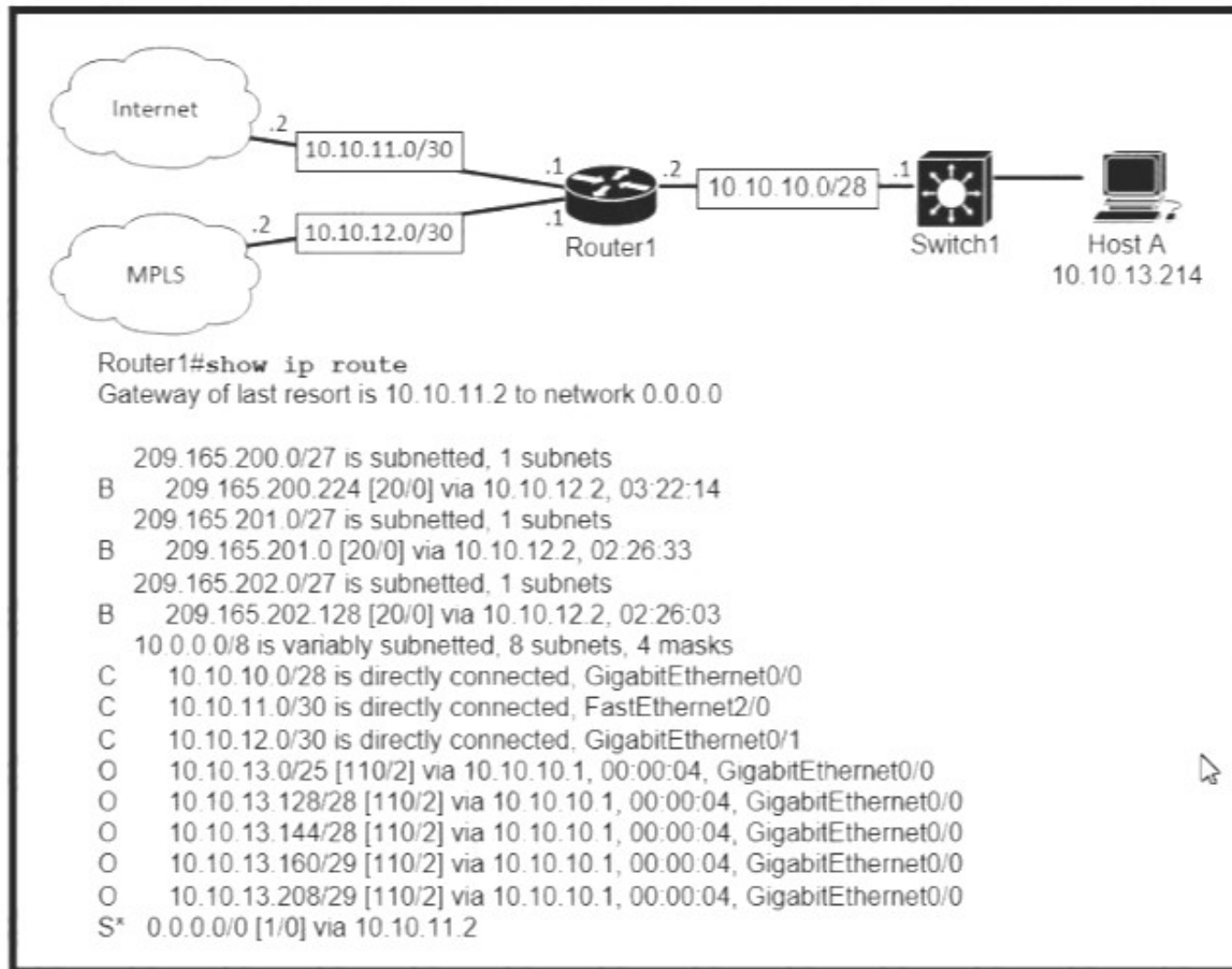Which type of wireless encryption is used for WPA2 in preshared key mode?

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

Answer: D

NEW QUESTION 7
Refer to the exhibit.

```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

      209.165.200.0/27 is subnetted, 1 subnets
B        209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
      209.165.201.0/27 is subnetted, 1 subnets
B        209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
      209.165.202.0/27 is subnetted, 1 subnets
B        209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
      10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C        10.10.10.0/28 is directly connected, GigabitEthernet0/0
C        10.10.11.0/30 is directly connected, FastEthernet2/0
C        10.10.12.0/30 is directly connected, GigabitEthernet0/1
O        10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O        10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O        10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O        10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O        10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

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
How does HSRP provide first hop redundancy?

A. It load-balances traffic by assigning the same metric value to more than one route to the same destination m the IP routing table.
B. It load-balances Layer 2 traffic along the path by flooding traffic out all interfaces configured with the same VLAN.
C. It forwards multiple packets to the same destination over different routed links n the data path
D. It uses a shared virtual IMC and a virtual IP address to a group of routers that serve as the default gateway for hosts on a LAN

Answer: C

NEW QUESTION 9
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
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 15
Which output displays a JSON data representation?

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

Answer: C

NEW QUESTION 18
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 22
Router A learns the same route from two different neighbors, one of the neighbor routers is an OSPF neighbor and the other is an EIGRP neighbor. What is the administrative distance of the route that will be installed in the routing table?

A. 20
B. 90
C. 110
D. 115

Answer: B

NEW QUESTION 26
Refer to the exhibit.

```
R2#show ip nat translations
Pro Inside global      Inside local    Outside local    Outside global
tcp 172.23.104.3:43268 10.4.4.4:43268 172.23.103.10:23 172.23.103.10:23
tcp 172.23.104.4:45507 10.4.4.5:45507 172.23.103.10:80 172.23.103.10:80
```

An engineer configured NAT translations and has verified that the configuration is correct. Which IP address is the source IP?

A. 10.4.4.4
B. 10.4.4.5
C. 172.23.103.10
D. 172.23.104.4

Answer: C

NEW QUESTION 30
Drag and drop the AAA functions from the left onto the correct AAA services on the right

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Authentication	
identifies the user	
controls the actions that a user can perform	

records user activities	
restricts the services that are available to a user	

Authorization	
records user activities	
restricts the services that are available to a user	

identifies the user	
controls the actions that a user can perform	

Accounting	
provides analytical information for the network administrator	
verifies the password associated with a user	

provides analytical information for the network administrator	
verifies the password associated with a user	
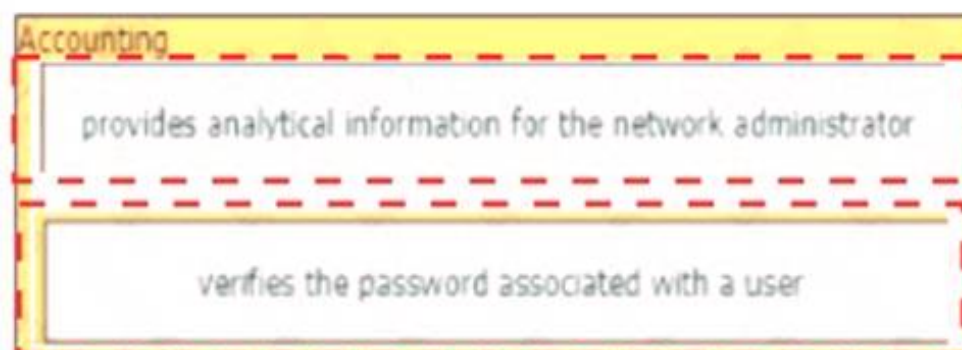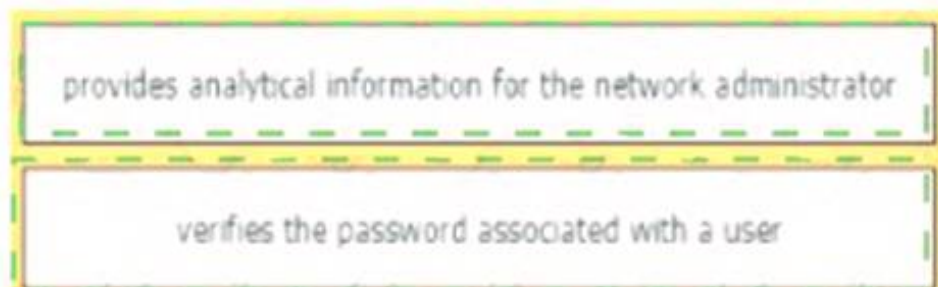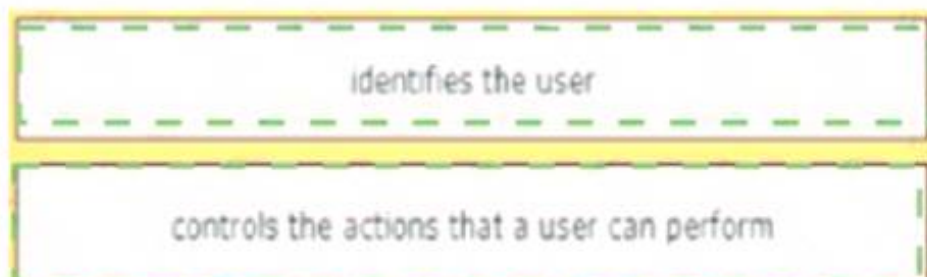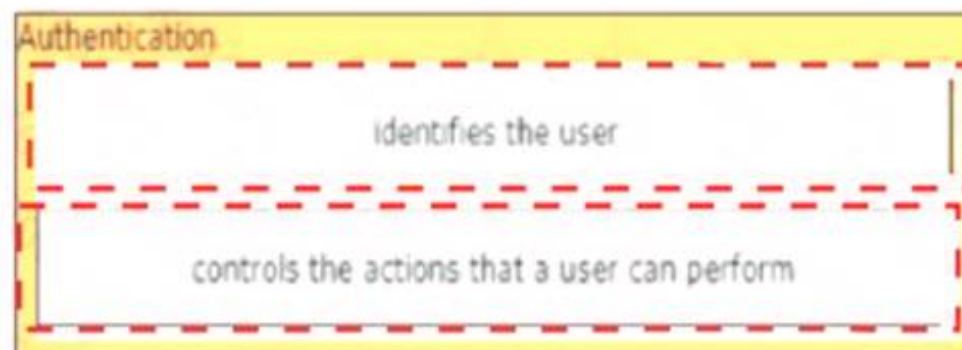
NEW QUESTION 33
Refer to Exhibit.

SW1:
```
interface FastEthernet0/1
switchport trunk encapsulation dot1q
switchport trunk native vlan 999
switchport mode trunk
```

SW2:
```
interface FastEthernet0/1
switchport trunk encapsulation dot1q
switchport trunk native vlan 99
switchport mode trunk
```
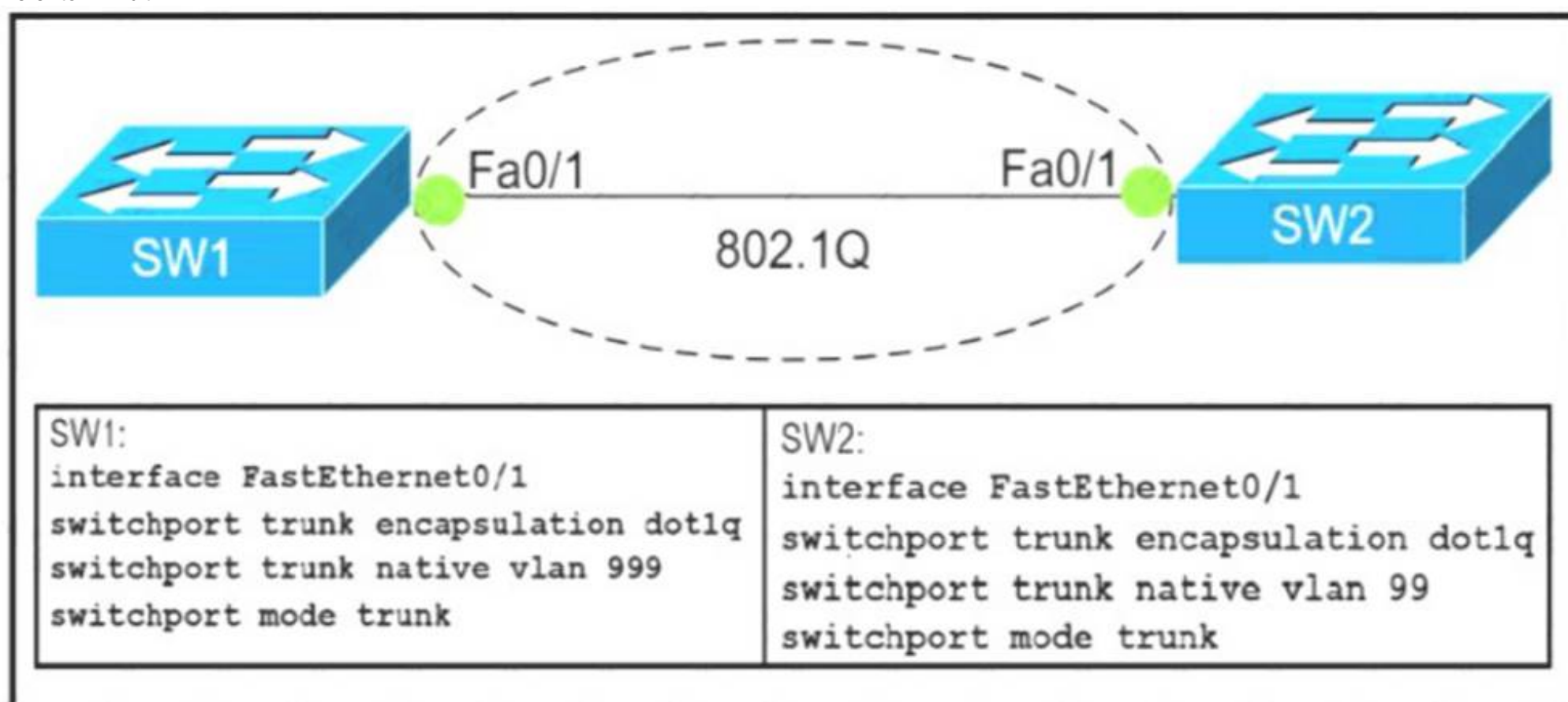
Which action do the switches take on the trunk link?

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 36
Which command is used to specify the delay time in seconds for LLDP to initialize on any interface?

A. lldp timer
B. lldp holdtimt
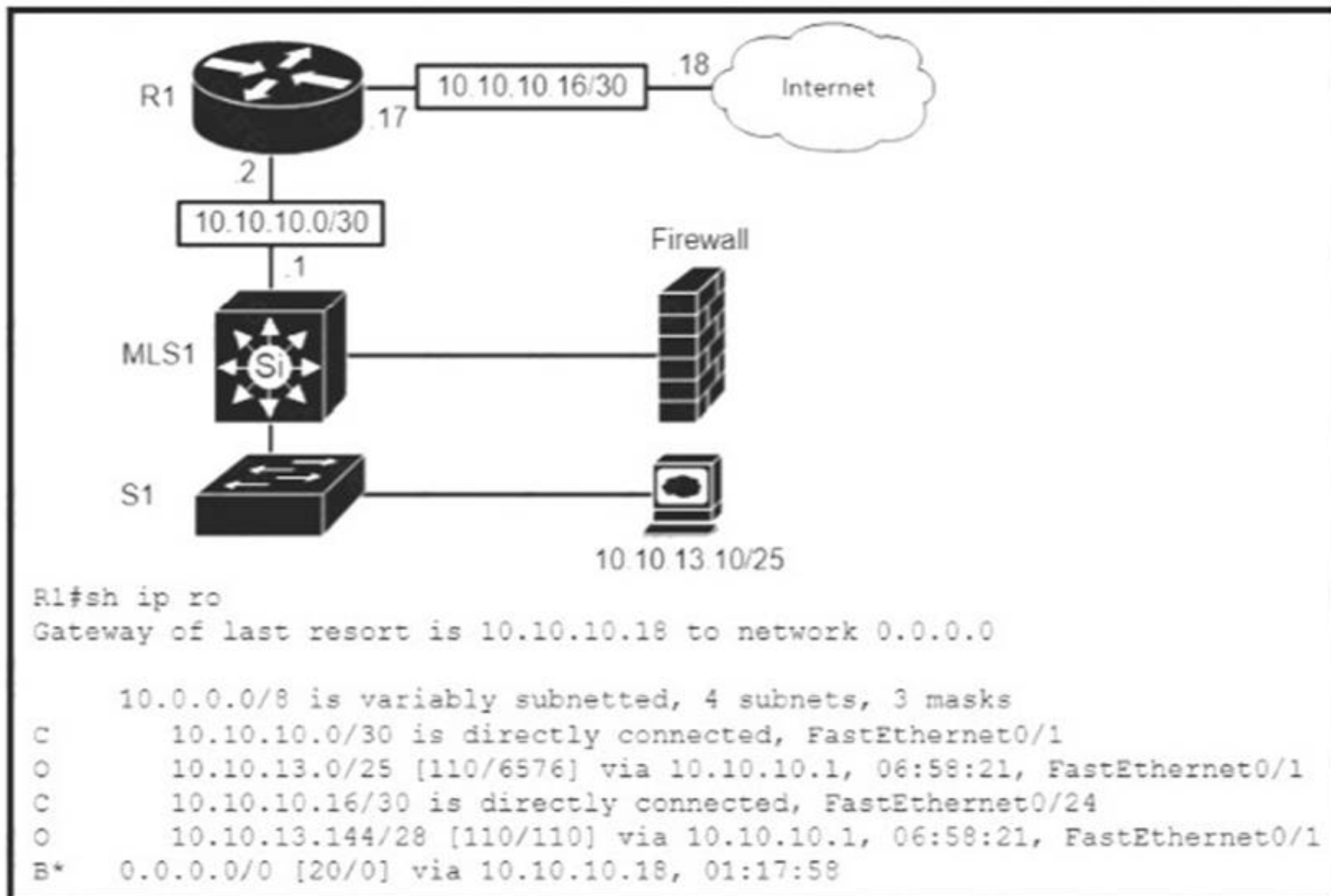C. lldp reinit

D. lldp tlv-select

Answer: D

NEW QUESTION 40
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 42
Refer to the exhibit.


```
R1#sh ip ro
Gateway of last resort is 10.10.10.18 to network 0.0.0.0

        10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C          10.10.10.0/30 is directly connected, FastEthernet0/1
O          10.10.13.0/25 [110/6576] via 10.10.10.1, 06:58:21, FastEthernet0/1
C          10.10.10.16/30 is directly connected, FastEthernet0/24
O          10.10.13.144/28 [110/110] via 10.10.10.1, 06:58:21, FastEthernet0/1
B*      0.0.0.0/0 [20/0] via 10.10.10.18, 01:17:58
```
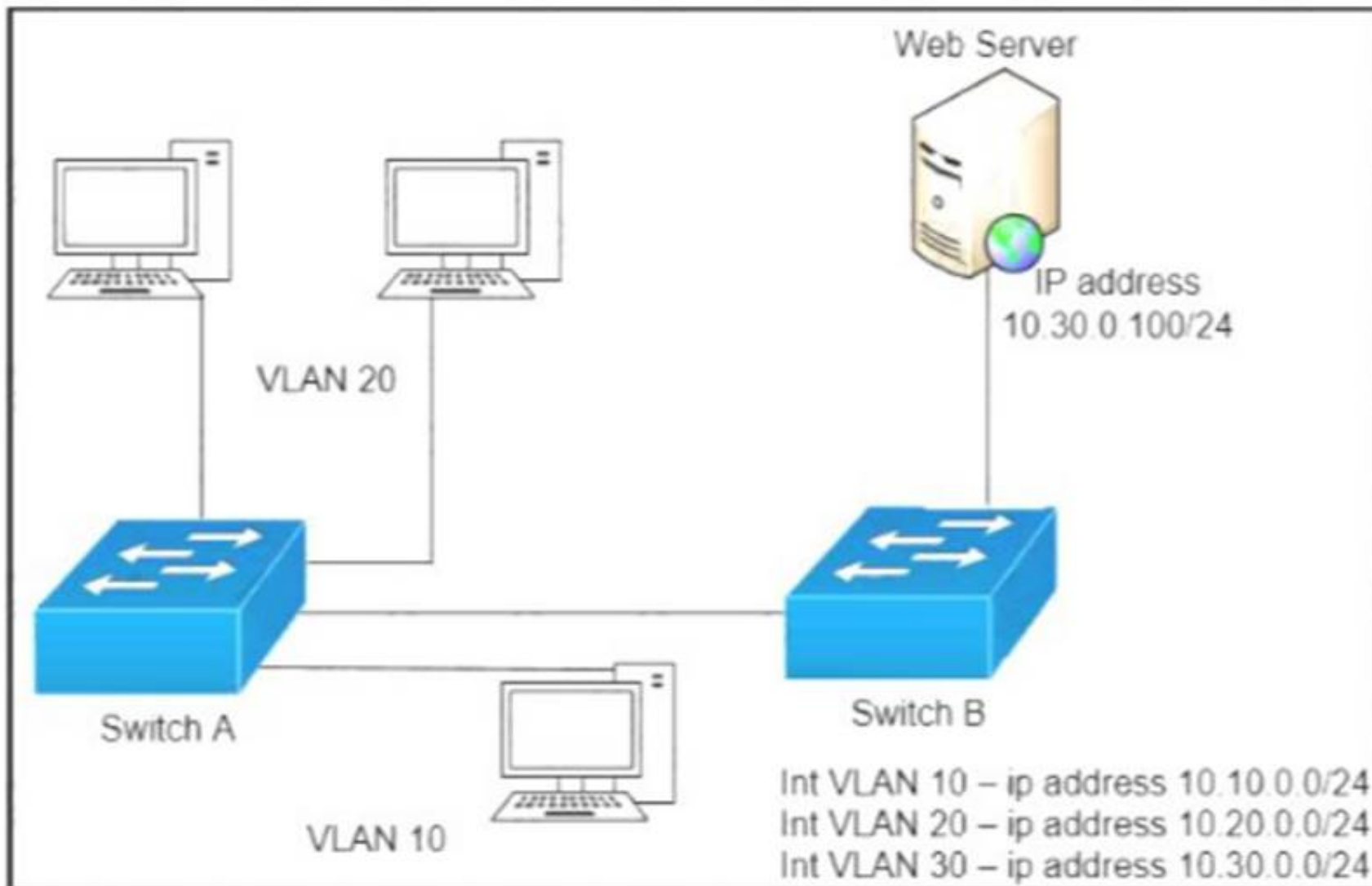
Which type of route does R1 use to reach host 10.10.13.10/32?

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

Answer: D

NEW QUESTION 47
Refer to the exhibit.

A network engineer must block access for all computers on VLAN 20 to the web server via HTTP All other computers must be able to access the web server Which configuration when applied to switch A accomplishes this task?

```
config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
int vlan 10
ip access-group wwwblock in
```

```
config t
ip access-list extended wwwblock
deny tcp any host 10.30.0.100 eq 80
permit ip any any
int vlan 20
ip access-group wwwblock in
```

```
config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 30
ip access-group wwwblock in
```

```
config t
ip access-list extended wwwblock
permit ip any any
deny tcp any host 10.30.0.100 eq 80
int vlan 20
ip access-group wwwblock in
```

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

Answer: B

NEW QUESTION 49
Two switches are connected and using Cisco Dynamic Trunking Protocol SW1 is set to Dynamic Desirable What is the result of this configuration?

A. The link is in a down state.
B. The link is in an error disables state
C. The link is becomes an access port.
D. The link becomes a trunk port.

Answer: D

NEW QUESTION 50
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 51
Which command automatically generates an IPv6 address from a specified IPv6 prefix and MAC address of an interface?

A. ipv6 address dhcp
B. ipv6 address 2001:DB8:5:112::/64 eui-64
C. ipv6 address autoconfig
D. ipv6 address 2001:DB8:5:112::2/64 link-local

Answer: C

NEW QUESTION 56
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 routed share the same IP address, and default gateway traffic is load-balanced between them

Answer: AB

NEW QUESTION 57
Which 802.11 frame type is association response?

A. management
B. protected frame
C. control
D. action

Answer: B

NEW QUESTION 61
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 64
Which result occurs when PortFast is enabled on an interface that is connected to another switch?

A. Spanning tree may fail to detect a switching loop in the network that causes broadcast storms
B. VTP is allowed to propagate VLAN configuration information from switch to switch automatically.
C. Root port choice and spanning tree recalculation are accelerated when a switch link goes down
D. After spanning tree converges PortFast shuts down any port that receives BPDUs.

Answer: A

NEW QUESTION 67
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 69
Drag and drop the descriptions of file-transfer protocols from the left onto the correct protocols on the right.

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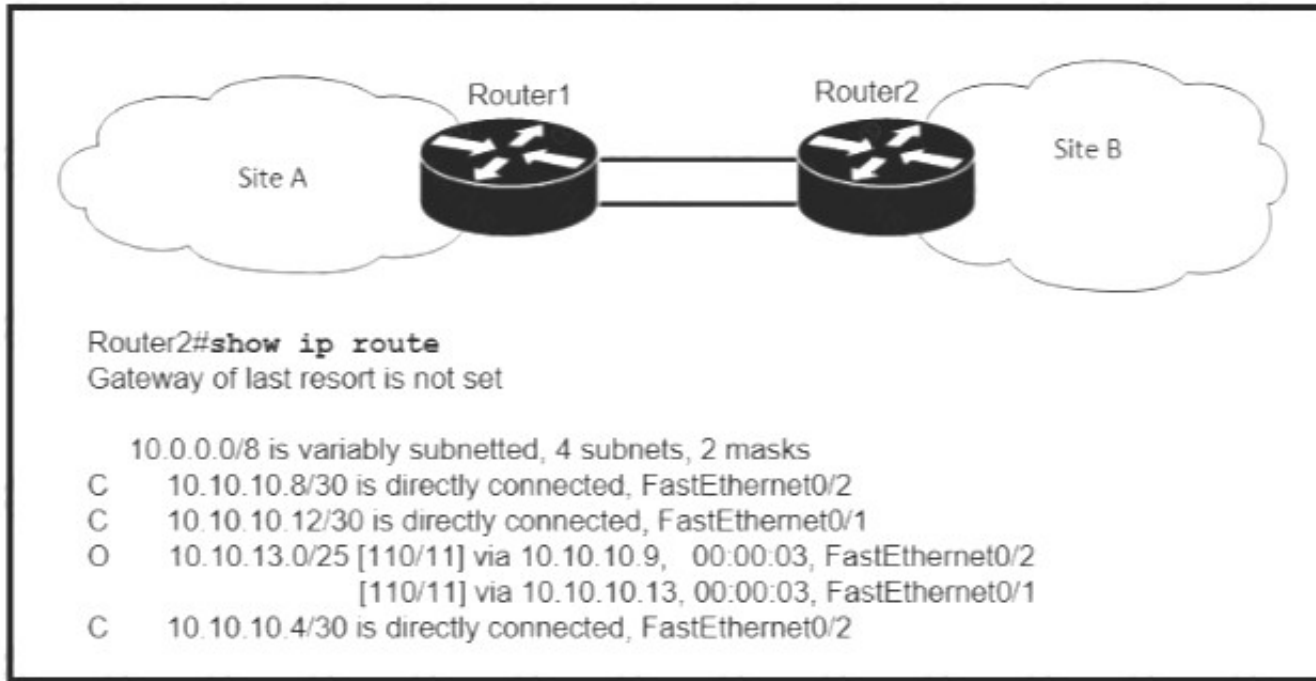
	FTP
provides reliability when loading an IOS image upon boot up	provides reliability when loading an IOS image upon boot up
does not require user authentication	uses ports 20 and 21
uses port 69	uses TCP

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

NEW QUESTION 72
Refer to the exhibit.

```
Router2#show ip route
Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 4 subnets, 2 masks
C       10.10.10.8/30 is directly connected, FastEthernet0/2
C       10.10.10.12/30 is directly connected, FastEthernet0/1
O       10.10.13.0/25 [110/11] via 10.10.10.9,  00:00:03, FastEthernet0/2
                      [110/11] via 10.10.10.13, 00:00:03, FastEthernet0/1
C       10.10.10.4/30 is directly connected, FastEthernet0/2
```

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 75
Drag drop the descriptions from the left onto the correct configuration-management technologies on the right.

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

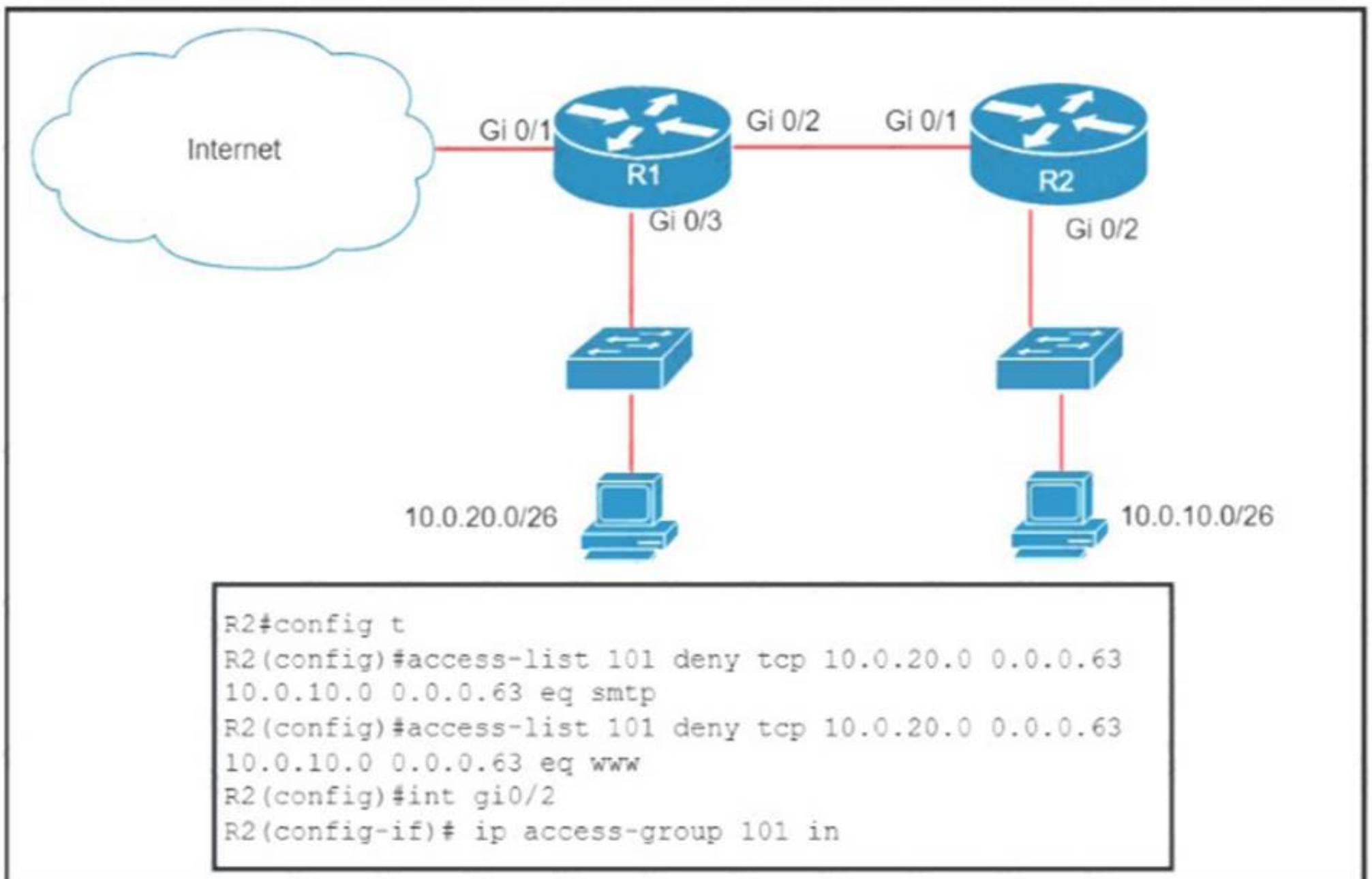| |
|---|
| uses YAML for fundamental configuration elements |
| fundamental configuration elements are stored in a manifest |

NEW QUESTION 80
Refer to the exhibit.


```
R2#config t
R2(config)#access-list 101 deny tcp 10.0.20.0 0.0.0.63
10.0.10.0 0.0.0.63 eq smtp
R2(config)#access-list 101 deny tcp 10.0.20.0 0.0.0.63
10.0.10.0 0.0.0.63 eq www
R2(config)#int gi0/2
R2(config-if)# ip access-group 101 in
```

An extended ACL has been configured and applied to router R2 The configuration farted to work as intended Which two changes stop outbound traffic on TCP ports 25 and 80 to 10.0 20 026 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 begining 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 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 81
Which MAC address is recognized as a VRRP virtual address?

A. 0000.5E00.010a
B. 0005.3711.0975
C. 0000.0C07.AC99
D. 0007.C070/AB01

Answer: A

NEW QUESTION 85
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 90
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 95
Drag and drop the WLAN components from the left onto the correct descriptions on the right.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
5:1
1:2
2:4
4:3

3:5

NEW QUESTION 97
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 102
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