



200-101^{Q&As}

Interconnecting Cisco Networking Devices Part 2 (ICND2)

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QUESTION 1

The network administrator has been asked to give reasons for moving from IPv4 to IPv6. What are two valid reasons for adopting IPv6 over IPv4? (Choose two.)

- A. no broadcast
- B. change of source address in the IPv6 header
- C. change of destination address in the IPv6 header
- D. Telnet access does not require a password
- E. autoconfig
- F. NAT

Correct Answer: AE

Six Benefits Of IPv6 <http://www.networkcomputing.com/ipv6/six-benefits-of-ipv6/230500009>

With IPv6, everything from appliances to automobiles can be interconnected. But an increased number of IT addresses isn't the only advantage of IPv6 over IPv4. In honor of World IPv6 Day, here are six more good reasons to make sure your hardware, software, and services support IPv6. More Efficient Routing IPv6 reduces the size of routing tables and makes routing more efficient and hierarchical. IPv6 allows ISPs to aggregate the prefixes of their customers' networks into a single prefix and announce this one prefix to the IPv6 Internet. In addition, in IPv6 networks, fragmentation is handled by the source device, rather than the router, using a protocol for discovery of the path's maximum transmission unit (MTU).

More Efficient Packet Processing IPv6's simplified packet header makes packet processing more efficient. Compared with IPv4, IPv6 contains no IP-level checksum, so the checksum does not need to be recalculated at every router hop. Getting rid of the IP-level checksum was possible because most link-layer technologies already contain checksum and error-control capabilities. In addition, most transport layers, which handle end-to-end connectivity, have a checksum that enables error detection. Directed Data Flows IPv6 supports multicast rather than broadcast. Multicast allows bandwidth-intensive packet flows (like multimedia streams) to be sent to multiple destinations simultaneously, saving network bandwidth. Disinterested hosts no longer must process broadcast packets. In addition, the IPv6 header has a new field, named Flow Label, that can identify packets belonging to the same flow. Simplified Network Configuration Address auto-configuration (address assignment) is built in to IPv6. A router will send the prefix of the local link in its router advertisements. A host can generate its own IP address by appending its link-layer (MAC) address, converted into Extended Universal Identifier (EUI) 64-bit format, to the 64 bits of the local link prefix.

Support For New Services By eliminating Network Address Translation (NAT), true end-to-end connectivity at the IP layer is restored, enabling new and valuable services. Peer-to-peer networks are easier to create and maintain, and services such as VoIP and Quality of Service (QoS) become more robust. Security IPSec, which provides confidentiality, authentication and data integrity, is baked into IPv6. Because of their potential to carry malware, IPv4 ICMP packets are often blocked by corporate firewalls, but ICMPv6, the implementation of the Internet Control Message Protocol for IPv6, may be permitted because IPSec can be applied to the ICMPv6 packets.

QUESTION 2

The command `frame-relay map ip 10.121.16.8 102 broadcast` was entered on the router. Which of the following statements is true concerning this command?



- A. This command should be executed from the global configuration mode.
- B. The IP address 10.121.16.8 is the local router port used to forward data.
- C. 102 is the remote DLCI that will receive the information.
- D. This command is required for all Frame Relay configurations.
- E. The broadcast option allows packets, such as RIP updates, to be forwarded across the PVC.

Correct Answer: E

The command `frame-relay map ip 10.121.16.8 102 broadcast` means to map the remote IP 10.121.16.8 to the local DLCI 102. When the "broadcast" keyword is included, it turns Frame Relay network as a broadcast network, which can forward broadcasts.

QUESTION 3

Refer to the exhibit.

```
Switch# show port-security interface fa0/20
Port Security           : Enabled
Port Status             : Secure-up
Violation Mode          : Restrict
Aging Time              : 3 mins
Aging Type              : Inactivity
SecureStatic Address Aging : Disabled
Maximum MAC Addresses  : 2
Total MAC Addresses     : 2
Configured MAC Addresses : 0
Sticky MAC Addresses    : 2
Last Source Address:Vlan : 0009.7C10.8E8C:50
Security Violation Count : 1
```

What three actions will the switch take when a frame with an unknown source MAC address arrives at the interface? (Select three.)

- A. Send an SNMP trap.
- B. Send a syslog message.
- C. Increment the Security Violation counter.
- D. Forward the traffic.
- E. Write the MAC address to the startup-config.



F. Shut down the port.

Correct Answer: ABC

Switchport Security Concepts and Configuration

<http://www.ciscopress.com/articles/article.asp?p=1722561>

Switchport Security Violations

The second piece of switchport port-security that must be understood is a security violation including what it is what causes it and what the different violation modes that exist. A switchport violation occurs in one of two situations:

When the maximum number of secure MAC addresses has been reached (by default, the maximum number of secure MAC addresses per switchport is limited to

1) An address learned or configured on one secure interface is seen on another secure interface in the same VLAN The action that the device takes when one of these violations occurs can be configured:

Protect--This mode permits traffic from known MAC addresses to continue to be forwarded while dropping traffic from unknown MAC addresses when over the allowed MAC address limit. When configured with this mode, no notification action

is taken when traffic is dropped. Restrict--This mode permits traffic from known MAC addresses to continue to be forwarded while dropping traffic from unknown MAC addresses when over the allowed MAC address limit. When configured

with this mode, a syslog message is logged, a Simple Network Management Protocol (SNMP) trap is sent, and a violation counter is incremented when traffic is dropped.

Shutdown--This mode is the default violation mode; when in this mode, the switch will automatically force the switchport into an error disabled (err-disable) state when a violation occurs. While in this state, the switchport forwards no traffic.

The switchport can be brought out of this error disabled state by issuing the errdisable recovery cause CLI command or by disabling and re-enabling the switchport. Shutdown VLAN--This mode mimics the behavior of the shutdown mode but

limits the error disabled state the specific violating VLAN.

QUESTION 4

What OSPF command, when configured, will include all interfaces into area 0?

A. network 0.0.0.0 255.255.255.255 area 0

B. network 0.0.0.0 0.0.0.0 area 0

C. network 255.255.255.255 0.0.0.0 area 0

D. network all-interfaces area 0

Correct Answer: A



QUESTION 5

Which command is used to display the collection of OSPF link states?

- A. show ip ospf link-state
- B. show ip ospf lsa database
- C. show ip ospf neighbors
- D. show ip ospf database

Correct Answer: D

http://www.cisco.com/en/US/docs/ios/iproute_ospf/command/reference/iro_osp3.html#wp101217

Examples

The following is sample output from the show ip ospf database command when no arguments or keywords are used:

```
Router# show ip ospf database
```

```
OSPF Router with id(192.168.239.66) (Process ID 300)
```



Displaying Router Link States(Area 0.0.0.0)

Link ID	ADV Router	Age	Seq#	Checksum	Link count
172.16.21.6	172.16.21.6	1731	0x80002CFB	0x69BC	8
172.16.21.5	172.16.21.5	1112	0x800009D2	0xA2B8	5
172.16.1.2	172.16.1.2	1662	0x80000A98	0x4CB6	9
172.16.1.1	172.16.1.1	1115	0x800009B6	0x5F2C	1
172.16.1.5	172.16.1.5	1691	0x80002BC	0x2A1A	5
172.16.65.6	172.16.65.6	1395	0x80001947	0xEEE1	4
172.16.241.5	172.16.241.5	1161	0x8000007C	0x7C70	1
172.16.27.6	172.16.27.6	1723	0x80000548	0x8641	4
172.16.70.6	172.16.70.6	1485	0x80000B97	0xEB84	6

Displaying Net Link States(Area 0.0.0.0)

Link ID	ADV Router	Age	Seq#	Checksum
172.16.1.3	192.168.239.66	1245	0x800000EC	0x82E
172.16.240.0	172.16.241.5	1152	0x80000077	0x7A05
172.16.241.0	172.16.241.5	1152	0x80000070	0xAEB7
172.16.244.0	172.16.241.5	1152	0x80000071	0x95CB



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