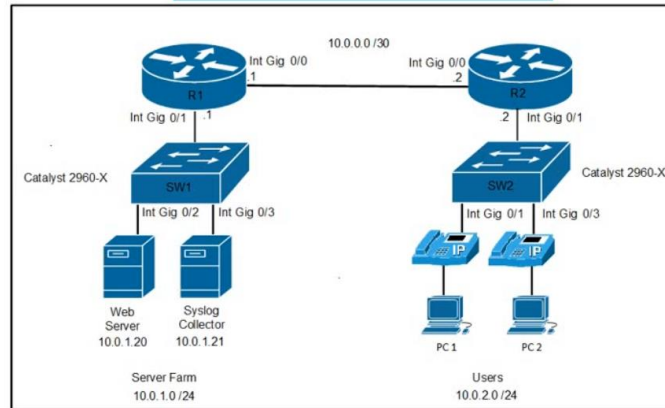


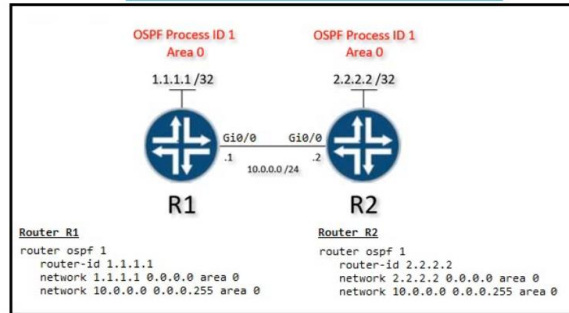
Taken on 2nd Sep



Refer to the exhibit. An engineer is troubleshooting a latency issue and must identify the top sources of traffic to network 10.0.1.0/24. Which two commands or command sets are needed to collect and view the traffic statistics? (Choose two.)

- R1(config)#**logging host 10.0.1.21**
- R1(config)#**ip flow-export version 9**
R1(config)#**ip flow-export destination 10.0.1.21 9995**
R1(config)#**interface gigabitEthernet 0/1**
R1(config-if)#**ip flow ingress**
R1(config-if)#**ip flow egress**
- R2#**show ip traffic**
- R1#**show ip cache flow**
- R1(config)#**snmp-server enable traps**
R1(config)#**snmp-server host 10.0.1.21 traps version 3**

Taken on 2nd Sep



Refer to the exhibit. A network engineer is configuring OSPF between router R1 and router R2. The engineer must ensure that a DR/BDR election does not occur on the Gigabit Ethernet interfaces in area 0. Which configuration set accomplishes this goal?

R1(config-if)interface Gi0/0
R1(config-if)ip ospf network point-to-point

R2(config-if)interface Gi0/0
R2(config-if)ip ospf network point-to-point

R1(config-if)interface Gi0/0
R1(config-if)ip ospf priority 1

R2(config-if)interface Gi0/0
R2(config-if)ip ospf priority 1

R1(config-if)interface Gi0/0
R1(config-if)ip ospf network broadcast

R2(config-if)interface Gi0/0
R2(config-if)ip ospf network broadcast

R1(config-if)interface Gi0/0
R1(config-if)ip ospf database-filter all out

R2(config-if)interface Gi0/0
R2(config-if)ip ospf database-filter all out

Taken on 2nd Sep

```
with manager.connect(host=192.168.0.1, port=22,  
username='admin', password='password1', hostkey_verify=True,  
device_params={'name':'nexus'}) as m:
```

Refer to the exhibit. What does the snippet of code achieve?

- It creates a temporary connection to a Cisco Nexus device and retrieves a token to be used for API calls.
- It opens an ncclient connection to a Cisco Nexus device and maintains it for the duration of the context.
- It opens a tunnel and encapsulates the login information, if the host key is correct.
- It creates an SSH connection using the SSH key that is stored, and the password is ignored.

```
SW1#sh monitor session all  
Session 1  
-----  
Type                : Remote Destination Session  
Source RSPAN VLAN   : 50  
  
Session 2  
-----  
Type                : Local Session  
Source Ports        :  
  Both              : Fa0/14  
Destination Ports   : Fa0/15  
Encapsulation       : Native  
Ingress             : Disables
```

Refer to the exhibit. An engineer configures monitoring on SW1 and enters the **show** command to verify operation. What does the output confirm?

- RSPAN session 1 is incompletely configured for monitoring.
- SPAN session 2 monitors all traffic entering and exiting port FastEthernet 0/15.
- RSPAN session 1 monitors activity on VLAN 50 of a remote switch.
- SPAN session 2 only monitors egress traffic exiting port FastEthernet 0/14.

```
Name is Bob Johnson  
Age is 75  
Is alive  
  
Favorite foods are:  
• Cereal  
• Mustard  
• Onions
```

Refer to the exhibit. What is the JSON syntax that is formed from the data?

- {Name: Bob Johnson, Age: 75, Alive: true, Favorite Foods: [Cereal, Mustard, Onions]}
- {"Name": "Bob Johnson", "Age": Seventyfive, "Alive": true, "Favorite Foods": ["Cereal", "Mustard", "Onions"]}
- {"Name": "Bob Johnson", "Age": 75, "Alive": true, "Favorite Foods": ["Cereal", "Mustard", "Onions"]}
- {'Name': 'Bob Johnson', 'Age': 75, 'Alive': True, 'Favorite Foods': 'Cereal', 'Mustard', 'Onions'}

Taken on 2nd Sep

Which two threats does AMP4E have the ability to block? (Choose two.)

- ransomware
- Microsoft Word macro attack
- SQL injection
- email phishing
- DDoS

What does Call Admission Control require the client to send in order to reserve the bandwidth?

- Wi-Fi multimedia
- traffic specification
- VoIP media session awareness
- SIP flow information

When voice services are deployed over a wireless environment, which service must be disabled to ensure the quality of calls?

- Fastlane
- priority queuing
- dynamic transmit power control
- aggressive load balancing

Taken on 2nd Sep

Which OSPF network types are compatible and allow communication through the two peering devices?

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

Which characteristic distinguishes Ansible from Chef?

- Ansible uses Ruby to manage configurations. Chef uses YAML to manage configurations.
- The Ansible server can run on Linux, Unix or Windows. The Chef server must run on Linux or Unix.
- Ansible lacks redundancy support for the primary server. Chef runs two primary servers in active/active mode.
- Ansible pushes the configuration to the client. Chef client pulls the configuration from the server.

An engineer must configure the strongest password authentication to locally authenticate on a router. Which configuration must be used?

- `username netadmin secret 5 1b1Ju$kZbBS1Pyh4QzwXyZ1kSZ2`
- `username netadmin secret 1b1Ju$k404901385QzwXyZ1kSZ2`
- `line Console 0`
`password 1b1Ju$`
- `username netadmin secret 9 9vFpMf8elb4RVV8$seZ/bDax1uV`

```
Extended IP access list EGRESS
10 permit ip 10.0.0.0 0.0.0.255 any
|
<Output Omitted>
|
interface GigabitEthernet0/0
ip address 209.165.200.225 255.255.255.0
ip access-group EGRESS out
duplex auto
speed auto
media-type rj45
|
```

Refer to the exhibit. An engineer must block all traffic from a router to its directly connected subnet 209.165.200.0/24. The engineer applies access control list EGRESS in the outbound direction on the GigabitEthernet0/0 interface of the router. However, the router can still ping hosts on the 209.165.200.0/24 subnet. What explains this behavior?

- The access control list must contain an explicit deny to block traffic from the router.
- Only standard access control lists can block traffic from a source IP address.
- After an access control list is applied to an interface, that interface must be shut and no shut for the access control list to take effect.
- Access control lists that are applied outbound to a router interface do not affect traffic that is sourced from the router.

Taken on 2nd Sep

What is the primary responsibility of the vBond orchestrator?

- to configure NAT communication on WAN Edge routers
- to provide configuration synchronization of all WAN Edge devices
- to facilitate start-up by performing authentication and authorization of all elements into the network
- to provide centralized management and provisioning of all elements into the network

Which technology provides a secure communication channel for all traffic at Layer 2 of the OSI model?

- IPsec
- SSL
- Cisco TrustSec
- MACsec

Drag and drop the descriptions from the left onto the routing protocol they describe on the right.

OSPF	summaries can be created in specific parts of the IGP topology
	uses areas to segment a network
EIGRP	summaries can be created anywhere in the IGP topology

Which two actions, when applied in the LAN network segment, will facilitate Layer 3 CAPWAP discovery for lightweight AP? (Choose two.)

- Enable port security on the switch port.
- Utilize DHCP option 43.
- Configure WLC IP address on LAN switch.
- Utilize DHCP option 17.
- Configure an ip helper-address on the router interface.

Taken on 2nd Sep

When is an external antenna used inside a building?

- only when using 5 GHz
- only when using 2.4 GHz
- when it provides the required coverage
- only when using Mobility Express

```
<?xml version="1.0" encoding="utf-8"?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"/>
```

Refer to the exhibit. What does the error message relay to the administrator who is trying to configure a Cisco IOS device?

- A NETCONF request was made for a data model that does not exist.
- A NETCONF message with valid content based on the YANG data models was made, but the request failed.
- The NETCONF running datastore is currently locked.
- The device received a valid NETCONF request and serviced it without error.

Which solution do IaaS service providers use to extend a Layer 2 segment across a Layer 3 network?

- VLAN
- VTEP
- VXLAN
- VRF

What is an advantage of utilizing data models in a multivendor environment?

- facilitating a unified approach to configuration and management
- improving communication security with binary-encoded protocols
- removing the distinction between configuration and runtime state data
- lowering CPU load incurred to managed devices

Taken on 2nd Sep

```
configure terminal
ip flow-export destination 192.168.10.1 9991
ip flow-export version 9
```

Refer to the exhibit. What is required to configure a second export destination for IP address 192.168.10.1?

- Specify a different flow ID.
- Configure a version 5 flow-export to the same destination.
- Specify a VRF.
- Specify a different UDP port.
- Specify a different TCP port.

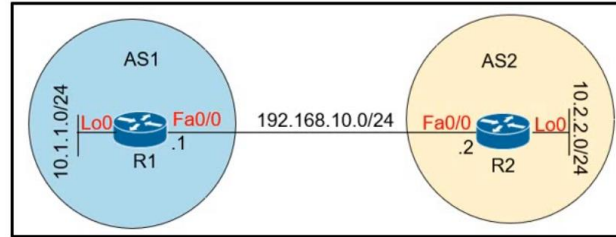
Which measure is used by an NTP server to indicate its closeness to the authoritative time source?

- time zone
- latency
- stratum
- hop count

Which two components are supported by LISP? (Choose two.)

- proxy ETR
- egress tunnel router
- route reflector
- HMAC algorithm
- spoke

Taken on 2nd Sep



Refer to the exhibit. Which configuration establishes EBGP neighborship between these two directly connected neighbors and exchanges the loopback network of the two routers through BGP?

- R1(config)#router bgp 1
R1(config-router)#neighbor 192.168.10.2 remote-as 2
R1(config-router)#network 10.0.0.0 mask 255.0.0.0

R2(config)#router bgp 2
R2(config-router)#neighbor 192.168.10.1 remote-as 1
R2(config-router)#network 10.0.0.0 mask 255.0.0.0
- R1(config)#router bgp 1
R1(config-router)#neighbor 10.2.2.2 remote-as 2
R1(config-router)#neighbor 10.2.2.2 update-source lo0
R1(config-router)#network 10.1.1.0 mask 255.255.255.0

R2(config)#router bgp 2
R2(config-router)#neighbor 10.1.1.1 remote-as 1
R2(config-router)#neighbor 10.1.1.1 update-source lo0
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
- R1(config)#router bgp 1
R1(config-router)#neighbor 192.168.10.2 remote-as 2
R1(config-router)#network 10.1.1.0 mask 255.255.255.0

R2(config)#router bgp 2
R2(config-router)#neighbor 192.168.10.1 remote-as 1
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
- R1(config)#router bgp 1
R1(config-router)#neighbor 10.2.2.2 remote-as 2
R1(config-router)#network 10.1.1.0 mask 255.255.255.0

R2(config)#router bgp 2
R2(config-router)#neighbor 10.1.1.1 remote-as 1
R2(config-router)#network 10.2.2.0 mask 255.255.255.0

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Taken on 2nd Sep

```
{
  "response": [
    {
      "family": "Routers",
      "interfaceCount": "12",
      "lineCardCount": "9",
      "platformId": "ASR1001-X",
      "reachabilityFailureReason": "",
      "reachabilityStatus": "Reachable",
      "hostname": "RouterASR-1",
      "macAddress": "00:c8:8b:80:bb:00",
    },
    {
      "family": "Switches and Hubs",
      "interfaceCount": "41",
      "lineCardCount": "2",
      "platformId": "C9300-24UX",
      "reachabilityFailureReason": "",
      "reachabilityStatus": "Authentication Failed",
      "hostname": "cat9000-1",
      "macAddress": "f8:7b:20:67:62:80",
    },
    {
      "family": "Switches and Hubs",
      "interfaceCount": "59",
      "lineCardCount": "2",
      "platformId": "WS-C3850-48U-E",
      "reachabilityFailureReason": "",
      "reachabilityStatus": "Unreachable",
      "hostname": "cat3850-1",
      "macAddress": "cc:d8:c1:15:d2:80",
    }
  ],
  "version": "1.0"
}
```

What does the Cisco DNA REST response indicate?

- Cisco DNA Center has the incorrect credentials for cat3850-1
- Cisco DNA Center is unable to communicate with cat9000-1
- Cisco DNA Center has the incorrect credentials for cat9000-1
- Cisco DNA Center has the incorrect credentials for RouterASR-1

Taken on 2nd Sep

When using TLS for syslog, which configuration allows for secure and reliable transportation of messages to its default port?

- logging host 10.2.3.4 vrf mgmt transport udp port 6514
- logging host 10.2.3.4 vrf mgmt transport tcp port 514
- logging host 10.2.3.4 vrf mgmt transport udp port 514
- logging host 10.2.3.4 vrf mgmt transport tcp port 6514

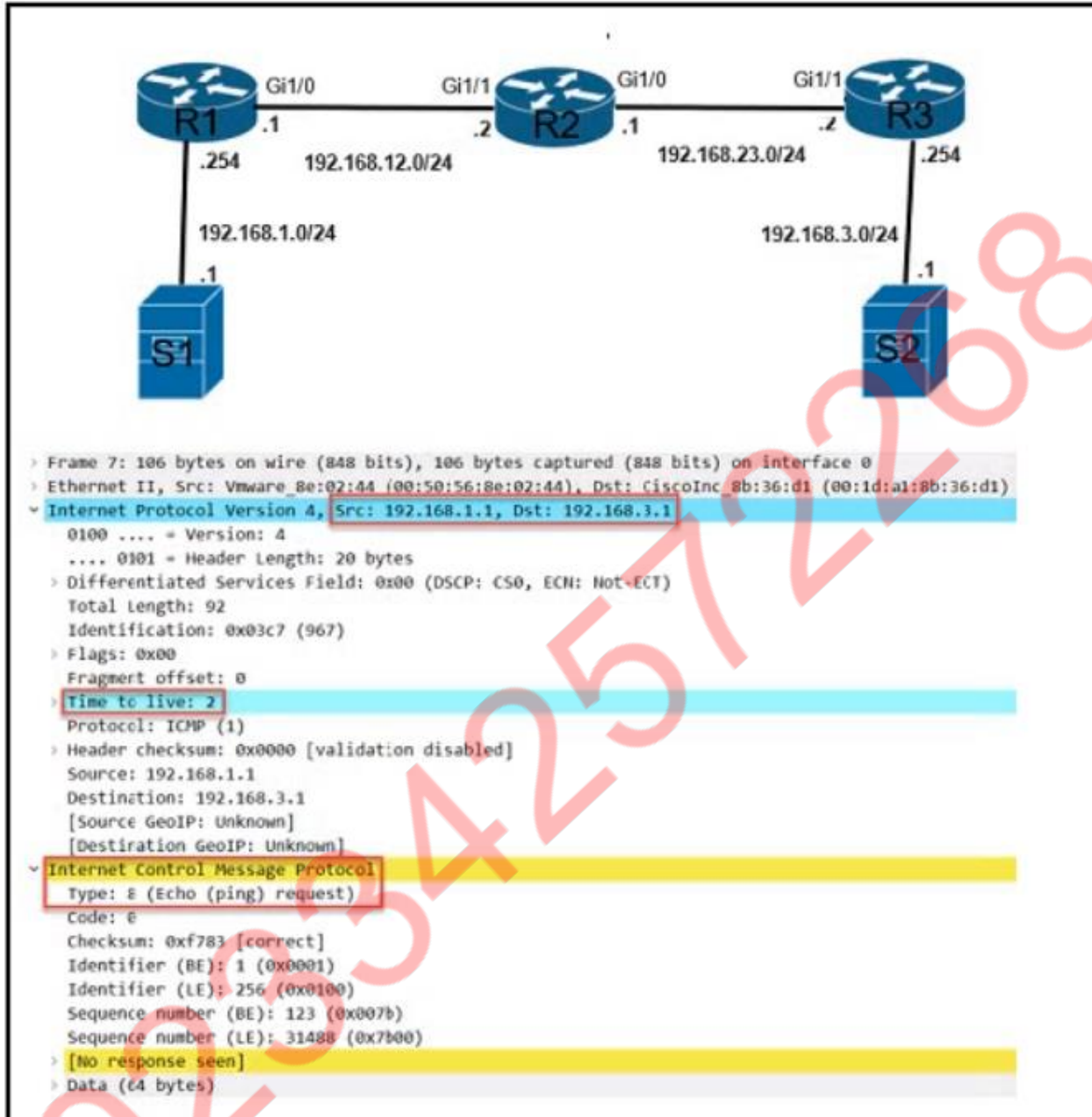
Which devices does Cisco DNA Center configure when deploying an IP-based access control policy?

- all devices integrating with ISE
- selected individual devices
- all devices in selected sites
- all wired devices

Which benefit is offered by a cloud infrastructure deployment but is lacking in an on-premises deployment?

- efficient scalability
- storage capacity
- virtualization
- supported systems

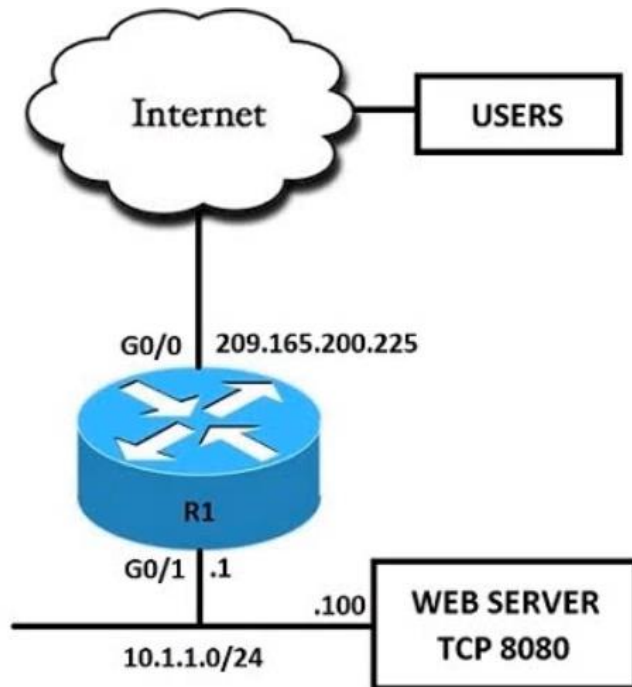
Taken on 2nd Sep



Refer to the exhibit. While troubleshooting a routing issue, an engineer issues a ping from S1 to S2. Which two actions result from the initial value of the TTL? (Choose two.)

- R3 replies with a TTL exceeded message.
- The packet reaches R3, and the TTL expires.
- The packet reaches R1, and the TTL expires.
- The packet reaches R2, and the TTL expires.
- R1 replies with a TTL exceeded message.
- R2 replies with a TTL exceeded message.

Taken on 2nd Sep



Refer to the exhibit. External users require HTTP connectivity to an internal company web server that is listening on TCP port 8080. Which command set accomplishes this requirement?

- interface G0/0
ip address 209.165.200.225 255.255.255.224
ip nat outside

interface G0/1
ip address 10.1.1.1 255.255.255.0
ip nat inside

ip nat inside source static tcp 209.165.200.225 8080 10.1.1.100 8080
- interface G0/0
ip address 209.165.200.225 255.255.255.224
ip nat inside

interface G0/1
ip address 10.1.1.1 255.255.255.0
ip nat outside

ip nat inside source static tcp 10.1.1.1 8080 209.165.200.225 80
- interface G0/0
ip address 209.165.200.225 255.255.255.224
ip nat outside

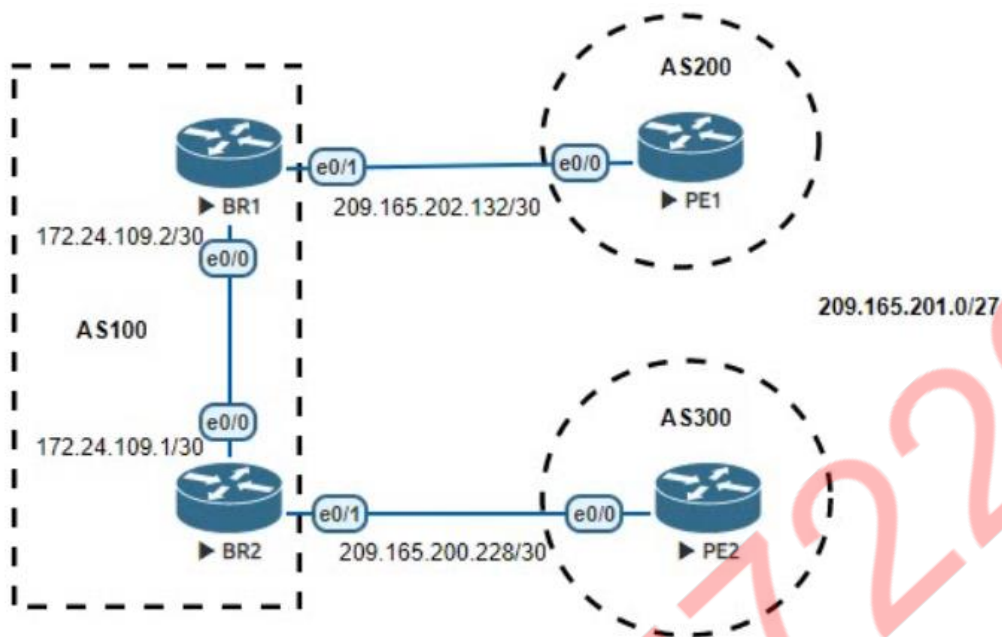
interface G0/1
ip address 10.1.1.1 255.255.255.0
ip nat inside

ip nat inside source static tcp 10.1.1.100 8080 interface G0/0 80
- interface G0/0
ip address 209.165.200.225 255.255.255.224
ip nat inside

interface G0/1
ip address 10.1.1.1 255.255.255.0
ip nat outside

ip nat inside source static tcp 209.165.200.225 80 10.1.1.100 8080

Taken on 2nd Sep



BR1
router bgp 100
neighbor 172.24.109.1 remote-as 100
neighbor 172.24.109.1 next-hop-self
neighbor 209.165.202.134 remote-as 200

BR2
router bgp 100
neighbor 172.24.109.2 remote-as 100
neighbor 172.24.109.2 next-hop-self
neighbor 209.165.200.230 remote-as 300

PE1
router bgp 200
bgp log-neighbor-changes
neighbor 209.165.202.133 remote-as 100

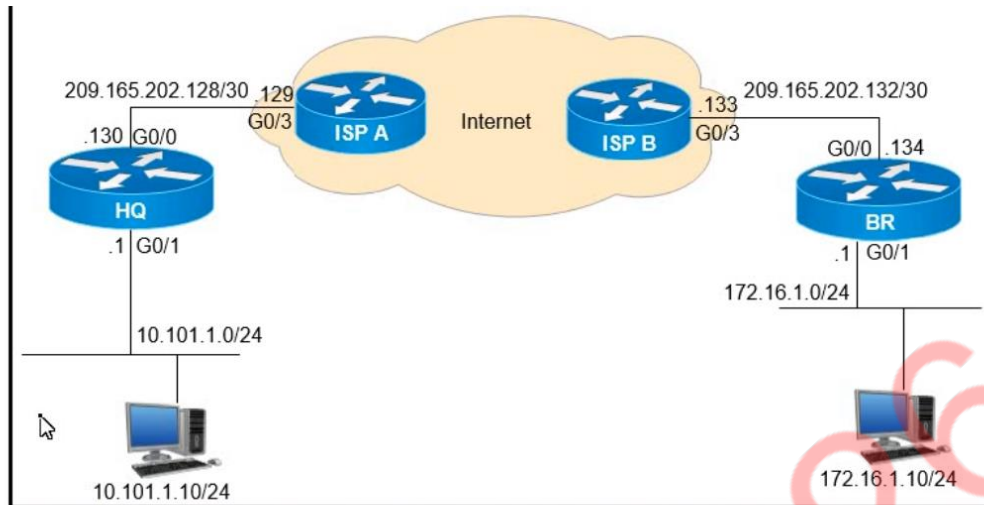
PE2
router bgp 300
bgp log-neighbor-changes
neighbor 209.165.200.229 remote-as 100

BR2#sh ip route | i 209.165.201.0
209.165.201.0/27 is subnetted, 1 subnets

Refer to the exhibit. Which configuration change will force BR2 to reach 209.165.201.0/27 via BR1?

- Set the MED to 1 on PE2 toward BR2 outbound.
- Set the origin to igp on BR2 toward PE2 inbound.
- Set the local preference to 150 on PE1 toward BR1 outbound.
- Set the weight attribute to 65,535 on BR1 toward PE1.

Taken on 2nd Sep

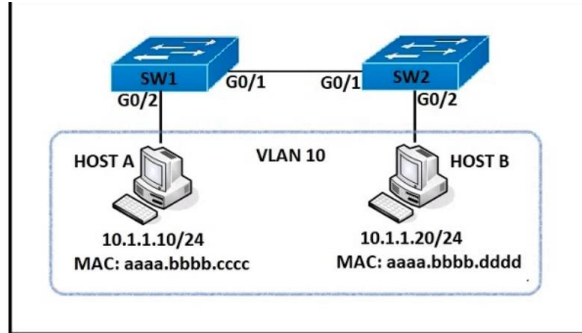


```
> Frame 24: 138 bytes on wire (1104 bits), 138 bytes captured (1104 bits) on interface 0
> Ethernet II, Src: 50:00:00:01:00:01 (50:00:00:01:00:01), Dst: 50:00:00:02:00:01 (50:00:00:02:00:01)
> Internet Protocol Version 4, Src: 209.165.202.130, Dst: 209.165.202.134
> Generic Routing Encapsulation (IP)
> Internet Protocol Version 4, Src: 10.111.111.1, Dst: 10.111.111.2
> Internet Control Message Protocol
```

Refer to the exhibit. A GRE tunnel has been created between HQ and BR routers. What is the tunnel IP on the HQ router?

- 10.111.111.1
- 10.111.111.2
- 209.165.202.130
- 209.165.202.134

Taken on 2nd Sep



Refer to the exhibit. An engineer must deny HTTP traffic from host A to host B while allowing all other communication between the hosts. Drag and drop the commands into the configuration to achieve these results. Some commands may be used more than once. Not all commands are used.

```
SW1(config)# ip access-list extended DENY-HTTP
SW1(config-ext-nacl)# permit tcp host 10.1.1.10 host 10.1.1.20 eq www

SW1(config)# ip access-list extended MATCH_ALL
SW1(config-ext-nacl)# permit ip any any

SW1(config)# vlan access-map HOST-A-B 10
SW1(config-access-map)# match ip address DENY-HTTP
SW1(config-access-map)# action drop

SW1(config)# vlan access-map HOST-A-B 20
SW1(config-access-map)# match ip address MATCH_ALL
SW1(config-access-map)# action forward

SW1(config)# vlan filter HOST-A-B vlan 10
```

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action drop

action forward


filter

permit

deny

match

Taken on 2nd Sep



```
London(config)#interface range fa0/1-2
London(config-if-range)#switchp trunk encapsulation dot1q
London(config-if-range)#switchp mode trunk
London(config-if-range)#channel-group 1 mode active
London(config-if-range)#end
London#
```

```
NewYork#show etherchannel summary
Flags: D - down          P - in port-channel
       I - stand-alone  s - suspended
       H - Hot-standby (LACP only)
       R - Layer3       S - Layer2
       U - in use       f - failed to allocate aggregator
       u - unsuitable for bundling
       w - waiting to be aggregated
       d - default port

Number of channel-groups in use: 1
Number of aggregators:          1
Group  Port-channel  Protocol    Ports
-----+-----+-----+-----
1      Po1(SD)          PAgP       Fa0/1(I) Fa0/2(D)

NewYork#
NewYork#show etherchannel port-channel
Channel-group listing:

Group: 1
-----
Port-channels in the group:

Port-channel: Po1
-----
Age of the Port-channel = 00d:00h:14m:20s
Logical slot/port = 2/1      Number of ports = 0
GC = 0x00000000      HotStandBy port = null
Port state = Port-channel |
Protocol = PAGP
Port Security = Disabled
```

Refer to the exhibit. Communication between London and New York is down. Which command set must be applied to the NewYork switch to resolve the issue?

- ```
NewYork(config)#no interface po1
NewYork(config)#interface range fa0/1-2
NewYork(config-if)#channel-group 1 mode auto
NewYork(config-if)#end
NewYork#
```
- ```
NewYork(config)#no interface po1
NewYork(config)#interface range fa0/1-2
NewYork(config-if)#channel-group 1 mode passive
NewYork(config-if)#end
NewYork#
```
- ```
NewYork(config)#no interface po1
NewYork(config)#interface range fa0/1-2
NewYork(config-if)#channel-group 1 mode negotiate
NewYork(config-if)#end
NewYork#
```
- ```
NewYork(config)#no interface po1
NewYork(config)#interface range fa0/1-2
NewYork(config-if)#channel-group 1 mode on
NewYork(config-if)#end
NewYork#
```

Taken on 2nd Sep

Which configuration restricts the amount of SSH traffic that a router accepts to 100 kbps?

```
class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
  !
policy-map CoPP_SSH
  class CoPP_SSH
  police cir 100000
  exceed-action drop
  !
  !
interface GigabitEthernet0/1
  ip address 209.165.200.225 255.255.255.0
  ip access-group EGRESS out
  service-policy input CoPP_SSH
  !
ip access-list extended CoPP_SSH
  permit tcp any any eq 22
```

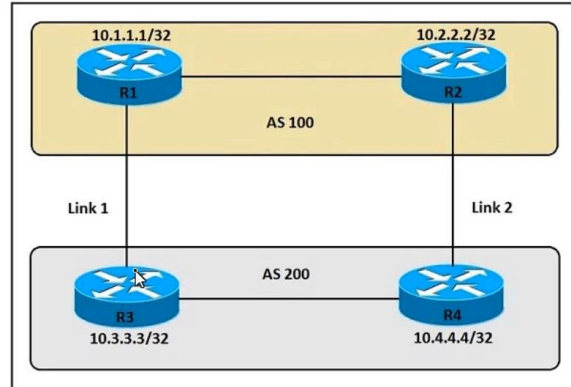
```
class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
  !
policy-map CoPP_SSH
  class CoPP_SSH
  police cir 100000
  exceed-action drop
  !
  !
interface GigabitEthernet0/1
  ip address 209.165.200.225 255.255.255.0
  ip access-group EGRESS out
  service-policy input CoPP_SSH
  !
ip access-list extended CoPP_SSH
```

```
ip access-list extended CoPP_SSH
  deny tcp any any eq 22
```

```
class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
  !
policy-map CoPP_SSH
  class CoPP_SSH
  police cir 100000
  exceed-action drop
  !
  !
control-plane
  service-policy input CoPP_SSH
  !
ip access-list extended CoPP_SSH
  permit tcp any any eq 22
```

```
class-map match-all CoPP_SSH
  match access-group name CoPP_SSH
  !
policy-map CoPP_SSH
  class CoPP_SSH
  police cir 100000
  exceed-action drop
  !
  !
control-plane transit
  service-policy input CoPP_SSH
  !
ip access-list extended CoPP_SSH
  permit tcp any any eq 22
```

Taken on 2nd Sep



Refer to the exhibit. An engineer must ensure that all traffic entering AS 200 from AS 100 chooses Link 2 as an entry point. Assume that all BGP neighbor relationships have been formed and that the attributes have not been changed on any of the routers. Which configuration accomplishes this task?

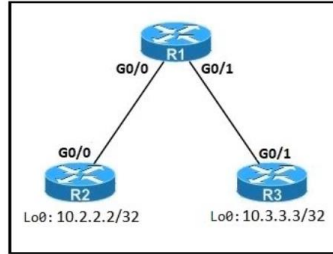
- R3(config)#route-map PREPEND permit 10
R3(config-route-map)#set as-path prepend 200 200 200

R3(config)#router bgp 200
R3(config-router)#neighbor 10.1.1.1 route-map PREPEND out
- R4(config)#route-map PREPEND permit 10
R4(config-route-map)#set as-path prepend 200 200 200

R4(config)#router bgp 200
R4(config-router)#neighbor 10.2.2.2 route-map PREPEND out
- R4(config)#route-map PREPEND permit 10
R4(config-route-map)#set as-path prepend 100 100 100

R4(config)#router bgp 200
R4(config-router)#neighbor 10.2.2.2 route-map PREPEND in
- R3(config)#route-map PREPEND permit 10
R3(config-route-map)#set as-path prepend 100 100 100
- R3(config)#router bgp 200
R3(config-router)#neighbor 10.1.1.1 route-map PREPEND in

Taken on 2nd Sep



Refer to the exhibit. An engineer must deny Telnet traffic from the loopback interface of router R3 to the loopback interface of router R2 during the weekend hours. All other traffic between the loopback interfaces of routers R3 and R2 must be allowed at all times. Which command set accomplishes this task?

- R3(config)#time-range WEEKEND
R3(config-time-range)#periodic Saturday Sunday 00:00 to 23:59

R3(config)#access-list 150 deny tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R3(config)#access-list 150 permit ip any any time-range WEEKEND

R3(config)#interface G0/1
R3(config-if)#ip access-group 150 out
- R3(config)#time-range WEEKEND
R3(config-time-range)#periodic weekend 00:00 to 23:59

R3(config)#access-list 150 permit tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R3(config)#access-list 150 permit ip any any time-range WEEKEND

R3(config)#interface G0/1
R3(config-if)#ip access-group 150 out
- R1(config)#time-range WEEKEND
R1(config-time-range)#periodic Friday Sunday 00:00 to 00:00

R1(config)#access-list 150 deny tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R1(config)#access-list 150 permit ip any any

R1(config)#interface G0/1
R1(config-if)#ip access-group 150 in
- R1(config)#time-range WEEKEND
R1(config-time-range)#periodic weekend 00:00 to 23:59

R1(config)#access-list 150 deny tcp host 10.3.3.3 host 10.2.2.2 eq 23 time-range WEEKEND
R1(config)#access-list 150 permit ip any any

R1(config)#interface G0/1
R1(config-if)#ip access-group 150 in

Taken on 2nd Sep

General **Security** **QoS** **Policy-Mapping** **Advanced**

Layer 2 **Layer 3** **AAA Servers**

Fast Transition

Fast Transition

Protected Management Frame

PMF Disabled ▾

WPA+WPA2 Parameters

WPA Policy

WPA2 Policy-AES

Authentication Key Management

802.1X Enable

CCKM Enable

PSK Enable

FT 802.1X Enable

FT PSK Enable

PSK Format ASCII ▾

.....

Refer to the exhibit. Based on the configuration in this WLAN security setting, which method can a client use to authenticate to the network?

- username and password
- certificate
- PSK
- RADIUS token

Taken on 2nd Sep

```
interface Vlan10
 ip vrf forwarding Clients
 ip address 192.168.1.1 255.255.255.0
!
interface Vlan20
 ip vrf forwarding Servers
 ip address 172.16.1.1 255.255.255.0
!
interface Vlan30
 ip vrf forwarding Printers
 ip address 10.1.1.1 255.255.255.0
-- output omitted for brevity --
router eigrp 1
 10.0.0.0
 172.16.0.0
 192.168.1.0
```

Refer to the exhibit. An engineer attempts to configure a router on a stick to route packets between Clients, Servers, and Printers; however, initial tests show that this configuration is not working. Which command set resolves this issue?

- router eigrp 1
network 10.0.0.0 255.0.0.0
network 172.16.0.0 255.255.0.0
network 192.168.1.0 255.255.0.0
- interface Vlan10
no ip vrf forwarding Clients
!
interface Vlan20
no ip vrf forwarding Servers
!
interface Vlan30
no ip vrf forwarding Printers
- router eigrp 1
network 10.0.0.0 255.255.255.0
network 172.16.0.0 255.255.255.0
network 192.168.1.0 255.255.255.0
- interface Vlan10
no ip vrf forwarding Clients
ip address 192.168.1.1 255.255.255.0
!
interface Vlan20
no ip vrf forwarding Servers
ip address 172.16.1.1 255.255.255.0
!
interface Vlan30
no ip vrf forwarding Printers
ip address 10.1.1.1 255.255.255.0

Taken on 2nd Sep

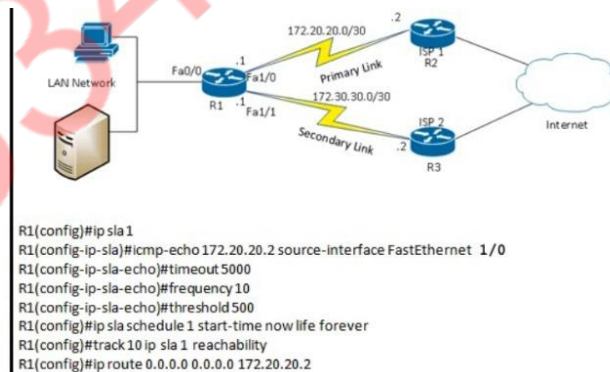
What is one fact about Cisco SD-Access wireless network deployments?

- The WLC is part of the fabric underlay.
- The wireless client is part of the fabric overlay.
- The access point is part of the fabric overlay.
- The access point is part of the fabric underlay.

```
Extended IP access list EGRESS
10 permit ip 10.0.0.0 0.0.0.255 any
|
<Output Omitted>
|
interface GigabitEthernet0/0
ip address 209.165.200.225 255.255.255.0
ip access-group EGRESS out
duplex auto
speed auto
media-type rj45
|
```

Refer to the exhibit. An engineer must block all traffic from a router to its directly connected subnet 209.165.200.0/24. The engineer applies access control list EGRESS in the outbound direction on the GigabitEthernet0/0 interface of the router. However, the router can still ping hosts on the 209.165.200.0/24 subnet. What explains this behavior?

- The access control list must contain an explicit deny to block traffic from the router.
- Only standard access control lists can block traffic from a source IP address.
- After an access control list is applied to an interface, that interface must be shut and no shut for the access control list to take effect.
- Access control lists that are applied outbound to a router interface do not affect traffic that is sourced from the router.



Refer to the exhibit. After implementing the configuration, 172.20.20.2 stops replying to ICMP echos, but the default route fails to be removed. What is the reason for this behavior?

- The threshold value is wrong.
- The source-interface is configured incorrectly.
- The default route is missing the track feature.
- The destination must be 172.30.30.2 for icmp-echo.

Windows تنشيط

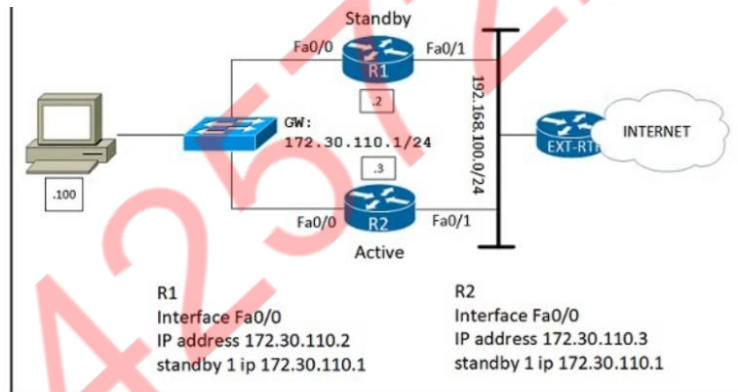
Taken on 2nd Sep

```
R1#show ip bgp
BGP table version is 32, local router ID is 192.168.101.5
Status codes: S suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
               x best-external, g additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found

   Network        Next Hop        Metric  LocPrf  Weight Path
**
**   192.168.102.0  192.168.101.18   80      80      0 64517 i
**   192.168.102.0  192.168.101.14   80      80      0 64516 i
**   192.168.102.0  192.168.101.10   80      80      0 64515 64515 i
**   192.168.102.0  192.168.101.2    32768   80      0 64513 i
**   192.168.102.0  192.168.101.6    80      80      0 64514 64514 i
```

Refer to the exhibit. Which IP address becomes the active next hop for 192.168.102.0/24 when 192.168.101.2 fails?

- 192.168.101.14
- 192.168.101.18
- 192.168.101.10
- 192.168.101.6



Refer to the exhibit. Which configuration change ensures that R1 is the active gateway whenever it is in a functional state for the 172.30.110.0/24 network?

- R1
standby 1 preempt
R2
standby 1 priority 100
- R2
standby 1 priority 90
standby 1 preempt
- R1
standby 1 preempt
R2
standby 1 priority 90
- R2
standby 1 priority 100
standby 1 preempt

Taken on 2nd Sep

Which protocol does REST API rely on to secure the communication channel?

- TCP
- SSH
- HTTP
- HTTPS

```
monitor session 1 source vlan 10 - 12 rx  
monitor session 1 destination interface gigabitethernet0/1
```

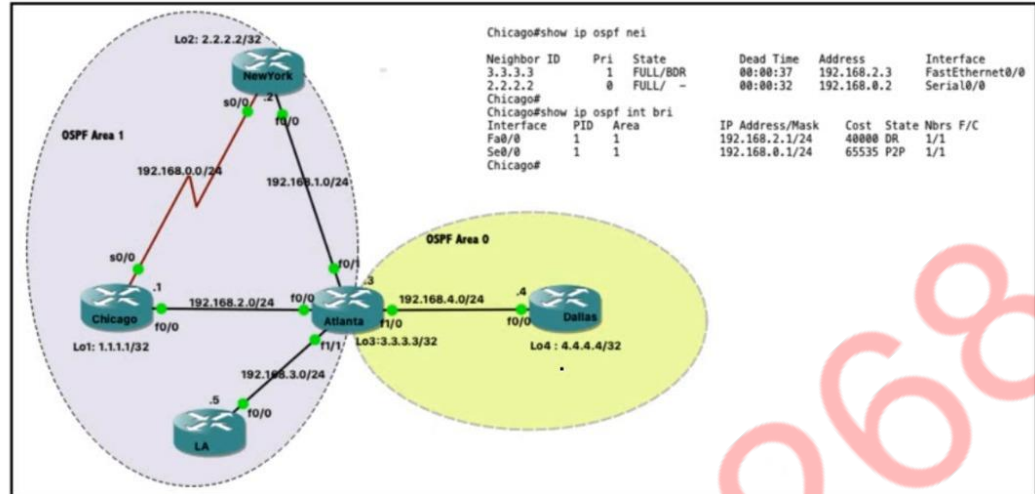
Refer to the exhibit. An engineer must configure a SPAN session. What is the effect of the configuration?

- Traffic sent on VLANs 10 and 12 only is copied and sent to interface g0/1.
- Traffic sent on VLANs 10, 11, and 12 is copied and sent to interface g0/1.
- Traffic received on VLANs 10 and 12 only is copied and sent to interface g0/1.
- Traffic received on VLANs 10, 11, and 12 is copied and sent to interface g0/1.

What is a Type 2 hypervisor?

- installed as an application on an already installed operating system
- runs directly on a physical server and includes its own operating system
- supports over-allocation of physical resources
- also referred to as a "bare metal hypervisor" because it sits directly on the physical server

Taken on 2nd Sep



Refer to the exhibit. Which router is the designated router on the segment 192.168.0.0/24?

- Router Chicago because it has a lower router ID.
- This segment has no designated router because it is a p2p network type.
- Router NewYork because it has a higher router ID.
- This segment has no designated router because it is a nonbroadcast network type.

What is the difference between the MAC address table and TCAM?

- Router prefix lookups happen in TCAM. MAC address table lookups happen in CAM.
- TCAM is used to make L2 forwarding decisions. CAM is used to build routing tables.
- The MAC address table supports partial matches. TCAM requires an exact match.
- The MAC address table is contained in TCAM. ACL and QoS information is stored in CAM.

Taken on 2nd Sep

```
SW1#sh monitor session all
Session 1
-----
Type                : Remote Destination Session
Source RSPAN VLAN   : 50

Session 2
-----
Type                : Local Session
Source Ports        :
  Both              : Fa0/14
Destination Ports   : Fa0/15
Encapsulation       : Native
Ingress             : Disables
```

Refer to the exhibit. An engineer configures monitoring on SW1 and enters the **show** command to verify operation. What does the output confirm?

- RSPAN session 1 is incompletely configured for monitoring.
- SPAN session 2 monitors all traffic entering and exiting port FastEthernet 0/15.
- RSPAN session 1 monitors activity on VLAN 50 of a remote switch.
- SPAN session 2 only monitors egress traffic exiting port FastEthernet 0/14.

Which two threats does AMP4E have the ability to block? (Choose two.)

ransomware

Microsoft Word macro attack

SQL injection

email phishing

DDoS

Which two actions, when applied in the LAN network segment, will facilitate Layer 3 CAPWAP discovery for lightweight AP? (Choose two.)

- Enable port security on the switch port.
- Utilize DHCP option 43.
- Configure WLC IP address on LAN switch.
- Utilize DHCP option 17.
- Configure an ip helper-address on the router interface.

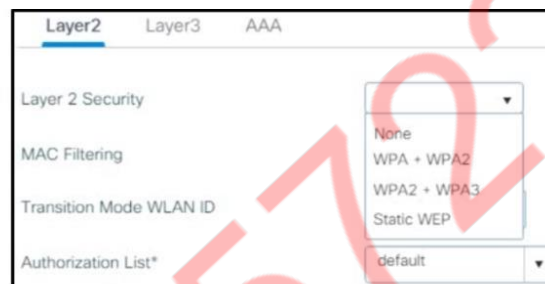
Taken on 2nd Sep

When a wireless client roams between two different wireless controllers, a network connectivity outage is experienced for a period of time. Which configuration issue would cause this problem?

- Not all of the controllers in the mobility group are using the same mobility group name.
- Not all of the controllers within the mobility group are using the same virtual interface IP address.
- All of the controllers within the mobility group are using the same virtual interface IP address.
- All of the controllers in the mobility group are using the same mobility group name.

An engineer must configure a GRE tunnel interface in the default mode. The engineer has assigned an IPv4 address on the tunnel and sourced the tunnel from an Ethernet interface. Which additional configuration must be made on the tunnel interface?

- (config-if)# ip tcp adjust-mss <value>
- (config-if)# ip mtu <value>
- (config-if)# tunnel destination <ip address>
- (config-if)# keepalive <seconds retries>



Refer to the exhibit. A client requests a new SSID that will use web-based authentication and external RADIUS servers. Which Layer 2 security mode must be selected?

- Static WEP
- WPA + WPA2
- WPA2 + WPA3
- None

Which measure is used by an NTP server to indicate its closeness to the authoritative time source?

- time zone
- latency
- stratum
- hop count

A customer has recently implemented a new wireless infrastructure using WLC-5520s at a site directly next to a large commercial airport. Users report that they intermittently lose Wi-Fi connectivity, and troubleshooting reveals it is due to frequent channel changes. Which two actions fix this issue? (Choose two.)

- Disable DFS channels to prevent interference with Doppler radar.
- Remove UNII-2 and Extended UNII-2 channels from the 5 GHz channel list.
- Configure channels on the UNII-2 and the Extended UNII-2 sub-bands of the 5 GHz band only.
- Restore the DCA default settings because this automatically avoids channel interference.
- Enable DFS channels because they are immune to radar interference.

Taken on 2nd Sep

What is a benefit of data modeling languages like YANG?

- They provide a standardized data structure, which results in configuration scalability and consistency.
- They create more secure and efficient SNMP OIDs.
- They enable programmers to change or write their own applications within the device operating system.
- They make the CLI simpler and more efficient.

What is a benefit of data modeling languages like YANG?

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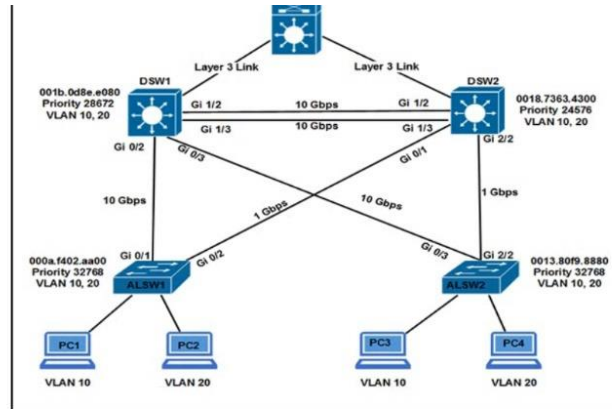
Which characteristic distinguishes Ansible from Chef?

- Ansible uses Ruby to manage configurations. Chef uses YAML to manage configurations.
- The Ansible server can run on Linux, Unix or Windows. The Chef server must run on Linux or Unix.
- Ansible lacks redundancy support for the primary server. Chef runs two primary servers in active/active mode.
- Ansible pushes the configuration to the client. Chef client pulls the configuration from the server.

What are two characteristics of VXLAN? (Choose two)

- It lacks support for host mobility.
- It extends Layer 2 and Layer 3 overlay networks over a Layer 2 underlay.
- It has a 12-bit network identifier.
- It uses VTEPs to encapsulate and decapsulate frames.
- It allows for up to 16 million VXLAN segments.

Taken on 2nd Sep



Refer to the exhibit. All switches are configured with the default port priority value. Which two commands ensure that traffic from PC1 is forwarded over the Gi1/3 trunk port between DSW1 and DSW2? (Choose two.)

- DSW1(config-if)#spanning-tree port-priority 0
- DSW2(config)#interface gi1/3
- DSW2(config-if)#spanning-tree port-priority 16
- DSW1(config)#interface gi1/3
- DSW2(config-if)#spanning-tree port-priority 128

```
with manager.connect(host=192.168.0.1, port=22,
username='admin', password='password1', hostkey_verify=True,
device_params={'name':'nexus'}) as m:
```

Refer to the exhibit. What does the snippet of code achieve?

- It creates a temporary connection to a Cisco Nexus device and retrieves a token to be used for API calls.
- It opens an ncclient connection to a Cisco Nexus device and maintains it for the duration of the context.
- It opens a tunnel and encapsulates the login information, if the host key is correct.
- It creates an SSH connection using the SSH key that is stored, and the password is ignored.

What is the function of Cisco DNA Center in a Cisco SD-Access deployment?

- It is responsible for routing decisions inside the fabric.
- It is responsible for the design, management, deployment, provisioning, and assurance of the fabric network devices.
- It possesses information about all endpoints, nodes, and external networks related to the fabric.
- It provides integration and automation for all nonfabric nodes and their fabric counterparts.

Taken on 2nd Sep

```
aaa new-model
aaa authentication login authorizationlist tacacs+
tacacs-server host 192.168.0.202
tacacs-server key ciscotestkey
line vty 0 4
login authentication authorizationlist
```

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

- The device will allow users at 192.168.0.202 to connect to vty lines 0 through 4 using the password **ciscotestkey**.
- The device will authenticate all users connecting to vty lines 0 through 4 against TACACS+.
- When users attempt to connect to vty lines 0 through 4, the device will authenticate them against TACACS+ if local authentication fails.
- The device will allow only users at 192.168.0.202 to connect to vty lines 0 through 4.

Which solution do IaaS service providers use to extend a Layer 2 segment across a Layer 3 network?

- VLAN
- VTEP
- VXLAN
- VRF

How do cloud deployments differ from on-premises deployments?

- Cloud deployments have lower upfront costs than on-premises deployments.
- Cloud deployments require less frequent upgrades than on-premises deployments.
- Cloud deployments require longer implementation times than on-premises deployments.
- Cloud deployments are more customizable than on-premises deployments.

Taken on 2nd Sep

WLANs > Edit 'Guest_Wireless'

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Select AAA servers below to override use of default servers on this WLAN

Radius Servers

Radius Server Overwrite interface Enabled

Interface Priority WLAN

	Authentication Servers	Accounting Servers
	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled
Server 1	None	None
Server 2	None	None
Server 3	None	None
Server 4	None	None
Server 5	None	None
Server 6	None	None

Refer to the exhibit. Assuming the WLC's interfaces are not in the same subnet as the RADIUS server, which interface would the WLC use as the source for all RADIUS-related traffic?

- the controller virtual interface
- any interface configured on the WLC
- the controller management interface
- the interface specified on the WLAN configuration

What is a fact about Cisco EAP-FAST?

- It requires a client certificate.
- It operates in transparent mode.
- It is an IETF standard.
- It does not require a RADIUS server certificate.

Taken on 2nd Sep

Which two operations are valid for RESTCONF? (Choose two.)

- PULL
- PUSH
- HEAD
- ADD
- REMOVE
- PATCH

```
ip sla 10
icmp-echo 192.168.10.20
timeout 500
frequency 3
ip sla schedule 10 life forever start-time now
track 10 ip sla 10 reachability
```

Refer to the exhibit. The IP SLA is configured in a router. An engineer must configure an EEM applet to shut down the interface and bring it back up when there is a problem with the IP SLA. Which configuration should the engineer use?

- event manager applet EEM_IP_SLA
event track 10 state down
- event manager applet EEM_IP_SLA
event track 10 state unreachable
- event manager applet EEM_IP_SLA
event sla 10 state unreachable
- event manager applet EEM_IP_SLA
event sla 10 state down

An engineer must provide wireless coverage in a square office. The engineer has only one AP and believes that it should be placed in the middle of the room. Which antenna type should the engineer use?

- Yagi
- directional
- polarized
- omnidirectional

Taken on 2nd Sep

Why is an AP joining a different WLC than the one specified through option 43?

- The WLC is running a different software version.
- The APs broadcast traffic is unable to reach the WLC through Layer 2.
- The AP is joining a primed WLC.
- The AP multicast traffic is unable to reach the WLC through Layer 3.

Where is radio resource management performed in a Cisco SD-Access wireless solution?

- DNA Center
- control plane node
- wireless controller
- Cisco CMX

What is the role of the RP in PIM sparse mode?

- The RP acts as a control-plane node only and does not receive or forward multicast packets.
- The RP responds to the PIM join messages with the source of a requested multicast group.
- The RP is the multicast router that is the root of the PIM-SM shared multicast distribution tree.
- The RP maintains default aging timeouts for all multicast streams requested by the receivers.

Taken on 2nd Sep

```
Extended IP access list EGRESS
10 permit ip 10.1.100.0 0.0.0.255 10.1.2.0 0.0.0.255
20 deny ip any any
```

Refer to the exhibit. An engineer must modify the access control list EGRESS to allow all IP traffic from subnet 10.1.10.0/24 to 10.1.2.0/24. The access control list is applied in the outbound direction on router interface GigabitEthernet 0/1. Which configuration command set will allow this traffic without disrupting existing traffic flows?

- config t
ip access-list extended EGRESS2
permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
permit ip 10.1.100.0 0.0.0.255 10.1.2.0 0.0.0.255
deny ip any any
!
interface g0/1
no ip access-group EGRESS out
ip access-group EGRESS2 out
- config t
ip access-list extended EGRESS
permit ip 10.1.10.0 255.255.255.0 10.1.2.0 255.255.255.0
- config t
ip access-list extended EGRESS
5 permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
- config t
ip access-list extended EGRESS
permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255

Drag and drop the descriptions of the VSS technology from the left to the right. Not all options are used.

supported on Cisco 3750 and 3850 devices

supported up to nine devices

uses proprietary cabling

VSS

combines exactly two devices

supports devices that are geographically separated

supported on the Cisco 4500 and 6500 series

Which statement about TLS is accurate when using RESTCONF to write configurations on network devices?

- It is provided using NGINX acting as a proxy web server.
- It is not supported on Cisco devices.
- It is used for HTTP and HTTPS requests.
- It requires certificates for authentication.

Taken on 2nd Sep

An engineer measures the Wi-Fi coverage at a customer site. The RSSI values are recorded as follows:

- Location A: -72 dBm
- Location B: -75 dBm
- Location C: -65 dBm
- Location D: -80 dBm

Which two statements does the engineer use to explain these values to the customer? (Choose two.)

- The RF signal strength at location B is 50% weaker than location A.
- The signal strength at location B is 10 dB better than location C.
- The RF signal strength at location C is 10 times stronger than location B.
- Location D has the strongest RF signal strength.
- The signal strength at location C is too weak to support web surfing.

Which outbound access list, applied to the WAN interface of a router, permits all traffic except for http traffic sourced from the workstation with IP address 10.10.10.1?

- ip access-list extended 10
deny tcp host 10.10.10.1 any eq 80
permit ip any any
- ip access-list extended NO_HTTP
deny tcp host 10.10.10.1 any eq 80
- ip access-list extended 200
deny tcp host 10.10.10.1 eq 80 any
permit ip any any
- ip access-list extended 100
deny tcp host 10.10.10.1 any eq 80
permit ip any any

```
R2#show standby
FastEthernet1/0 - Group 50
  State is Active
    2 state changes, last state change 00:04:02
  Virtual IP address is 10.10.1.1
  Active virtual MAC address is 0000.0c07.ac32 (MAC In Use)
  Local virtual MAC address is 0000.0c07.ac32 (v1 default)
  Hello time 3 sec, hold time 10 sec
  Next hello sent in 1.504 secs
  Preemption enabled, delay reload 90 secs
  Active router is local
  Standby router is unknown
  Priority 200 (configured 200)
  Track interface FastEthernet0/0 state Up decrement 20
  Group name is "hsrp-Fal/0-50" (default)
R2#
%IP-4-DUPADDR: Duplicate address 10.10.1.1 on FastEthernet1/0, sourced by 0000.0c07.ac28
R2#
```

Refer to the exhibit. An engineer configures a new HSRP group. While reviewing the HSRP status, the engineer sees the logging message generated on R2. What is the cause of the message?

- The HSRP configuration has caused a routing loop.
- The HSRP configuration has caused a spanning-tree loop.
- A PC is on the network using the IP address 10.10.1.1.
- The same virtual IP address has been configured for two HSRP groups.

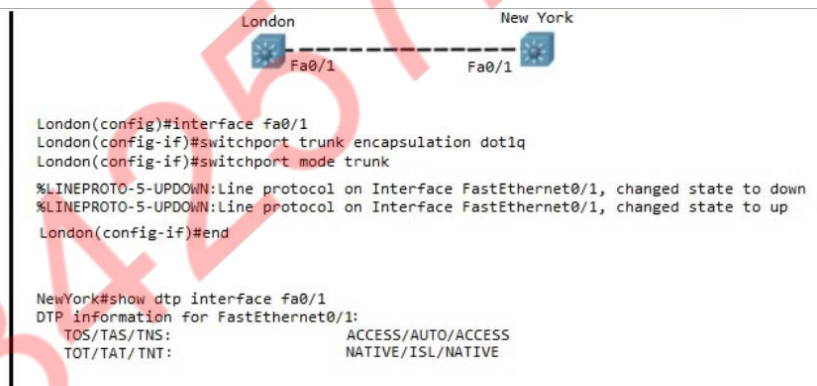
Taken on 2nd Sep

Which method of account authentication does OAuth 2.0 use within REST APIs?

- username/role combination
- access tokens
- cookie authentication
- basic signature workflow

A network administrator is implementing a routing configuration change and enables routing debugs to track routing behavior during the change. The logging output on the terminal is interrupting the command typing process. Which two actions can the network administrator take to minimize the possibility of typing commands incorrectly? (Choose two.)

- Increase the number of lines on the screen using the **terminal length** command.
- Configure the logging delimiter feature.
- Configure the **logging synchronous** command under the vty.
- Press the TAB key to reprint the command in a new line.
- Configure the **logging synchronous** global configuration command.



Refer to the exhibit. Communication between London and New York is down. Which command set must be applied to resolve this issue?

- NewYork(config)#int f0/1
NewYork(config)#switchport mode dynamic desirable
NewYork(config)#end
NewYork#
- NewYork(config)#int f0/1
NewYork(config)#switchport nonegotiate
NewYork(config)#end
NewYork#
- NewYork(config)#int f0/1
NewYork(config)#switchport trunk encap dot1q
NewYork(config)#end
NewYork#
- NewYork(config)#int f0/1
NewYork(config)#switchport mode trunk
NewYork(config)#end
NewYork#

Taken on 2nd Sep

Drag and drop the characteristics from the left onto the routing protocols they describe on the right.

OSPF
quickly computes new path upon link failure
EIGRP
maintains alternative loop-free backup path if available
selects routes using the DUAL algorithm

How is Layer 3 roaming accomplished in a unified wireless deployment?

- An EoIP tunnel is created between the client and the anchor controller to provide seamless connectivity as the client is associated with the new AP.
- The client entry on the original controller is passed to the database on the new controller.
- The new controller assigns an IP address from the new subnet to the client.
- The client database on the original controller is updated with the anchor entry, and the new controller database is updated with the foreign entry.



Refer to the exhibit. Cisco DNA Center has obtained the username of the client and the multiple devices that the client is using on the network. How is Cisco DNA Center getting these context details?

- Those details are provided to Cisco DNA Center by the Identity Services Engine.
- The administrator had to assign the username to the IP address manually in the user database tool on Cisco DNA Center.
- User entered those details in the Assurance app available on iOS and Android devices.
- Cisco DNA Center pulled those details directly from the edge node where the user connected.

A company plans to implement intent-based networking in its campus infrastructure. Which design facilitates a migration from a traditional campus design to a programmable fabric design?

- Layer 2 access
- three-tier
- routed access
- two-tier

Taken on 2nd Sep

Which algorithms are used to secure REST API from brute attacks and minimize the impact?

- SHA-512 and SHA-384
- MD5 algorithm-128 and SHA-384
- SHA-1, SHA-256, and SHA-512
- PBKDF2, BCrypt, and SCrypt

```
<?xml version="1.0" encoding="utf-8"?>  
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"/>
```

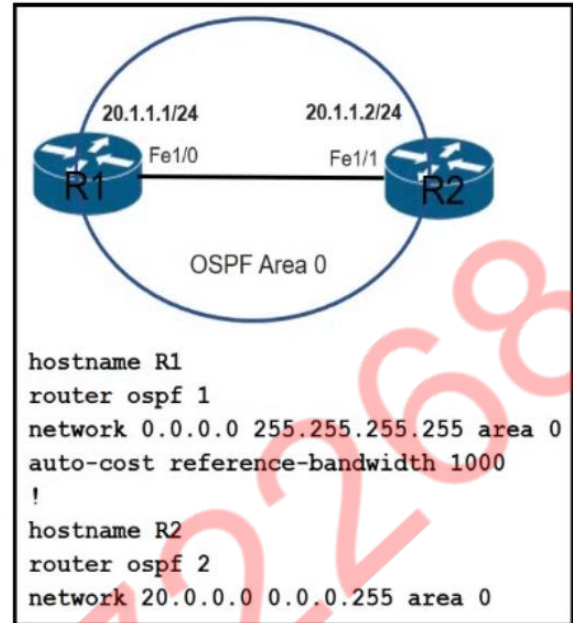
Refer to the exhibit. What does the error message relay to the administrator who is trying to configure a Cisco IOS device?

- A NETCONF request was made for a data model that does not exist.
- A NETCONF message with valid content based on the YANG data models was made, but the request failed.
- The NETCONF running datastore is currently locked.
- The device received a valid NETCONF request and serviced it without error.

Which JSON syntax is valid?

- {"switch": {"name": "dist1", "interfaces": ["gig1", "gig2", "gig3"]}}
- {'switch': ('name': 'dist1', 'interfaces': ['gig1', 'gig2', 'gig3'])}
- {"switch": "name": "dist1", "interfaces": ["gig1", "gig2", "gig3"]}
- {/"switch/": {/"name/": "dist1", /"interfaces/": ["gig1", "gig2", "gig3"]}}

Taken on 2nd Sep



Refer to the exhibit. Which command must be applied to R2 for an OSPF neighborship to form?

- `network 20.1.1.2 0.0.0.0 area 0`
- `network 20.1.1.0 0.0.0.0 area 0`
- `network 20.0.0.2 0.0.0.0 area 0`
- `network 20.0.0.2 0.0.0.3 area 0`

Which technology provides a secure communication channel for all traffic at Layer 2 of the OSI model?

- IPsec
- SSL
- Cisco TrustSec
- MACsec

Taken on 2nd Sep

Which technology is used as the basis for the Cisco SD-Access data plane?

- IPsec
- LISP
- VXLAN
- 802.1Q

✓

Which technology is used as the basis for the Cisco SD-Access data plane?

- IPsec
- LISP
- VXLAN
- 802.1Q

✓

Which OSPF network types are compatible and allow communication through the two peering devices?

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

Taken on 2nd Sep

What is the difference between CEF and process switching?

- Process switching is faster than CEF.
- CEF is more CPU-intensive than process switching.
- CEF processes packets that are too complex for process switching to manage.
- CEF uses the FIB and the adjacency table to make forwarding decisions, whereas process switching punts each packet.

Which function is handled by vManage in the Cisco SD-WAN fabric?

- Establishes BFD sessions to test liveness of links and nodes.
- Distributes policies that govern data forwarding.
- Performs remote software upgrades for WAN Edge, vSmart, and vBond.
- Establishes IPsec tunnels with nodes.

Which element enables communication between guest VMs within a virtualized environment?

- pNIC
- hypervisor
- virtual router
- vSwitch

```
aaa new-model
aaa authentication login default local-case enable
aaa authentication login ADMIN local-case
username CCNP secret StrongP@ssw0rd!
line 0 4
  login authentication ADMIN
```

Refer to the exhibit. An engineer must create a configuration that executes the **show run** command and then terminates the session when user CCNP logs in. Which configuration change is required?

- Add the **access-class** keyword to the **username** command.
- Add the **access-class** keyword to the **aaa authentication** command.
- Add the **autocommand** keyword to the **username** command.
- Add the **autocommand** keyword to the **aaa authentication** command.

Taken on 2nd Sep

```
Router#sh run | b vty
line vty 0 4
  session-timeout 30
  exec-timeout 120 0
  session-limit 30
  login local
line vty 5 15
  session-timeout 30
  exec-timeout 30 0
  session-limit 30
  login local
```

Refer to the exhibit. Security policy requires all idle exec sessions to be terminated in 600 seconds. Which configuration achieves this goal?

line vty 0 15
exec-timeout 10 0

line vty 0 15
no exec-timeout

line vty 0 4
exec-timeout 600

line vty 0 15
absolute-timeout 600

An engineer configures a WLAN with fast transition enabled. Some legacy clients fail to connect to this WLAN. Which feature allows the legacy clients to connect while still allowing other clients to use fast transition based on their OUIs?

adaptive R

802.11v

802.11k

over the DS

Taken on 2nd Sep

Which three elements determine Air Time efficiency? (Choose three.)

- event-driven RRM
- number of spatial streams and spatial reuse
- data rate (modulation density) or QAM
- channel bandwidth
- RF group leader
- dynamic channel assignment

A customer has several small branches and wants to deploy a Wi-Fi solution with local management using CAPWAP. Which deployment model meets this requirement?

- SD-Access wireless
- Mobility Express
- autonomous
- local mode

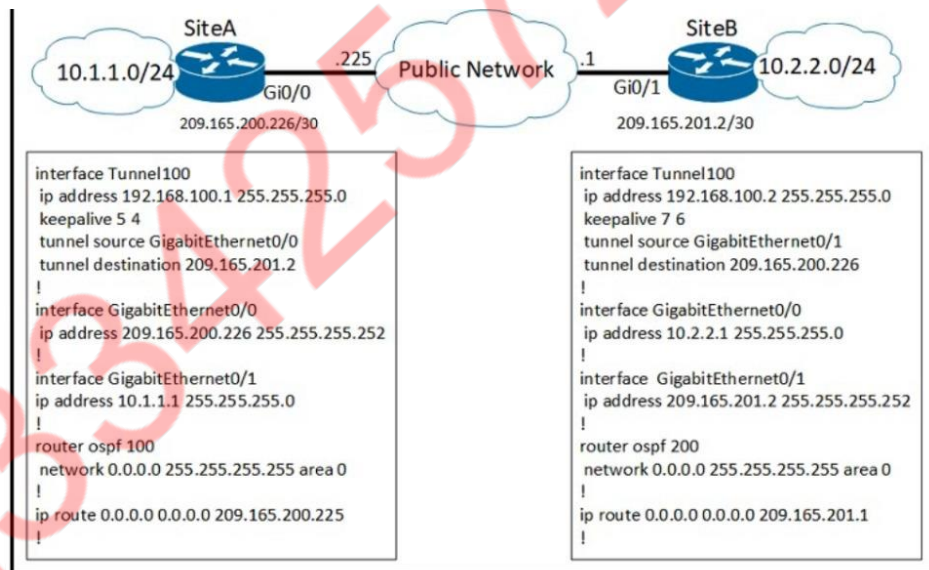
In a Cisco SD-WAN deployment, which action is the vSmart controller responsible for?

- handle, maintain, and gather configuration and status for nodes within the Cisco SD-WAN fabric
- distribute policies that govern data forwarding performed within the Cisco SD-WAN fabric
- gather telemetry data from WAN Edge routers
- onboard WAN Edge nodes into the Cisco SD-WAN fabric

Taken on 2nd Sep

What are two benefits of YANG? (Choose two.)

- It enforces the use of a specific encoding format for NETCONF.
- It enforces configuration constraints.
- It enforces configuration semantics.
- It enables multiple leaf statements to exist within a leaf list.
- It collects statistical constraint analysis information.



Refer to the exhibit. A network engineer configures a new GRE tunnel and enters the **show run** command. What does the output verify?

- The tunnel destination will be known via the tunnel interface.
- The tunnel will be established and work as expected.
- The tunnel keepalive is configured incorrectly because they must match on both sites.
- The default MTU of the tunnel interface is 1500 bytes.

Taken on 2nd Sep

When configuring WPA2 Enterprise on a WLAN, which additional security component configuration is required?

- RADIUS server
- TACACS server
- PKI server
- NTP server

Running the script causes the output in the exhibit. Which change to the first line of the script resolves the error?

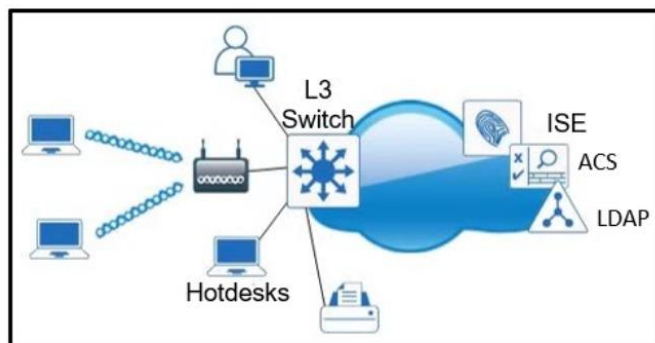
```
import ncclient

with ncclient.manager.connect(
    host = '192.168.1.1',
    port=830,
    username = 'root',
    password = 'test405032631!',
    allow_agent = False) as m:
    print(m.get_config('running').data_xml)
```

Output

```
$ python get_config.py
Traceback (most recent call last) :
  File "get_config.py", line 3, in <module>
    with ncclient.manager.connect (host = '192.168.1.1, port = 830, username = 'root',
AttributeError: 'module' object has no attribute 'manager'
```

- from ncclient import
- import manager
- from ncclient import *
- import ncclient.manager



Refer to the exhibit. Which single security feature is recommended to provide Network Access Control in the enterprise?

- MAB
- 802.1X
- WebAuth
- port security sticky MAC

Taken on 2nd Sep

Which data is properly formatted with JSON?

{
 "name": "Peter"
 "age": "25"
 "likesJson": true
 "characteristics": ["small", "strong", 18]
}

{
 "name": Peter,
 "age": 25,
 "likesJson": true,
 "characteristics": ["small", "strong", "18"],
}

{
 "name": "Peter",
 "age": "25",
 "likesJson": true,
 "characteristics": ["small", "strong", "18"],
}

{
 "name": "Peter",
 "age": "25",
 "likesJson": true,
 "characteristics": ["small", "strong", 18]
}

Taken on 2nd Sep

Drag and drop the characteristics from the left onto the orchestration tools they describe on the right.

Ansible

- utilizes a push model
- primary/secondary architecture

Puppet

- utilizes a pull model
- multimaster architecture

Drag and drop the threat defense solutions from the left onto their descriptions on the right.

- AMP4E
- FTD
- StealthWatch
- ESA
- Umbrella

```
import ncclient
with ncclient.manager.connect(host='192.168.1.1', port=830, username='root',
                             password='teset123!', allow_agent=False) as m:
    print(m.get_config('running').data_xml)
```

Refer to the exhibit. After running the code in the exhibit, which step reduces the amount of data that the NETCONF server returns to the NETCONF client, to only the interface's configuration?

- Use the lxml library to parse the data returned by the NETCONF server for the interface's configuration.
- Create an XML filter as a string and pass it to get_config() method as an argument.
- Create a JSON filter as a string and pass it to the get_config() method as an argument.
- Use the JSON library to parse the data returned by the NETCONF server for the interface's configuration.

Taken on 2nd Sep

At which layer does Cisco DNA Center support REST controls?

- YAML output from responses to API calls
- northbound APIs
- EEM applets or scripts
- session layer

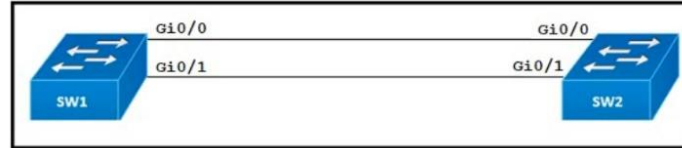
What are two considerations when using SSO as a network redundancy feature? (Choose two.)

- the multicast state is preserved during switchover
- must be combined with NSF to support uninterrupted Layer 2 operations
- must be combined with NSF to support uninterrupted Layer 3 operations
- requires synchronization between supervisors in order to guarantee continuous connectivity
- both supervisors must be configured separately

Which method creates an EEM applet policy that is registered with EEM and runs on demand or manually?

- event manager applet ondemand
event manual
action 1.0 syslog priority critical msg 'This is a message from ondemand'
- event manager applet ondemand
event none
action 1.0 syslog priority critical msg 'This is a message from ondemand'
- event manager applet ondemand
event register
action 1.0 syslog priority critical msg 'This is a message from ondemand'
- event manager applet ondemand
action 1.0 syslog priority critical msg 'This is a message from ondemand'

Taken on 2nd Sep



Refer to the exhibit. An engineer reconfigures the port-channel between SW1 and SW2 from an access port to a trunk and immediately notices this error in SW1's log:

```
Mar 1 09:47:22.245: %PM-4-ERR_DISABLE: bpduguard error detected on Gi0/0, putting Gi0/0 in err-disable state
```

Which command set resolves this error?

- SW1(config-if)#**interface Gi0/0**
SW1(config-if)#**no spanning-tree bpduguard enable**
SW1(config-if)#**shut**
SW1(config-if)#**no shut**
- SW1(config-if)#**interface Gi0/0**
SW1(config-if)#**spanning-tree bpduguard enable**
SW1(config-if)#**shut**
SW1(config-if)#**no shut**
- SW1(config-if)#**interface Gi0/0**
SW1(config-if)#**no spanning-tree bpdufilter**
SW1(config-if)#**shut**
SW1(config-if)#**no shut**
- SW1(config-if)#**interface Gi0/1**
SW1(config-if)#**spanning-tree bpduguard enable**
SW1(config-if)#**shut**
SW1(config-if)#**no shut**

تنشيط Windows



Refer to the exhibit. VLANs 50 and 60 exist on the trunk links between all switches. All access ports on SW3 are configured for VLAN 50 and SW1 is the VTP server. Which command ensures that SW3 receives frames only from VLAN 50?

- SW1(config)#**vtp mode transparent**
- SW3(config)#**vtp mode transparent**
- SW2(config)#**vtp pruning**
- SW1(config)#**vtp pruning**

Taken on 2nd Sep

Drag and drop the descriptions from the left onto the routing protocol they describe on the right.

OSPF

- summaries can be created in specific parts of the IGP topology
- uses areas to segment a network

EIGRP

- summaries can be created anywhere in the IGP topology

Drag and drop the QoS mechanisms from the left onto their descriptions on the right.

- policy map
- service policy
- DSCP