



300-101^{Q&As}

Implementing Cisco IP Routing

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**QUESTION 1**

Refer to the exhibit A network engineer is modifying configurations for a customer that currently uses VPN connectivity between their sites. The customer has added a new spoke site but is does not have reachability to servers located at the hub Based on the output, which statement describes the cause?

```
VRF HUB (VRF Id = 3): default RD 100:10;
default VPNID <not set>
  New CLI format, supports multiple
  address-families
  Flags: 0x180C
  Interfaces:
    Gi1
  Address family ipv4 unicast (Table ID =
  0x3):
  Flags: 0x0
  Export VPN route-target communities
  RT:100:10
  Import VPN route-target communities:
  RT:100:10 RT:200:20
  No import route-map
  No global export route-map
  No export route-map
  VRF label distribution protocol: not
  configured
  VRF label allocation mode: per-prefix
  Address family ipv6 unicast (Table ID =
  0x1E000001)
  [Output omitted]

VRF SPOKE (VRF Id = 4): default RD 200:20;
default VPNID <not set>
  New CLI format, supports multiple
  address-families
  Flags: 0x180C
  Interfaces:
    Gi2
  Address family ipv4 unicast (Table ID =
  0x4):
  Flags: 0x0
  Export VPN route-target communities
  RT:200:20
  Import VPN route-target communities
  RT:200:20
  No import route-map
  No global export route-map
  No export route-map
  VRF label distribution protocol: not
  configured
  VRF label allocation mode: per-prefix
  Address family ipv6 unicast (Table ID =
  0x1E000002)
  [Output omitted]
```

- A. The interface of VRF HUB and VRF SPOKE do not match
- B. The HUB VRF is not exporting Route-Target 200:20
- C. The default VPNID is not set on VRF HUB or VRF SPOKE
- D. The SPOKE VRF is not importing Route-Target 100:10

Correct Answer: D

QUESTION 2

ALWAYS block the outbound web traffic on Saturdays and Sunday between 1:00 to 23:59

- A. periodic Saturday Sunday 01:00 to 23:59 and IN
- B. periodic Saturday Sunday 01:00 to 23:59 and OUT
- C. periodic Saturday Sunday 01:00 to 11:59 and IN



D. Absolute Saturday Sunday 01:00 to 11:59 and IN

Correct Answer: B

QUESTION 3

A network engineer is configuring SNMP on network devices to utilize one-way SNMP notifications. However, the engineer is not concerned with authentication or encryption. Which command satisfies the requirements of this scenario?

- A. `router(config)#snmp-server host 172.16.201.28 traps version 2c CISCORO`
- B. `router(config)#snmp-server host 172.16.201.28 informs version 2c CISCORO`
- C. `router(config)#snmp-server host 172.16.201.28 traps version 3 auth CISCORO`
- D. `router(config)#snmp-server host 172.16.201.28 informs version 3 auth CISCORO`

Correct Answer: A

Most network admins and engineers are familiar with SNMPv2c which has become the dominant SNMP version of the past decade. It's simple to configure on both the router/switch-side and just as easy on the network monitoring server. The problem of course is that the SNMP statistical payload is not encrypted and authentication is passed in cleartext. Most companies have decided that the information being transmitted isn't valuable enough to be worth the extra effort in upgrading to SNMPv3, but I would suggest otherwise. Like IPv4 to Ipv6, there are some major changes under the hood. SNMP version 2 uses community strings (think clear text passwords, no encryption) to authenticate polling and trap delivery. SNMP version 3 moves away from the community string approach in favor of user-based authentication and view-based access control. The users are not actual local user accounts, rather they are simply a means to determine who can authenticate to the device. The view is used to define what the user account may access on the IOS device. Finally, each user is added to a group, which determines the access policy for its users. Users, groups, views.

QUESTION 4

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?

- A. `ip access-list extended 200 deny tcp host 10.10.10.1 eq 80 any permit ip any any`
- B. `ip access-list extended 10 deny tcp host 10.10.10.1 any eq 80 permit ip any any`
- C. `ip access-list extended NO_HTTP deny tcp host 10.10.10.1 any eq 80`
- D. `ip access-list extended 100 deny tcp host 10.10.10.1 any eq 80 permit ip any any`

Correct Answer: D

QUESTION 5

Refer to the following configuration command. `router (config-line)# ntp master 10` Which statement about this command is true?



- A. The router acts as an authoritative NTP clock and allows only 10 NTP client connections.
- B. The router acts as an authoritative NTP clock at stratum 10.
- C. The router acts as an authoritative NTP clock with a priority number of 10.
- D. The router acts as an authoritative NTP clock for 10 minutes only.

Correct Answer: B

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