100% VALID DUMPS


```
SW2
vtp domain cisco
vtp mode transparent
vtp password ciscotest
interface fastethernet0/1
   description connection to sw1
   switchport mode trunk
   switchport trunk encapsulation dot1q
```

Refer to the exhibit. How does SW2 interact with other switches in this VTP domain?

- It transmits and processes VTP updates from any VTP clients on the network on its trunk ports.
- It receives updates from all VTP servers and forwards all locally configured VLANs out all trunk ports.
- It forwards only the VTP advertisements that it receives on its trunk ports.
- It processes VTP updates from any VTP clients on the network on its access ports.

```
R1# show ip route
....
D          172.16.32.0/27 [90/2888597172]  via 20.1.1.1
O          172.16.32.0/19  [110/292094]    via 20.1.1.10
R          172.16.32.0/24  [120/2]  via 20.1.1.3
```

Refer to the exhibit. Router R1 is running three different routing protocols. Which route characteristic is used by the router to forward the packet that it receives for destination IP 172.16.32.1?

- administrative distance
- metric
- cost
- longest prefix

Which IPv6 address block forwards packets to a multicast address rather than a unicast address?

- 2000::/3
- FC00::/7
- FE80::/10
- FF00::/12

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100% VALID DUMPS

How do AAA operations compare regarding user identification, user services, and access control?

- Authorization provides access control, and authentication tracks user services.
- Authentication identifies users, and accounting tracks user services.
- Authorization identifies users, and authentication provides access control.
- Accounting tracks user services, and authentication provides access control.

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

- [ ] increased network security
- [ ] reduced hardware footprint
- [ ] fewer network failures
- [x] faster changes with more reliable results
- [x] reduced operational costs

An engineer requires a switch interface to actively attempt to establish a trunk link with a neighbor switch. What command must be configured?

- **switchport nonegotiate**
- **switchport mode dynamic auto**
- **switchport mode trunk**
- **switchport mode dynamic desirable**

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100% VALID DUMPS

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

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

What is a function of TFTP in network operations?

- transfers files between file systems on a router
- transfers a backup configuration file from a server to a switch using a username and password
- transfers a configuration files from a server to a router on a congested link
- transfers IOS images from a server to a router for firmware upgrades

A device detects two stations transmitting frames at the same time. This condition occurs after the first 64 bytes of the frame is received. Which interface counter increments?

- CRC
- runt
- late collision
- collision

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Which action must be taken to assign a global unicast IPv6 address on an interface that is derived from the MAC address of that interface?

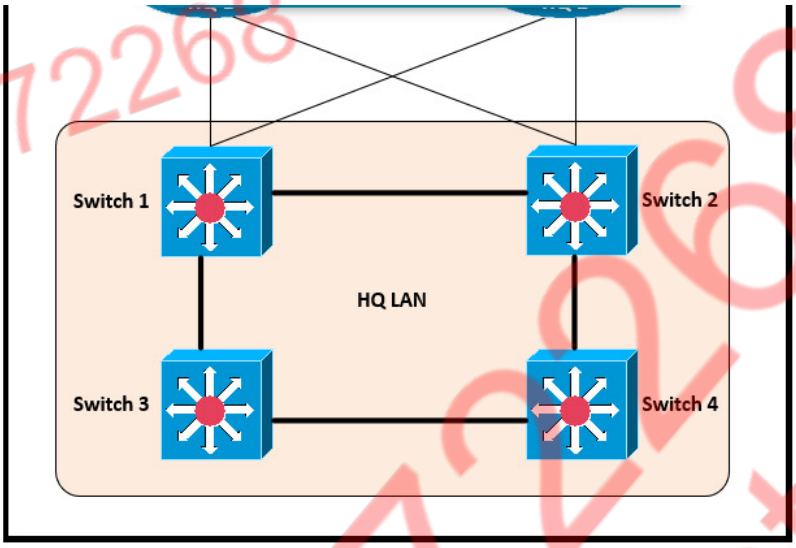
- configure a stateful DHCPv6 server on the network
- enable SLAAC on an interface
- disable the EUI-64 bit process
- explicitly assign a link-local address

Which WPA3 enhancement protects against hackers viewing traffic on the Wi-Fi network?

- SAE encryption
- AES encryption
- scrambled encryption key
- TKIP encryption

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Refer to the exhibit. After the election process, what is the root bridge in the HQ LAN?

Switch 1: 0C:E0:38:61:72:58
Switch 2: 0C:0E:15:22:1A:61
Switch 3: 0C:0E:15:1D:3C:9A
Switch 4: 0C:E0:19:A1:4D:16

- Switch 1
- Switch 2
- Switch 3
- Switch 4

An office has 8 floors with approximately 30-40 users per floor. Only one subnet should be used. Which command must be configured on the router Switched Virtual Interface to use address space efficiently?

- **ip address 192.168.0.0 255.255.0.0**
- **ip address 192.168.0.0 255.255.254.0**
- **ip address 192.168.0.0 255.255.255.128**
- **ip address 192.168.0.0 255.255.255.224**

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100% VALID DUMPS

A network engineer must create a diagram of a multivendor network. Which command must be configured on the Cisco devices so that the topology of the network is allowed to be mapped?

- Device(config)#**lldp run**
- Device(config)#**cdp run**
- Device(config-if)#**cdp enable**
- Device(config)#**flow-sampler-map topology**

Which protocol prompts the Wireless LAN Controller to generate its own local web administration SSL certificate for GUI access?

- RADIUS
- TACACS+
- HTTP
- HTTPS

Which criteria is used first during the root port selection process?

- lowest path cost to the root bridge
- local port ID
- lowest neighbor's port ID
- lowest neighbor's bridge ID

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100% VALID DUMPS

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

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

Which output displays a JSON data representation?

- [ ]
```
{
  "response", {
    "taskId", {};
    "url", "string"
  };
  "version", "string"
}
```

- [ ]
```
{
  "response": {
    "taskId": {};
    "url": "string"
  };
  "version": "string"
}
```

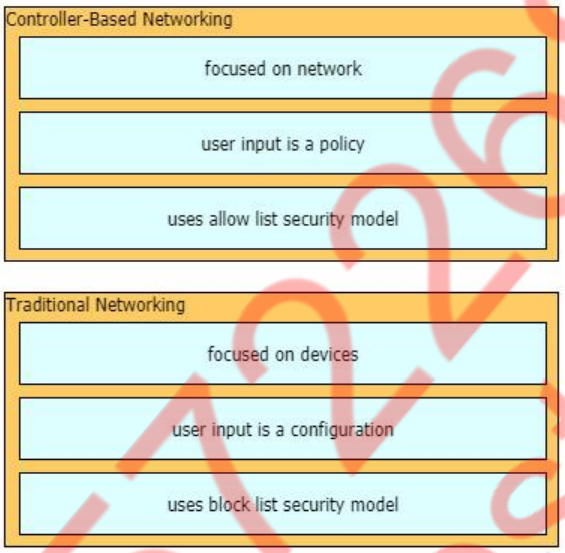
- [x]
```
{
  "response": {
    "taskId": {},
    "url": "string"
  },
  "version": "string"
}
```

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

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100% VALID DUMPS

Drag and drop the characteristics of networking from the left onto the networking types on the right.



An engineer is configuring NAT to translate the source subnet of 10.10.0.0/24 to any one of three addresses: 192.168.3.1, 192.168.3.2, or 192.168.3.3. Which configuration should be used?

- enable
  configure terminal
  ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
  route-map permit 10.10.0.0 255.255.255.0
  ip nat outside destination list 1 pool mypool
  interface g1/1
  ip nat inside
  interface g1/2
  ip nat outside

- enable
  configure terminal
  ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
  access-list 1 permit 10.10.0.0 0.0.0.254
  ip nat inside source list 1 pool mypool
  interface g1/1
  ip nat inside
  interface g1/2
  ip nat outside

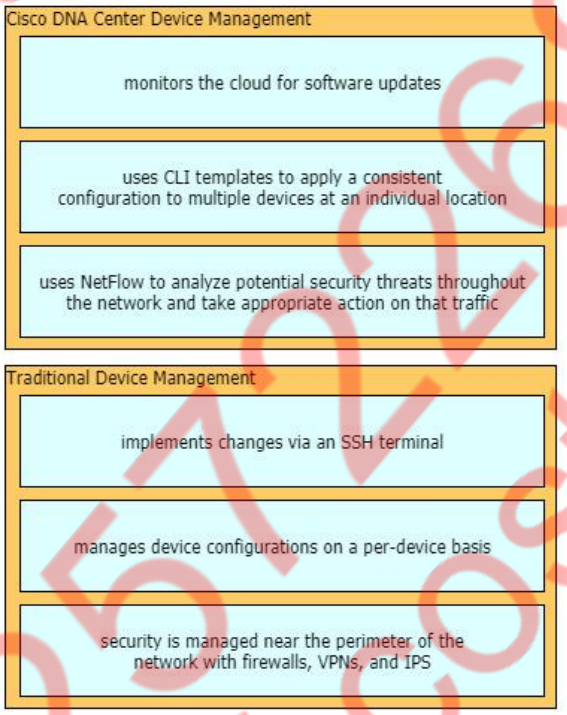
- enable
  configure terminal
  ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
  access-list 1 permit 10.10.0.0 0.0.0.255
  ip nat outside destination list 1 pool mypool
  interface g1/1
  ip nat inside
  interface g1/2
  ip nat outside

- **enable**
  configure terminal
  ip nat pool mypool 192.168.3.1 192.168.3.3 prefix-length 30
  access-list 1 permit 10.10.0.0 0.0.0.255
  ip nat inside source list 1 pool mypool
  interface g1/1
  ip nat inside
  interface g1/2

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Drag and drop the descriptions of device management from the left onto the types of device management on the right.



What is the primary function of a Layer 3 device?

- to pass traffic between different networks
- to forward traffic within the same broadcast domain
- (•) to transmit wireless traffic between hosts
- to analyze traffic and drop unauthorized traffic from the Internet

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100% VALID DUMPS

In which two ways does a password manager reduce the chance of a hacker stealing a user's password? (Choose two.)

- [ ] It automatically provides a second authentication factor that is unknown to the original user.
- [ ] It uses an internal firewall to protect the password repository from unauthorized access.
- [x] It encourages users to create stronger passwords.
- [x] It protects against keystroke logging on a compromised device or web site.
- [ ] It stores the password repository on the local workstation with built-in antivirus and anti-malware functionality.

Which event has occurred if a router sends a notice level message to a syslog server?

- (•) An interface line has changed status.
- ( ) A TCP connection has been torn down.
- ( ) An ICMP connection has been built.
- ( ) A certificate has expired.

What is a difference between RADIUS and TACACS+?

- ( ) RADIUS logs all commands that are entered by the administrator, but TACACS+ logs only start, stop, and interim commands.
- (•) TACACS+ separates authentication and authorization, and RADIUS merges them.
- ( ) TACACS+ encrypts only password information, and RADIUS encrypts the entire payload.
- ( ) RADIUS is most appropriate for dial authentication, but TACACS+ is also used for multiple types of authentication.

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100% VALID DUMPS


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

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

- mode on
- passive
- auto
- active

An engineer must configure interswitch VLAN communication between a Cisco switch and a third-party switch. Which action should be taken?

- configure DSCP
- configure IEEE 802.1q
- configure ISL
- configure IEEE 802.1p

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Which configuration management mechanism uses TCP port 22 by default when communicating with managed nodes?

- Ansible
- Chef
- Puppet
- Python

Which state does the switch port move to when PortFast is enabled?

- listening
- blocking
- learning
- forwarding

In software defined architectures, which plane is distributed and responsible for traffic forwarding?

- data plane
- policy plane
- management plane
- control plane

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100% VALID DUMPS

How will Link Aggregation be implemented on a Cisco Wireless LAN Controller?

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

An engineer needs to configure LLDP to send the port description time length value (TLV). Which command sequence must be implemented?

- switch(config-if)#**lldp port-description**
- switch(config-line)#**lldp port-description**
- switch#**lldp port-description**
- (selected) switch(config)#**lldp port-description**

Which benefit does controller-based networking provide versus traditional networking?

- moves from a two-tier to a three-tier network architecture to provide maximum redundancy
- combines control and data plane functionality on a single device to minimize latency
- (selected) allows configuration and monitoring of the network from one centralized point
- provides an added layer of security to protect from DDoS attacks

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100% VALID DUMPS

Which CRUD operation modifies an existing table or view?

- create
- replace
- update
- read

How does CAPWAP communicate between an access point in local mode and a WLC?

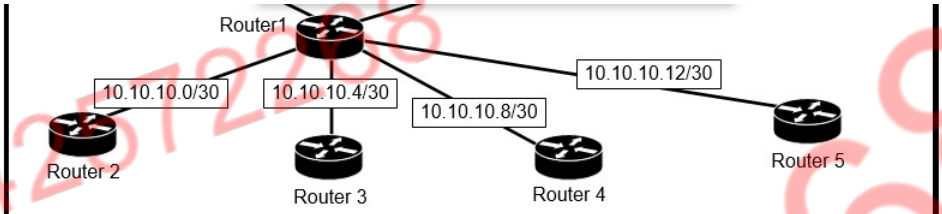
- The access point must directly connect to the WLC using a copper cable.
- The access point has the ability to link to any switch in the network, assuming connectivity to the WLC.
- The access point must not be connected to the wired network, as it would create a loop.
- The access point must be connected to the same switch as the WLC.

What provides centralized control of authentication and roaming in an enterprise network?

- a LAN switch
- a lightweight access point
- a firewall
- a wireless LAN controller

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100% VALID DUMPS




```
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, 10 subnets, 4 masks
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 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.144/28 [110/2] via 10.10.10.9, 00:01:57, GigabitEthernet0/2
O       10.10.13.160/29 [110/2] via 10.10.10.5, 00:00:12, GigabitEthernet0/1
O       10.10.13.208/29 [110/2] via 10.10.10.13, 00:01:57, GigabitEthernet0/3
S*   0.0.0.0/0 [1/0] via 10.10.11.2
```

Refer to the exhibit. To which device does Router1 send packets that are destined to host 10.10.13.165?

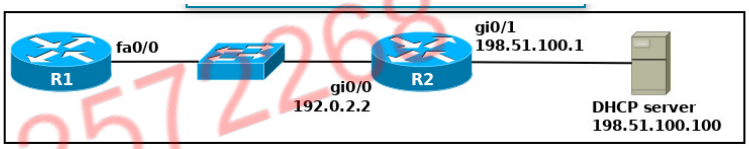
- Router2
- Router3
- Router4
- Router5

Which goal is achieved by the implementation of private IPv4 addressing on a network?

- provides a reduction in size of the forwarding table on network routers
- allows communication across the Internet to other private networks
- allows servers and workstations to communicate across public network boundaries
- provides an added level of protection against Internet exposure

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Refer to the exhibit. An engineer deploys a topology in which R1 obtains its IP configuration from DHCP. If the switch and DHCP server configurations are complete and correct, which two sets of commands must be configured on R1 and R2 to complete the task? (Choose two.)

- [ ] R1(config)# **interface fa0/0**
  R1(config-if)# **ip helper-address 198.51.100.100**
- [ ] R2(config)# **interface gi0/0**
  R2(config-if)# **ip helper-address 198.51.100.100**
- [ ] R1(config)# **interface fa0/0**
  R1(config-if)# **ip helper-address 192.0.2.2**
- [x] R1(config)# **interface fa0/0**
  R1(config-if)# **ip address dhcp**
  R1(config-if)# **no shutdown**
- [x] R2(config)# **interface gi0/0**
  R2(config-if)# **ip address dhcp**

By default, how does EIGRP determine the metric of a route for the routing table?

- (•) It uses the bandwidth and delay values of the path to calculate the route metric.
- ( ) It uses a default metric of 10 for all routes that are learned by the router.
- ( ) It counts the number of hops between the receiving and destination routers and uses that value as the metric.
- ( ) It uses a reference bandwidth and the actual bandwidth of the connected link to calculate the route metric.

What are two functions of a server on a network? (Choose two.)

- [ ] runs the same operating system in order to communicate with other servers
- [ ] handles requests from multiple workstations at the same time
- [x] runs applications that send and retrieve data for workstations that make requests
- [x] achieves redundancy by exclusively using virtual server clustering
- [ ] housed solely in a data center that is dedicated to a single client

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100% VALID DUMPS

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

- Exchange
- 2-way
- Init
- Full

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

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

A user configured OSPF and advertised the Gigabit Ethernet interface in OSPF. By default, to which type of OSPF network does this interface belong?

- broadcast
- nonbroadcast
- point-to-point
- point-to-multipoint

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100% VALID DUMPS

What occurs to frames during the process of frame flooding?

- (•) Frames are sent to every port on the switch in the same VLAN except from the originating port.
- ( ) Frames are sent to all ports, including those that are assigned to other VLANs.
- ( ) Frames are sent to every port on the switch that has a matching entry in the MAC address table.
- ( ) Frames are sent to every port on the switch in the same VLAN.

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?

- ( ) 20
- (•) 90
- ( ) 110
- ( ) 115

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

- [ ] IP address of one or more access points
- [x] SSID
- [x] profile name
- [ ] management interface settings
- [ ] QoS settings

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100% VALID DUMPS


```
interface GigabitEthernet0/1
ip address 192.168.1.2 255.255.255.0
ip access-group 2699 in
!
access-list 2699 deny icmp any 10.10.1.0 0.0.0.255 echo
access-list 2699 deny ip any 10.20.1.0 0.0.0.255
access-list 2699 permit ip any 10.10.1.0 0.0.0.255
access-list 2699 permit tcp any 10.20.1.0 0.0.0.127 eq 22
```

Refer to the exhibit. A network administrator must permit SSH access to remotely manage routers in a network. The operations team resides on the 10.20.1.0/25 network. Which command will accomplish this task?

- access-list 2699 permit udp 10.20.1.0 0.0.0.255
- **no access-list 2699 deny tcp any 10.20.1.0 0.0.0.127 eq 22**
- access-list 2699 permit tcp any 10.20.1.0 0.0.0.255 eq 22
- no access-list 2699 deny ip any 10.20.1.0 0.0.0.255

```
Switch#show etherchannel summary
[output omitted]

Group  Port-channel  Protocol    Ports
------+-------------+-----------+-----------------------
10     Po10(SU)         LACP      Gi0/0(P)    Gi0/1(P)
20     Po20(SU)         LACP      Gi0/2(P)    Gi0/3(P)
```

Refer to the exhibit. Which two commands when used together create port channel 10? (Choose two.)

- [x] **int range g0/0-1**
  channel-group 10 mode active
- [ ] **int range g0/0-1**
  channel-group 10 mode desirable
- [x] **int range g0/0-1**
  channel-group 10 mode passive
- [ ] **int range g0/0-1**
  channel-group 10 mode auto
- [ ] **int range g0/0-1**
  channel-group 10 mode on

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100% VALID DUMPS


```
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
```

Refer to the exhibit. With which metric was the route to host 172.16.0.202 learned?

- 0
- 110
- 38443
- 3184439

A port security violation has occurred on a switch port due to the maximum MAC address count being exceeded. Which command must be configured to increment the security-violation count and forward an SNMP trap?

- **switchport port-security violation access**
- **switchport port-security violation protect**
- **switchport port-security violation restrict**
- **switchport port-security violation shutdown**

A wireless administrator has configured a WLAN; however, the clients need access to a less congested 5-GHz network for their voice quality. Which action must be taken to meet the requirement?

- enable DTIM
- enable Band Select
- enable AAA override
- enable RX-SOP

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100% VALID DUMPS


```
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
```

Refer to the exhibit. 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?

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

What is the primary purpose of a First Hop Redundancy Protocol?

- (•) It reduces routing failures by allowing more than one router to represent itself as the default gateway of a network.
- It allows a router to use bridge priorities to create multiple loop-free paths to a single destination.
- It reduces routing failures by allowing Layer 3 load balancing between OSPF neighbors that have the same link metric.
- It allows directly connected neighbors to share configuration information.

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

- [x] ASCII
- [ ] binary
- [x] hexadecimal
- [ ] base64
- [ ] decimal

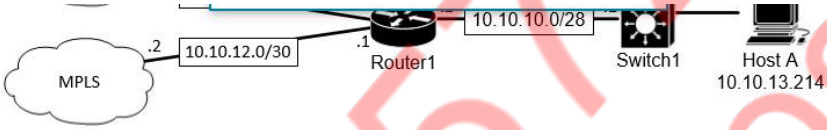
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100% VALID DUMPS


```
interface GigabitEthernet3/1/4
 switchport voice vlan 50
!
```

Refer to the exhibit. An administrator is tasked with configuring a voice VLAN. What is the expected outcome when a Cisco phone is connected to the GigabitEthernet3/1/4 port on a switch?

- [x] The phone sends and receives data in VLAN 50, but a workstation connected to the phone sends and receives data in VLAN 1.
- [ ] The phone and a workstation that is connected to the phone do not have VLAN connectivity.
- [ ] The phone and a workstation that is connected to the phone send and receive data in VLAN 50.
- [ ] The phone sends and receives data in VLAN 50, but a workstation connected to the phone has no VLAN connectivity.




```
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
```

Refer to the exhibit. Which prefix does Router1 use for traffic to Host A?

- [ ] 10.10.10.0/28
- [ ] 10.10.13.0/25
- [ ] 10.10.13.144/28
- [x] 10.10.13.208/29

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100% VALID DUMPS

What is the expected outcome when an EUI-64 address is generated?

- The interface ID is configured as a random 64-bit value.
- The seventh bit of the original MAC address of the interface is inverted.
- The MAC address of the interface is used as the interface ID without modification.
- The characters FE80 are inserted at the beginning of the MAC address of the interface.

What are two recommendations for protecting network ports from being exploited when located in an office space outside of an IT closet? (Choose two.)

- [ ] configure ports to a fixed speed
- [ ] enable the PortFast feature on ports
- [x] shut down unused ports
- [x] implement port-based authentication
- [ ] configure static ARP entries

What are two fundamentals of virtualization? (Choose two.)

- [x] It allows logical network devices to move traffic between virtual machines and the rest of the physical network.
- [ ] It allows a physical router to directly connect NICs from each virtual machine into the network.
- [ ] It requires that some servers, virtual machines, and network gear reside on the Internet.
- [ ] The environment must be configured with one hypervisor that serves solely as a network manager to monitor SNMP traffic.
- [x] It allows multiple operating systems and applications to run independently on one physical server.

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100% VALID DUMPS

Which 802.11 frame type is Association Response?

- action
- management
- protected frame
- control

Which command must be entered when a device is configured as an NTP server?

- **ntp master**
- **ntp server**
- **ntp peer**
- **ntp authenticate**

When a WPA2-PSK WLAN is configured in the Wireless LAN Controller, what is the minimum number of characters that is required in ASCII format?

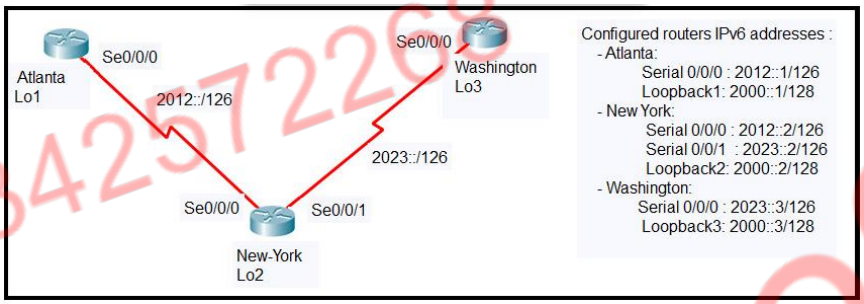
- 6
- 8
- 12
- 18

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

- It only supports auto-discovery of network elements in a greenfield deployment.
- It omits support for high availability of management functions when operating in cluster mode.
- Its modular design allows the implementation of different versions to meet the specific needs of an organization.
- It abstracts policy from the actual device configuration.

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100% VALID DUMPS



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 Se0/0/0 interfaces on the Atlanta and Washington routers reach one another? (Choose two.)

- [ ] Configure the **ipv6 route 2012::/126 s0/0/0** command on the Atlanta router.
- [ ] Configure the **ipv6 route 2023::/126 2012::1** command on the Atlanta router.
- [x] Configure the **ipv6 route 2023::/126 2012::2** command on the Atlanta router.
- [ ] Configure the **ipv6 route 2012::/126 2023::1** command on the Washington router.
- [x] Configure the **ipv6 route 2012::/126 2023::2** command on the Washington router.

A corporate office uses four floors in a building.

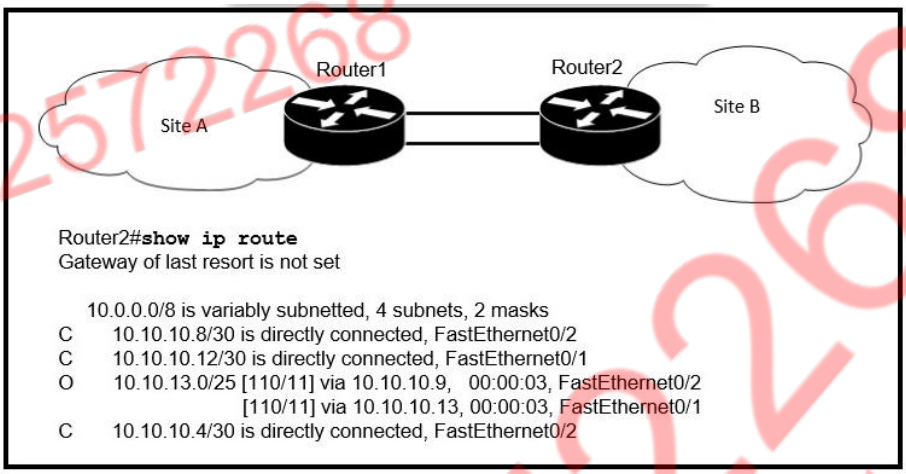
- Floor 1 has 24 users.
- Floor 2 has 29 users.
- Floor 3 has 28 users.
- Floor 4 has 22 users.

Which subnet summarizes and gives the most efficient distribution of IP addresses for the router configuration?

- ○ 192.168.0.0/24 as summary and 192.168.0.0/28 for each floor
- ◉ 192.168.0.0/25 as summary and 192.168.0.0/27 for each floor
- ○ 192.168.0.0/23 as summary and 192.168.0.0/25 for each floor
- ○ 192.168.0.0/26 as summary and 192.168.0.0/29 for each floor

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100% VALID DUMPS




```
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
```

Refer to the exhibit. If OSPF is running on this network, how does Router2 handle traffic from Site B to 10.10.13.128/25 at Site A?

- It sends packets out of interface Fa0/2.
- It sends packets out of interface Fa0/1.
- It load-balances traffic out of Fa0/1 and Fa0/2.
- It is unreachable and discards the traffic.

R1 has learned route 10.10.10.0/24 via numerous routing protocols. Which route is installed?

- route with the next hop that has the highest IP
- route with the lowest cost
- route with the shortest prefix length
- route with the lowest administrative distance

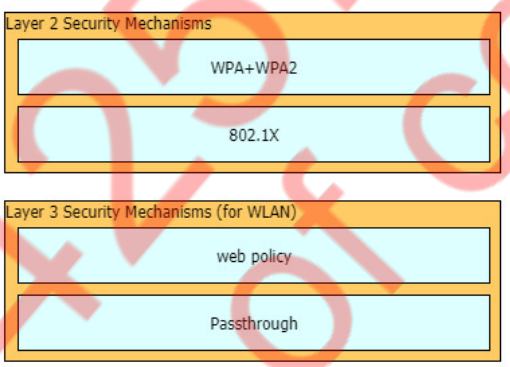
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100% VALID DUMPS

Which type of IPv6 address is publicly routable in the same way as IPv4 public addresses?

- multicast
- unique local
- link-local
- global unicast

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

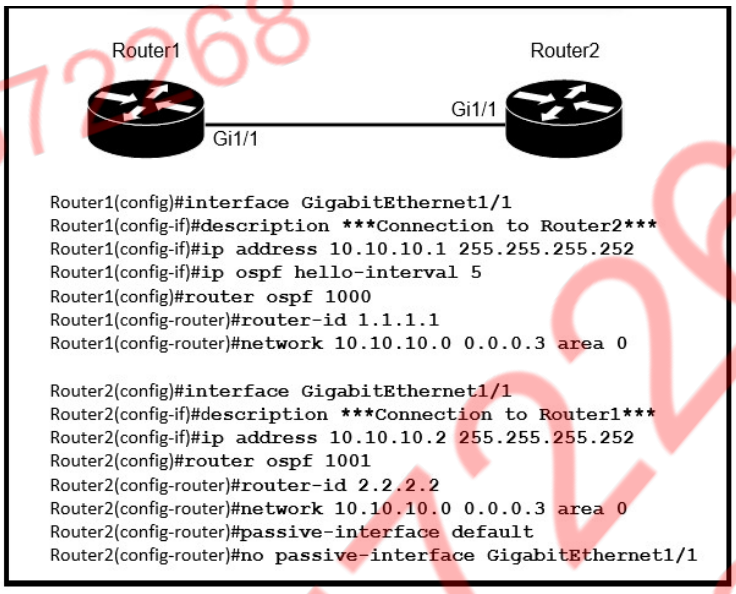


How do TCP and UDP differ in the way they guarantee packet delivery?

- TCP uses two-dimensional parity checks, checksums, and cyclic redundancy checks, and UDP uses retransmissions only.
- TCP uses checksum, parity checks, and retransmissions, and UDP uses acknowledgements only.
- TCP uses checksum, acknowledgements, and retransmissions, and UDP uses checksums only.
- TCP uses retransmissions, acknowledgement, and parity checks, and UDP uses cyclic redundancy checks only.

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100% VALID DUMPS




```
Router1(config)#interface GigabitEthernet1/1
Router1(config-if)#description ***Connection to Router2***
Router1(config-if)#ip address 10.10.10.1 255.255.255.252
Router1(config-if)#ip ospf hello-interval 5
Router1(config)#router ospf 1000
Router1(config-router)#router-id 1.1.1.1
Router1(config-router)#network 10.10.10.0 0.0.0.3 area 0

Router2(config)#interface GigabitEthernet1/1
Router2(config-if)#description ***Connection to Router1***
Router2(config-if)#ip address 10.10.10.2 255.255.255.252
Router2(config)#router ospf 1001
Router2(config-router)#router-id 2.2.2.2
Router2(config-router)#network 10.10.10.0 0.0.0.3 area 0
Router2(config-router)#passive-interface default
Router2(config-router)#no passive-interface GigabitEthernet1/1
```

Refer to the exhibit. After the configuration is applied, the two routers fail to establish an OSPF neighbor relationship. What is the reason for the problem?

- The OSPF router IDs are mismatched.
- The network statement on Router1 is misconfigured.
- The OSPF process IDs are mismatched.
- Router2 is using the default hello timer.

```
R1# show ip route
D       192.168.10.0/24   [90/2679326]   via 192.168.1.1
R       192.168.10.0/27   [120/3]    via 192.168.1.2
O       192.168.10.0/23   [110/2]    via 192.168.1.3
i  L1   192.168.10.0/13   [115/30]    via 192.168.1.4
```

Refer to the exhibit. How does router R1 handle traffic to 192.168.10.16?

- It selects the IS-IS route because it has the shortest prefix inclusive of the destination address.
- It selects the OSPF route because it has the lowest cost.
- It selects the RIP route because it has the longest prefix inclusive of the destination address.
- It selects the EIGRP route because it has the lowest administrative distance.

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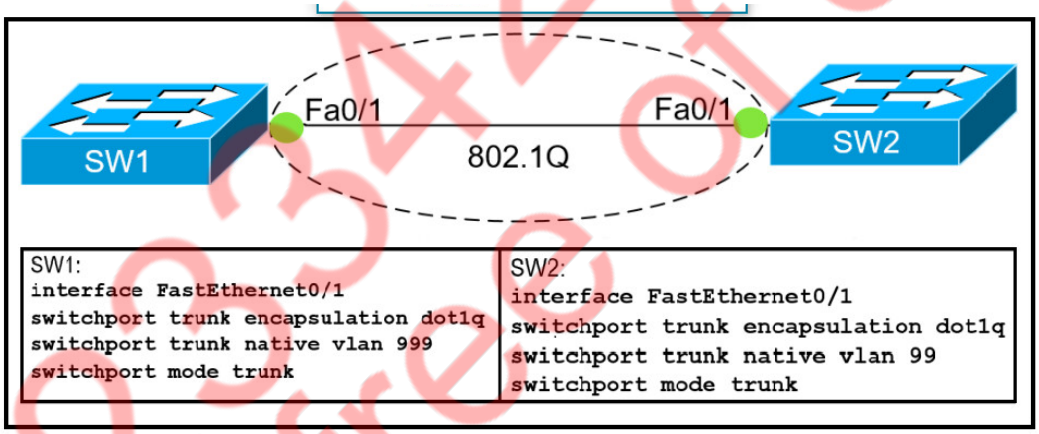
100% VALID DUMPS

What is the same for both copper and fiber interfaces when using SFP modules?

- (•) They provide minimal interruption to services by being hot-swappable.
- ( ) They offer reliable bandwidth up to 100 Mbps in half duplex mode.
- ( ) They support an inline optical attenuator to enhance signal strength.
- ( ) They accommodate single-mode and multi-mode in a single module.

Which software-defined architecture plane assists network devices with making packet-forwarding decisions by providing Layer 2 reachability and Layer 3 routing information?

- ( ) data plane
- (•) control plane
- ( ) policy plane
- ( ) management plane



Refer to the exhibit. Which action do the switches take on the trunk link?

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

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100% VALID DUMPS

What is a recommended approach to avoid co-channel congestion while installing access points that use the 2.4 GHz frequency?

- [x] one overlapping channel
- [ ] one nonoverlapping channel
- [ ] different overlapping channels
- [ ] different nonoverlapping channels

What is a difference between local AP mode and FlexConnect AP mode?

- [ ] FlexConnect AP mode fails to function if the AP loses connectivity with the WLC.
- [ ] FlexConnect AP mode bridges the traffic from the AP to the WLC when local switching is configured.
- [x] Local AP mode creates two CAPWAP tunnels per AP to the WLC.
- [ ] Local AP mode causes the AP to behave as if it were an autonomous AP.

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

Refer to the exhibit. What is the effect of this configuration?

- [ ] The switch port remains administratively down until the interface is connected to another switch.
- [ ] The switch port remains down until it is configured to trust or untrust incoming packets.
- [ ] Dynamic ARP Inspection is disabled because the ARP ACL is missing.
- [x] The switch port interface trust state becomes untrusted.

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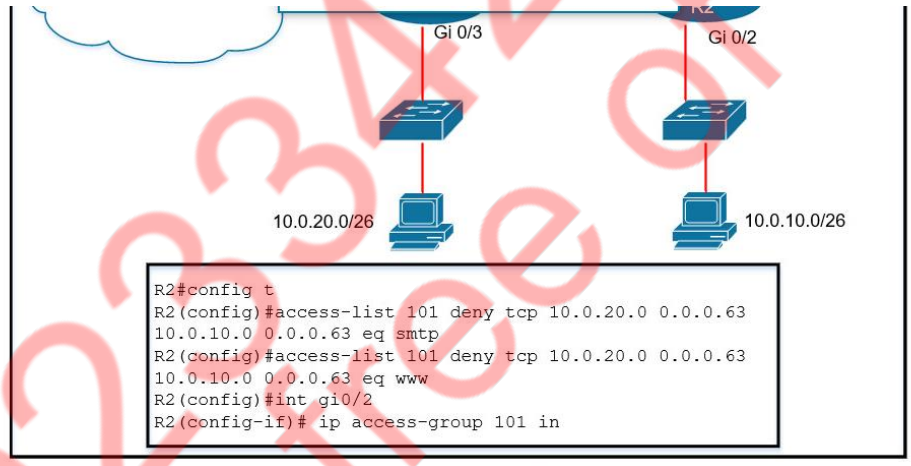
100% VALID DUMPS

What is a function of a remote access VPN?

- establishes a secure tunnel between two branch sites
- used exclusively when a user is connected to a company's internal network
- allows the users to access company internal network resources through a secure tunnel
- uses cryptographic tunneling to protect the privacy of data for multiple users simultaneously

Which function is performed by the collapsed core layer in a two-tier architecture?

- attaching users to the edge of the network
- enforcing routing policies
- marking interesting traffic for data policies
- applying security policies



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.)

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

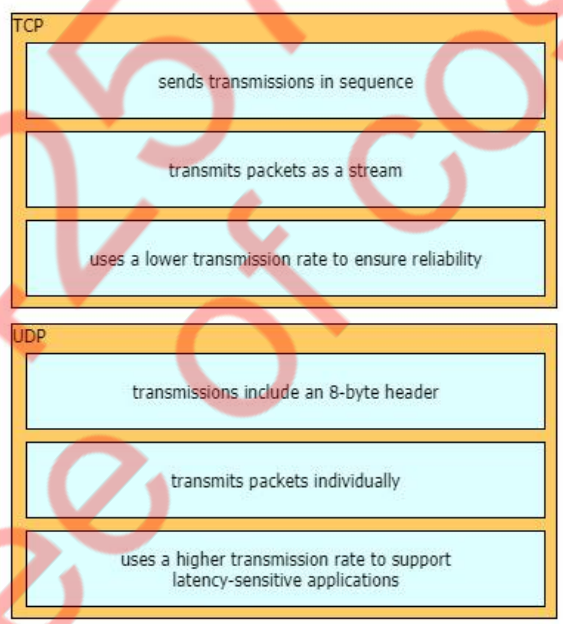
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100% VALID DUMPS

What is the purpose of traffic shaping?

- to limit the bandwidth that a flow can use
- to provide fair queuing for buffered flows
- to be a marking mechanism that identifies different flows
- to mitigate delays over slow links

Drag and drop the descriptions of IP protocol transmissions from the left onto the IP traffic types on the right.



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100% VALID DUMPS


```
!
interface GigabitEthernet1/0
 mtu 1600
 ip address 192.168.0.1 255.255.255.252
 negotiation auto
!
router ospf 1
 router-id 1.1.1.1
 passive-interface default
 no passive-interface GigabitEthernet1/0
 network 192.168.0.1 0.0.0.0 area 0
!
R2#show running-config
Building configuration...
!
interface GigabitEthernet2/0
 ip address 192.168.0.2 255.255.255.252
 negotiation auto
!
router ospf 1
 router-id 2.2.2.2
 passive-interface default
 no passive-interface GigabitEthernet2/0
 network 192.168.0.2 0.0.0.0 area 0
```

Refer to the exhibit. Which configuration issue is preventing the OSPF neighbor relationship from being established between the two routers?

- R1 has an incorrect **network** command for interface Gi1/0.
- R2 should have its **network** command in area 1.
- R1 interface Gi1/0 has a larger MTU size.
- R2 is using the **passive-interface default** command.

The **service password-encryption** command is entered on a router. What is the effect of this configuration?

- protects the VLAN database from unauthorized PC connections on the switch
- prevents network administrators from configuring clear-text passwords
- restricts unauthorized users from viewing clear-text passwords in the running configuration
- encrypts the password exchange when a VPN tunnel is established

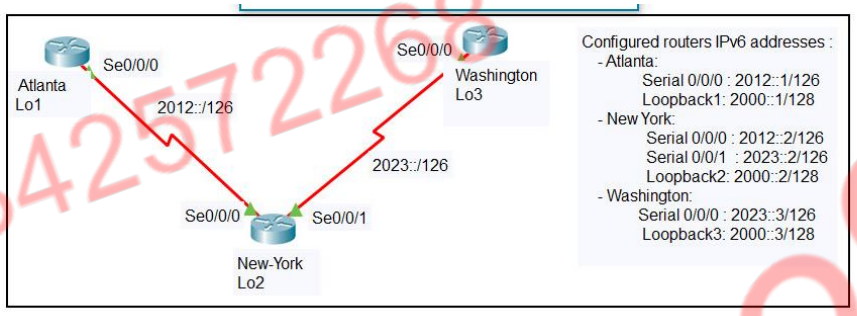
---

An engineer must configure an OSPF neighbor relationship between router R1 and R3. The authentication configuration has been configured and the connecting interfaces are in the same 192.168.1.0/30 subnet. What are the next two steps to complete the configuration? (Choose two.)

- [x] configure the hello and dead timers to match on both sides
- [ ] configure the same process ID for the router OSPF process
- [ ] configure the same router ID on both routing processes
- [ ] configure the interfaces as OSPF active on both sides
- [x] configure both interfaces with the same area ID

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100% VALID DUMPS



Refer to the exhibit. An engineer configured the New York router with static routes that point to the Atlanta and Washington sites. Which command must be configured on the Atlanta and Washington routers so that both sites are able to reach the loopback2 interface on the New York router?

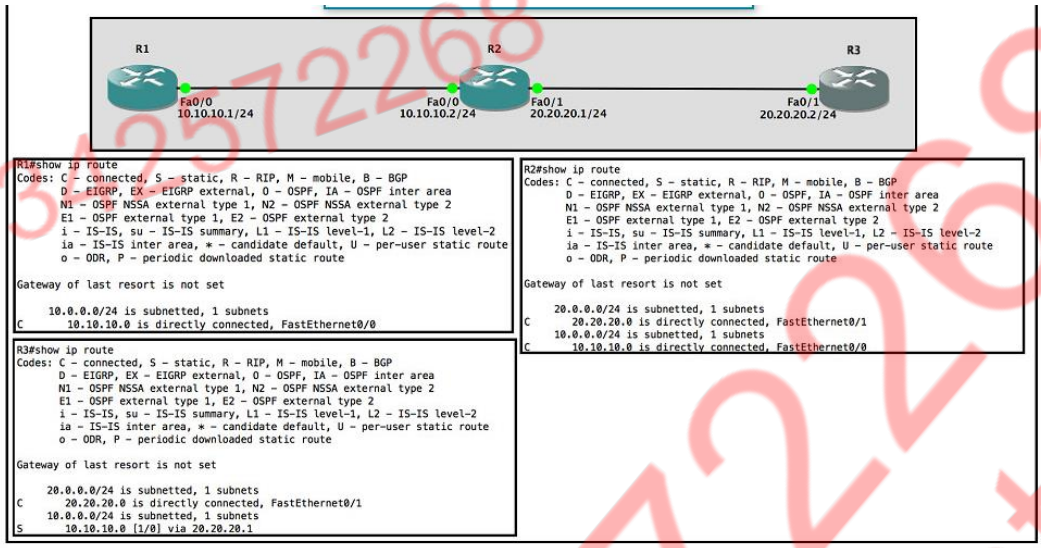
- ipv6 route 0/0 Serial 0/0/0
- ipv6 route ::/0 2000::2
- ip route 0.0.0.0 0.0.0.0 Serial 0/0/0
- ipv6 route ::/0 Serial 0/0/0
- ipv6 route ::/0 Serial 0/0/1

Which two functions are performed by the core layer in a three-tier architecture? (Choose two.)

- [ ] Provide uninterrupted forwarding service.
- [x] Inspect packets for malicious activity.
- [x] Ensure timely data transfer between layers.
- [ ] Provide direct connectivity for end user devices.
- [ ] Police traffic that is sent to the edge of the network.

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100% VALID DUMPS



Refer to the exhibit. Router R1 Fa0/0 is unable to ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

- set the default network as 20.20.20.0/24
- configure a static route with Fa0/1 as the egress interface to reach the 20.20.20.0/24 network
- configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network
- set the default gateway as 20.20.20.2

```
Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route

Gateway of last resort is 209.165.202.131 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 209.165.202.131
      209.165.200.0/27 is subnetted, 1 subnets
S        209.165.200.224 [254/0] via 209.165.202.129
      209.165.201.0/27 is subnetted, 1 subnets
S        209.165.201.0 [1/0] via 209.165.202.130
```

Refer to the exhibit. Which command configures a floating static route to provide a backup to the primary link?

- ip route 0.0.0.0 0.0.0.0 209.165.202.131
- ip route 209.165.201.0 255.255.255.224 209.165.202.130
- ip route 0.0.0.0 0.0.0.0 209.165.200.224
- ip route 209.165.200.224 255.255.255.224 209.165.202.129 254

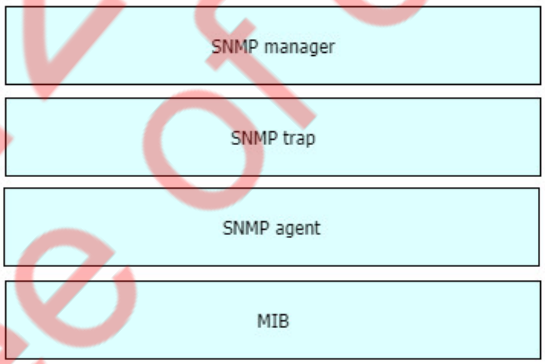
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100% VALID DUMPS

What are two roles of Domain Name Services (DNS)? (Choose two.)

- [ ] builds a flat structure of DNS names for more efficient IP operations
- [x] allows a single host name to be shared across more than one IP address
- [ ] improves security by protecting IP addresses under Fully Qualified Domain Names (FQDNs)
- [x] enables applications to identify resources by name instead of IP address
- [ ] encrypts network traffic as it travels across a WAN by default

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



When using Rapid PVST+, which command guarantees the switch is always the root bridge for VLAN 200?

- **spanning-tree vlan 200 priority 614440**
- **spanning-tree vlan 200 priority 38617258**
- **spanning-tree vlan 200 priority 0**
- **spanning-tree vlan 200 root primary**

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100% VALID DUMPS

Which two conditions must be met before SSH operates normally on a Cisco IOS switch? (Choose two.)

- [x] The switch must be running a k9 (crypto) IOS image.
- [ ] Telnet must be disabled on the switch.
- [ ] IP routing must be enabled on the switch.
- [ ] A console password must be configured on the switch.
- [x] The **ip domain-name** command must be configured on the switch.

```
R1# sh ip ospf int gig0/0
Gig0/0 is up, line protocol is up
  Internet Address 10.201.24.8/28, Area 1, Attached via Network Statement
  Process ID 100, Router ID 192.168.1.1, Network Type BROADCAST, Cost: 1
  Topology-MTID    Cost    Disabled    Shutdown      Topology Name
        0           1          no          no            Base
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 192.168.1.1, Interface address 10.201.24.8
  No backup designated router on this network
  Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    oob-resync timeout 40
    Hello due in 00:00:07

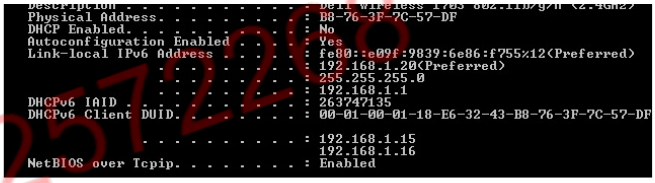
R2#sh ip ospf int gig0/0
gig0/0 is up, line protocol is up
  Internet Address 10.201.24.1/28, Area 1
  Process ID 100, Router ID 172.16.1.1, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DR, Priority 1
  Designated Router (ID) 172.16.1.1, Interface address 10.201.24.1
  No backup designated router on this network
  Timer intervals configured, Hello 20, Dead 80, Wait 80, Retransmit 5
```

Refer to the exhibit. Which action establishes the OSPF neighbor relationship without forming an adjacency?

- ( ) modify priority
- (•) modify hello interval
- ( ) modify process ID
- ( ) modify network type

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100% VALID DUMPS



Refer to the exhibit. An engineer is required to verify that the network parameters are valid for the users wireless LAN connectivity on a /24 subnet. Drag and drop the values from the left onto the network parameters on the right. Not all values are used.

192.168.1.255

192.168.1.1

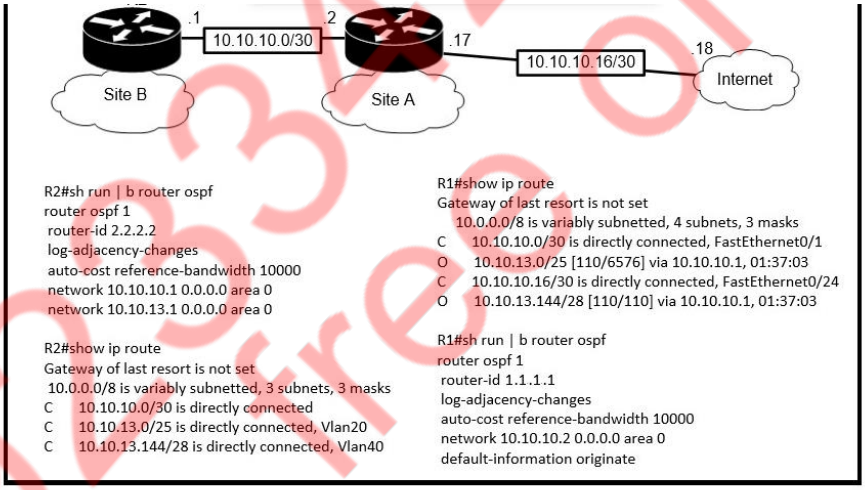
192.168.1.20

192.168.1.254

B8-76-3F-7C-57-DF

1A-76-3F-7C-57-DF

192.168.1.0



Refer to the exhibit. The **default-information originate** command is configured under the R1 OSPF configuration. After testing, workstations on VLAN 20 at Site B are unable to reach a DNS server on the Internet. Which action corrects the configuration issue?

- Configure the **ip route 0.0.0.0 0.0.0.0 10.10.10.2** command on R2.
- Add the **always** keyword to the **default-information originate** command on R1.
- Configure the **ip route 0.0.0.0 0.0.0.0 10.10.10.18** command on R1.
- Add the **default-information originate** command on R2.

100% VALID DUMPS

A packet is destined for 10.10.1.22. Which static route does the router choose to forward the packet?

- [x] ip route 10.10.1.20 255.255.255.252 10.10.255.1
- [ ] ip route 10.10.1.20 255.255.255.254 10.10.255.1
- [ ] ip route 10.10.1.0 255.255.255.240 10.10.255.1
- [ ] ip route 10.10.1.16 255.255.255.252 10.10.255.1

What are two reasons that cause late collisions to increment on an Ethernet interface? (Choose two.)

- [x] when the cable length limits are exceeded
- [ ] when Carrier Sense Multiple Access/Collision Detection is used
- [ ] when the sending device waits 15 seconds before sending the frame again
- [x] when one side of the connection is configured for half-duplex
- [ ] when a collision occurs after the 32nd byte of a frame has been transmitted

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100% VALID DUMPS


```
Switch(config)#hostname R1
R1(config)#interface FastEthernet0/1
R1(config-if)#no switchport
R1(config-if)#ip address 10.100.20.42 255.255.255.0
R1(config-if)#line vty 0 4
R1(config-line)#login
```

Refer to the exhibit. An engineer booted a new switch and applied this configuration via the console port. Which additional configuration must be applied to allow administrators to authenticate directly to global configuration mode via Telnet using a local username and password?

- R1(config)#**username admin**
  R1(config-if)#**line vty 0 4**
  R1(config-line)#**password p@ss1234**
- R1(config)#**username admin**
  R1(config-if)#**line vty 0 4**
  R1(config-line)#**password p@ss1234**
  R1(config-line)#**transport input telnet**
- R1(config)#**username admin secret p@ss1234**
  R1(config-if)#**line vty 0 4**
  R1(config-line)#**login local**
  R1(config)#**enable secret p@ss1234**
- R1(config)#**username admin privilege 15 secret p@ss1234**
  R1(config-if)#**line vty 0 4**
  R1(config-line)#**login local**

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