



# 100-101<sup>Q&As</sup>

CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

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### QUESTION 1

Which protocol uses a connection-oriented service to deliver files between end systems?

- A. TFTP
- B. DNS
- C. FTP
- D. SNMP
- E. RIP

Correct Answer: C

FTP is an acronym for File Transfer Protocol. As the name suggests, FTP is used to transfer files between computers on a network. You can use FTP to exchange files between computer accounts, transfer files between an account and a desktop computer, or access online software archives

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### QUESTION 2

What does administrative distance refer to?

- A. the cost of a link between two neighboring routers
- B. the advertised cost to reach a network
- C. the cost to reach a network that is administratively set
- D. a measure of the trustworthiness of a routing information source

Correct Answer: D

[http://www.cisco.com/en/US/tech/tk365/technologies\\_tech\\_note09186a0080094195.shtml](http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a0080094195.shtml)

Administrative distance is the feature that routers use in order to select the best path when there are two or more different routes to the same destination from two different routing protocols. Administrative distance defines the reliability of a routing protocol. Each routing protocol is prioritized in order of most to least reliable (believable) with the help of an administrative distance value. Administrative distance is the first criterion that a router uses to determine which routing protocol to use if two protocols provide route information for the same destination. Administrative distance is a measure of the trustworthiness of the source of the routing information. The smaller the administrative distance value, the more reliable the protocol.

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### QUESTION 3

A company has placed a networked PC in a lobby so guests can have access to the corporate directory.

A security concern is that someone will disconnect the directory PC and re-connect their laptop computer and have access to the corporate network. For the port servicing the lobby, which three configuration steps should be performed on the switch to prevent this? (Choose three.)



- A. Enable port security.
- B. Create the port as a trunk port.
- C. Create the port as an access port.
- D. Create the port as a protected port.
- E. Set the port security aging time to 0.
- F. Statically assign the MAC address to the address table.
- G. Configure the switch to discover new MAC addresses after a set time of inactivity.

Correct Answer: ACF

If port security is enabled and the port is only designated as access port, and finally static MAC address is assigned, it ensures that even if a physical connection is done by taking out the directory PC and inserting personal laptop or device, the connection cannot be made to the corporate network, hence ensuring safety.

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#### QUESTION 4

Which three approaches can be used while migrating from an IPv4 addressing scheme to an IPv6 scheme? (Choose three)

- A. static mapping of IPv4 address to IPv6 addresses
- B. configuring IPv4 tunnels between IPv6 islands
- C. use DHCPv6 to map IPv4 addresses to IPv6 addresses
- D. use proxying and translation (NAT-PT) to translate IPv6 packets into IPv4 packets
- E. configure IPv6 directly
- F. enable dual-stack routing

Correct Answer: BDF

<http://www.opus1.com/ipv6/howdoitransitiontoipv6.html> Connecting IPv6 islands with tunnels An IPv6 island is a network made of IPv6 links directly connected by IPv6 routers. In the early days of IPv6 deployment, there are many IPv6

islands. IPv6 in IPv4 tunnels are used to connect those islands together. In each island, one (or more) dual stack routers are designated to encapsulate and decapsulate IPv6 packets within IPv4 packets. Different mechanisms have been

developed to manage tunnels: automatic tunnels3, configured tunnels3, tunnel brokers3, 6over43, 6to43,...

Reference 2:

<http://www.petri.co.il/ipv6-transition.htm>

Network Address Translation - Protocol Translation (NAT-PT) The NAT-PT method enables the ability to either statically or dynamically configure a translation of a IPv4 network address into an IPv6 network address and vice versa. For those



familiar with more typically NAT implementations, the operation is very similar but includes a protocol translation function. NAT-PT also ties in an Application Layer Gateway (ALG) functionality that converts Domain Name System (DNS)

mappings between protocols.

Dual Stack

The simplest approach when transitioning to IPv6 is to run IPv6 on all of the devices that are currently running IPv4. If this is something that is possible within the organizational network, it is very easy to implement.

However, for many organizations, IPv6 is not supported on all of the IPv4 devices; in these situations other methods must be considered.

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### QUESTION 5

Some routers have been configured with default routes. What are some of the advantages of using default routes? (Choose two)

- A. They establish routes that will never go down.
- B. They keep routing tables small.
- C. They require a great deal of CPU power.
- D. They allow connectivity to remote networks that are not in the routing table
- E. They direct traffic from the internet into corporate networks.

Correct Answer: BD

Cisco administration 101: What you need to know about default routes Reference:

<http://www.techrepublic.com/article/cisco-administration-101-what-you-need-to-know-about-default-routes/>

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