Cisco

Exam Questions 200-301

Cisco Certified Network Associate

NEW QUESTION 1
When configuring IPv6 on an interface, which two IPv6 multicast groups are joined? (Choose two)

A. 2000::/3
B. 2002::5
C. FC00::/7
D. FF02::1
E. FF02::2

Answer: DE

NEW QUESTION 2
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 3
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 4
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 5
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 6
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 7
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 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
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
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 10
Which output displays a JSON data representation?

```
{
    "response": {
        "taskId": {},
        "url": "string"
    }
    "version": "string"
}
```

```
{
    "response": {
        "taskId": {},
        "url": "string"
    };
    "version": "string"
}
```

```
{
    "response"- {
        "taskId"- {},
        "url"- "string"
    },
    "version"- "string"
}
```

```
{
    "response": {
        "taskId": {},
        "url": "string"
    },
    "version": "string"
}
```

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

Answer: C

NEW QUESTION 13
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 18
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 19
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 22
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 27
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.-192.168.16.0/21B.192.168.16.0/24C.192.168 26.0/26D.192.168.16.0/27

Answer: B

NEW QUESTION 32
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 33
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 38
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 39
Refer to the exhibit.

Designated Router (ID) 10.11.11.11, Interface address 10.10.10.1
Backup Designated router (ID) 10.3.3.3, Interface address 10.10.10.3
Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
oob-resync timeout 40
Hello due in 00:00:08
Supports Link-local Signaling (LLS)
Cisco NSF helper support enabled
IETF NSF helper support enabled
Index 1/1/1, flood queue length 0
Next 0x0(0)/0x0(0)/0x0(0)
Last flood scan length is 1, maximum is 6
Last flood scan time is 0 msec, maximum is 1 msec
Neighbor Count is 3, Adjacent neighbor count is 3
Adjacent with neighbor 10.1.1.4
Adjacent with neighbor 10.2.2.2
Adjacent with neighbor 10.3.3.3 (Backup Designated Router)
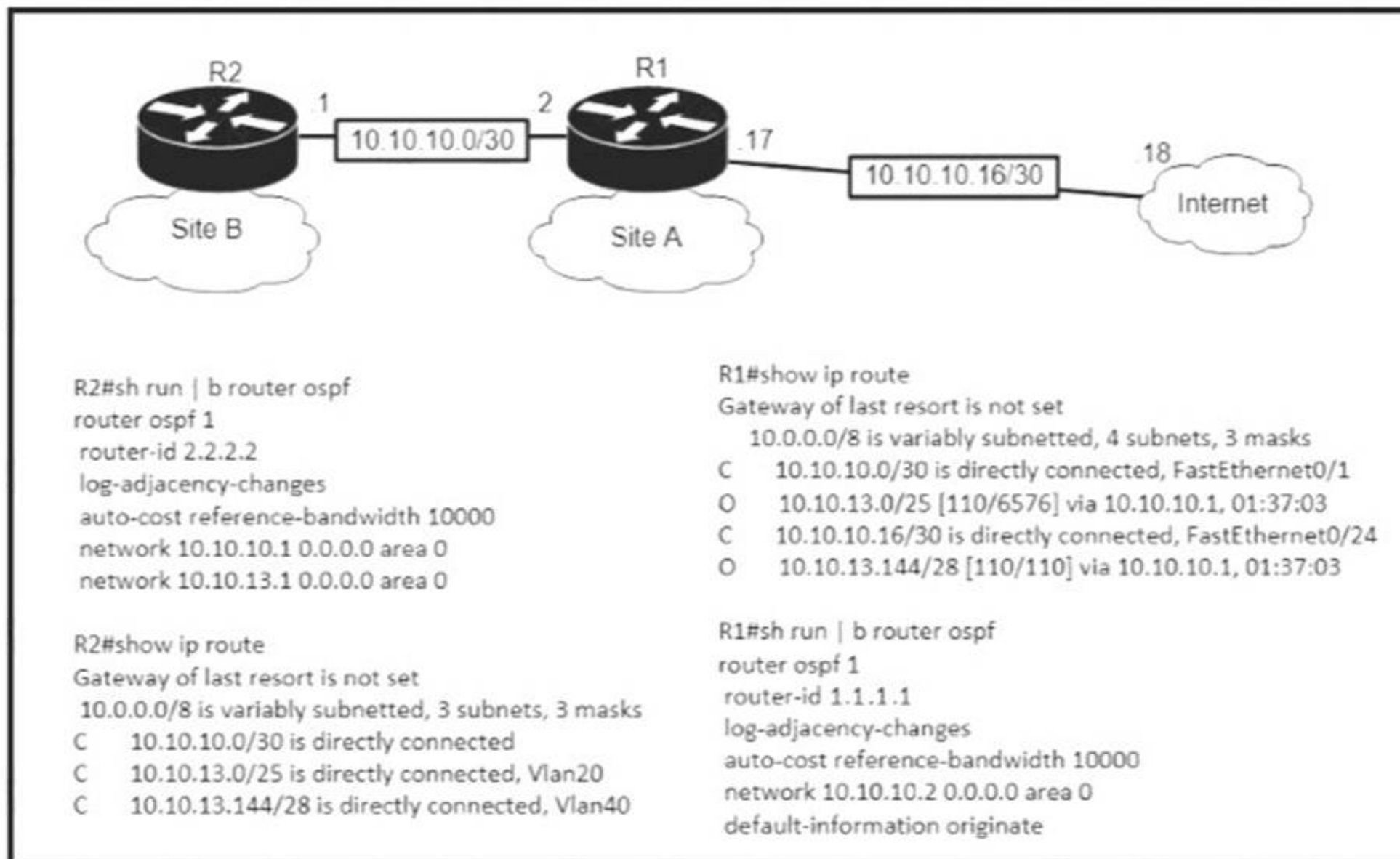Suppress hello for 0 neighbor(s)

The show ip ospf interface command has been executed on R1 How is OSPF configured?

A. The interface is not participating in OSPF
B. A point-to-point network type is configured
C. The default Hello and Dead timers are in use
D. There are six OSPF neighbors on this interface

Answer: A

NEW QUESTION 42
Refer to the exhibit.

R2#sh run | b router ospf
router ospf 1
 router-id 2.2.2.2
 log-adjacency-changes
 auto-cost reference-bandwidth 10000
 network 10.10.10.1 0.0.0.0 area 0
 network 10.10.13.1 0.0.0.0 area 0

R2#show ip route
Gateway of last resort is not set
 10.0.0.0/8 is variably subnetted, 3 subnets, 3 masks
C   10.10.10.0/30 is directly connected
C   10.10.13.0/25 is directly connected, Vlan20
C   10.10.13.144/28 is directly connected, Vlan40

R1#show ip route
Gateway of last resort is not set
 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, 01:37:03
C   10.10.10.16/30 is directly connected, FastEthernet0/24
O   10.10.13.144/28 [110/110] via 10.10.10.1, 01:37:03

R1#sh run | b router ospf
router ospf 1
 router-id 1.1.1.1
 log-adjacency-changes
 auto-cost reference-bandwidth 10000
 network 10.10.10.2 0.0.0.0 area 0
 default-information originate

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 s 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 asymmeteical
D. Route 10.10.13.0/25 learned via the GiO/0 interface remains in the routing table
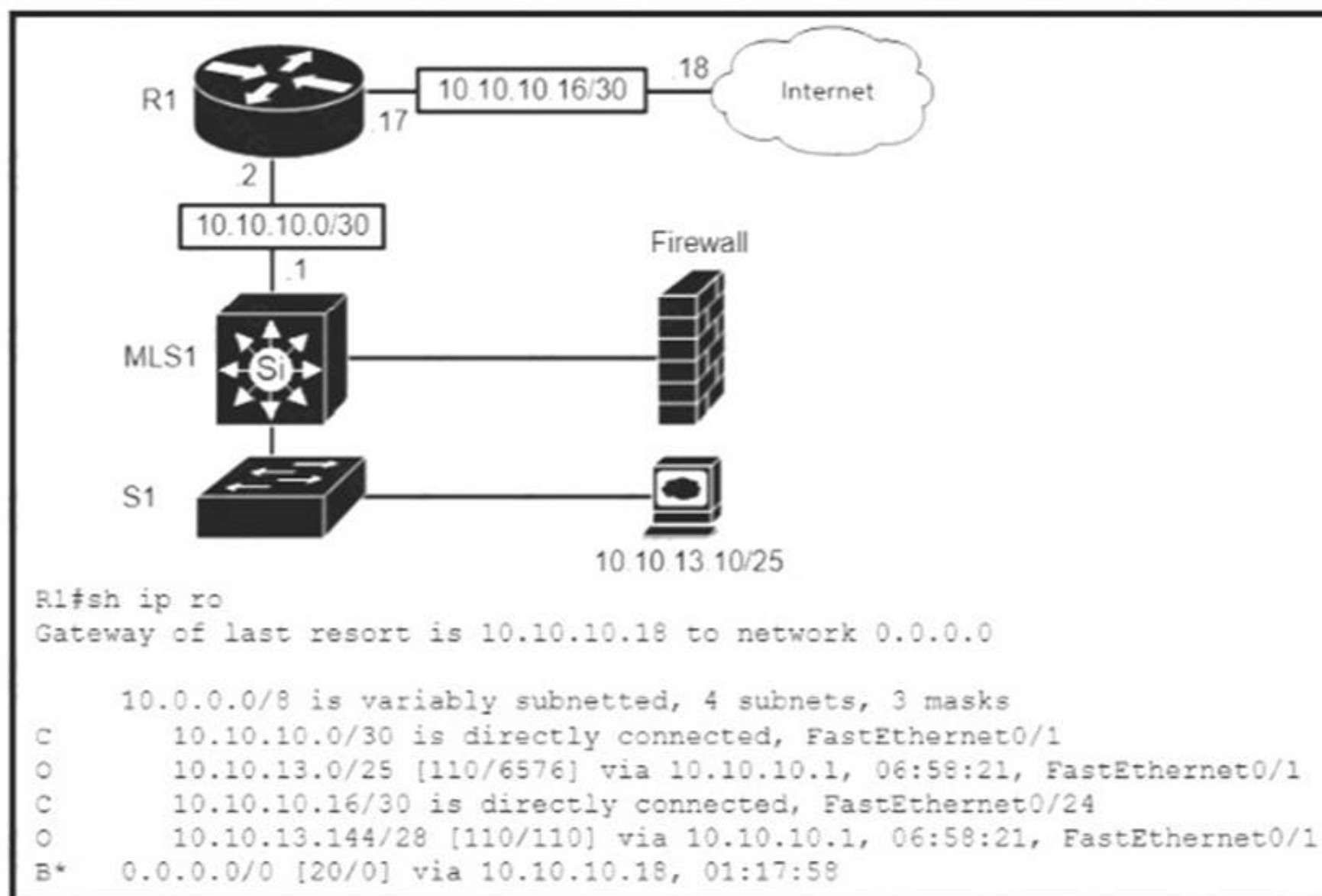
Answer: D

NEW QUESTION 47
Which statement identifies the functionality of virtual machines?

A. Virtualized servers run most efficiently when they are physically connected to a switch that is separate from the hypervisor
B. The hypervisor can virtualize physical components including CP
C. memory, and storage
D. Each hypervisor can support a single virtual machine and a single software switch
E. The hypervisor communicates on Layer 3 without the need for additional resources

Answer: D

NEW QUESTION 49
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 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 57
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 59
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 60
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 65
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
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. It 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 70
Refer to the exhibit.

```
R1#show ip interface brief
Interface               IP-Address      OK? Method Status                    Protocol
FastEthernet0/0         unassigned      YES NVRAM  administratively down down
GigabitEthernet1/0      192.168.0.1     YES NVRAM  up                        up
GigabitEthernet2/0      10.10.1.10      YES manual up                        up
GigabitEthernet3/0      10.10.10.20     YES manual up                        up
GigabitEthernet4/0      unassigned      YES NVRAM  administratively down down
Loopback0               172.16.15.10    YES manual
```
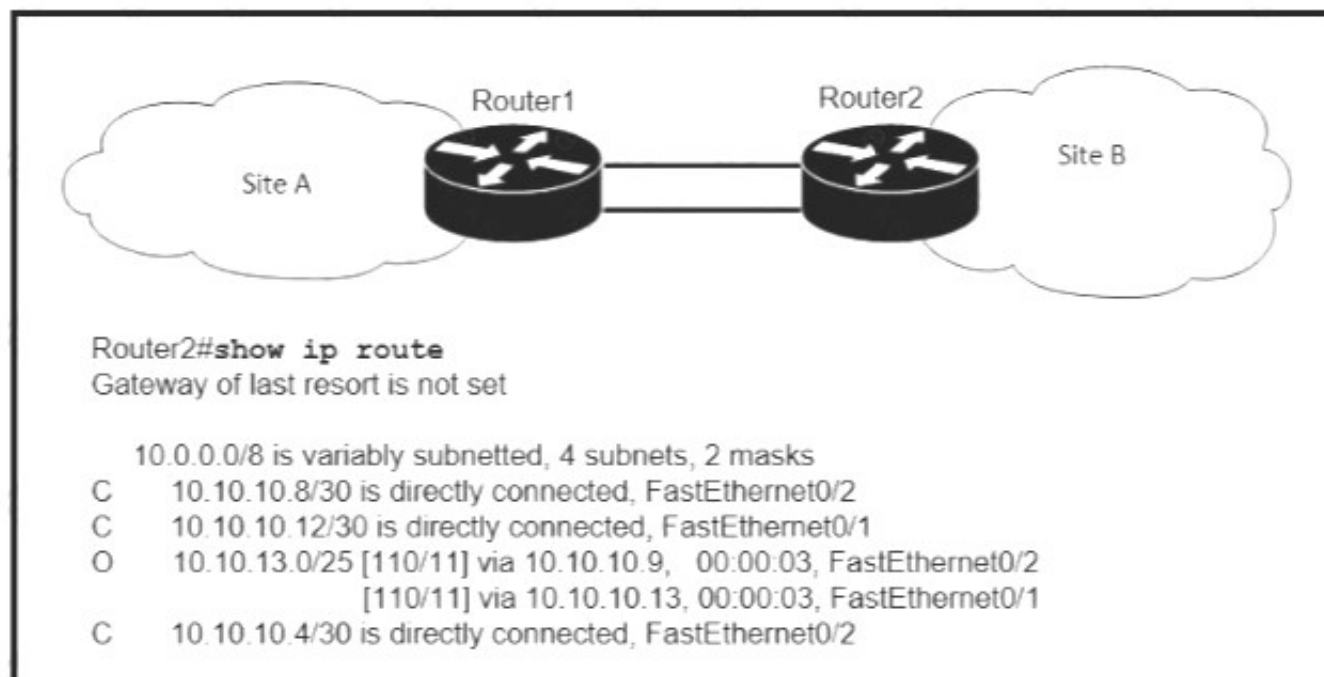
What does router R1 use as its OSPF router-ID?

A. 10.10.1.10
B. 10.10.10.20
C. 172.16.15.10
D. 192.168.0.1

Answer: B

NEW QUESTION 74
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 77
When a site-to-site VPN is used, which protocol is responsible for the transport of user data?

A. IKEv2
B. IKEv1
C. IPsec

D. MD5

Answer: C

NEW QUESTION 80
Drag drop the descriptions from the left onto the correct configuration-management technologies on the right.

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 81
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. adminstrative distance
C. metric

D. as-path

Answer: C

NEW QUESTION 83
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 86
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
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 93
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 94
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