



# 640-878<sup>Q&As</sup>

Building Cisco Service Provider Next-Generation Network

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### QUESTION 1

Which Cisco IOS access list permits HTTP traffic that is sourced from host 10.1.129.100 port 3030 and that is destined to host 192.168.1.10?

- A. access-list 101 permit tcp any eq 3030
- B. access-list 101 permit tcp 10.1.128.0 0.0.1.255 eq 3030 192.168.1.0 0.0.0.15 eq www
- C. access-list 101 permit tcp 10.1.129.0 0.0.0.255 eq www 192.168.1.10 0.0.0.0 eq www
- D. access-list 101 permit tcp host 192.168.1.10 eq 80 10.1.0.0 0.0.255.255 eq 3030
- E. access-list 101 permit tcp 192.168.1.10 0.0.0.0 eq 80 10.1.0.0 0.0.255.255
- F. access-list 101 permit ip host 10.1.129.100 eq 3030 host 192.168.1.100 eq 80

Correct Answer: B

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### QUESTION 2

Which IPv6 address block is reserved for 6to4 tunneling?

- A. 2000::/16
- B. 2001::/16
- C. 2002::/16
- D. 3ffe::/16
- E. fe80::/16

Correct Answer: C

<http://www.cisco.com/en/US/docs/ios/ipv6/configuration/guide/ip6-tunnel.html#wp1055738>

**Prerequisites** With 6to4 tunnels, the tunnel destination is determined by the border router IPv4 address, which is concatenated to the prefix 2002::/16 in the format 2002:border-router-IPv4-address::/48. The border router at each end of a 6to4 tunnel must support both the IPv4 and IPv6 protocol stacks.

**Restrictions** The configuration of only one IPv4-compatible tunnel and one 6to4 IPv6 tunnel is supported on a router. If you choose to configure both of those tunnel types on the same router, we strongly recommend that they do not share the same tunnel source. The reason that a 6to4 tunnel and an IPv4-compatible tunnel cannot share an interface is that both of them are NBMA "point-to-multipoint" access links and only the tunnel source can be used to reorder the packets from a multiplexed packet stream into a single packet stream for an incoming interface. So when a packet with an IPv4 protocol type of 41 arrives on an interface, that packet is mapped to an IPv6 tunnel interface based on the IPv4 address. However, if both the 6to4 tunnel and the IPv4-compatible tunnel share the same source interface, the router is not able to determine the IPv6 tunnel interface to which it should assign the incoming packet. IPv6 manually configured tunnels can share the same source interface because a manual tunnel is a "point-to-point" link, and both the IPv4 source and IPv4 destination of the tunnel are defined.

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### QUESTION 3

Refer to the partial Cisco IOS router configuration exhibit.

```
interface FastEthernet0/0
no ip address
no shut
!
interface FastEthernet0/0.1
ip address 192.168.1.1 255.255.255.0
!
interface FastEthernet0/0.2
ip address 192.168.2.1 255.255.255.0
!
interface FastEthernet0/0.3
ip address 192.168.3.1 255.255.255.0
!
```

Which statement is true?

- A. To support the subinterface configuration, the Fa0/0 main interface configuration is missing the encapsulation dot1Q command.
- B. The Fa0/0 interface/subinterfaces are configured correctly to operate as a trunk port to provide inter- VLAN routing for three VLANs (VLANs 1, 2, and 3).
- C. To provide inter-VLAN routing, the Fa0/0.1, Fa0/0.2 and Fa0/0.3 subinterface configuration is missing the encapsulation dot1Q vlan-id subinterface configuration command.
- D. To provide inter-VLAN routing, the router is missing the vlan 1, vlan 2, and vlan 3 global configuration commands.

Correct Answer: C

### QUESTION 4

Refer to the exhibit.

```
Switch# show running-config interface fastethernet 5/6

Building configuration...
Current configuration:
!
interface FastEthernet5/6
switch mode access
shutdown
end
```

Which three commands are required on interface fastethernet 5/6 in order to create a trunk link between another Cisco Catalyst Switch? (Choose three.)

- A. no shutdown



- B. switchport mode trunk
- C. encapsulation trunk
- D. switchport trunk encapsulation dot1Q
- E. switchport trunk enable
- F. no switchport
- G. interface fastethernet 5/6 trunk
- H. switchport trunk allow dot1Q

Correct Answer: ABD

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#### QUESTION 5

ISPs use which protocol to establish peering sessions in an Internet exchange point environment?

- A. LDP
- B. IS-IS
- C. BGP
- D. OSPF

Correct Answer: C

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