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**QUESTION 1**

Which three options are switchport config that can always avoid duplex mismatch error between the switches? (Choose Three.)

- A. set both side on auto-negotiation
- B. set both sides on half-duplex
- C. set one side auto and other side half-duplex
- D. set both side of connection to full-duplex
- E. set one side auto and other side on full-duplex
- F. set one side full-duplex and other side half-duplex

Correct Answer: ABD

QUESTION 2

Under which circumstance should a network administrator implement one-way NAT?

- A. when the network must route UDP traffic
- B. when traffic that originates outside the network must be routed to internal hosts
- C. when traffic that originates inside the network must be routed to internal hosts
- D. when the network has few public IP addresses and many private IP addresses require outside access

Correct Answer: B

Explanation: NAT operation is typically transparent to both the internal and external hosts. Typically the internal host is aware of the true IP address and TCP or UDP port of the external host. Typically the NAT device may function as the default gateway for the internal host. However the external host is only aware of the public IP address for the NAT device and the particular port being used to communicate on behalf of a specific internal host. NAT and TCP/UDP "Pure NAT", operating on IP alone, may or may not correctly parse protocols that are totally concerned with IP information, such as ICMP, depending on whether the payload is interpreted by a host on the "inside" or "outside" of translation. As soon as the protocol stack is traversed, even with such basic protocols as TCP and UDP, the protocols will break unless NAT takes action beyond the network layer. IP packets have a checksum in each packet header, which provides error detection only for the header. IP datagrams may become fragmented and it is necessary for a NAT to reassemble these fragments to allow correct recalculation of higher-level checksums and correct tracking of which packets belong to which connection. The major transport layer protocols, TCP and UDP, have a checksum that covers all the data they carry, as well as the TCP/UDP header, plus a "pseudo-header" that contains the source and destination IP addresses of the packet carrying the TCP/UDP header. For an originating NAT to pass TCP or UDP successfully, it must recompute the TCP/UDP header checksum based on the translated IP addresses, not the original ones, and put that checksum into the TCP/UDP header of the first packet of the fragmented set of packets. The receiving NAT must recompute the IP checksum on every packet it passes to the destination host, and also recognize and recompute the TCP/UDP header using the retranslated addresses and pseudo-header. This is not a completely solved problem. One solution is for the receiving NAT to reassemble the entire segment and then recompute a checksum calculated across all packets. The originating host may perform Maximum transmission unit (MTU) path discovery to determine the packet size that can be transmitted without fragmentation, and then set the don't fragment (DF) bit in the appropriate packet header field. Of



course, this is only a one- way solution, because the responding host can send packets of any size, which may be fragmented before reaching the NAT.

QUESTION 3

A Cisco router is booting and has just completed the POST process. It is now ready to find and load an IOS image. What function does the router perform next?

- A. It checks the configuration register.
- B. It attempts to boot from a TFTP server.
- C. It loads the first image file in flash memory.
- D. It inspects the configuration file in NVRAM for boot instructions.

Correct Answer: A

Default (normal) Boot Sequence Power on Router - Router does POST - Bootstrap starts IOS load - Check configuration register to see what mode the router should boot up in (usually 0x2102 to read startup- config in NVRAM / or 0x2142 to start in "setup-mode") - check the startup-config file in NVRAM for boot-system commands - load IOS from Flash.

QUESTION 4

What are the two minimum required components of a DHCP binding? (Choose two.)

- A. a DHCP pool
- B. an exclusion list
- C. a hardware address
- D. an IP address
- E. an ip-helper statement

Correct Answer: CD

QUESTION 5

Which Cisco Catalyst feature automatically disables the port in an operational PortFast upon receipt of a BPDU?

- A. BackboneFast
- B. UplinkFast
- C. Root Guard
- D. BPDU Guard



E. BPDU Filter

Correct Answer: D

We only enable PortFast feature on access ports (ports connected to end stations). But if someone does not know he can accidentally plug that port to another switch and a loop may occur when BPDUs are being transmitted and received on these ports. With BPDU Guard, when a PortFast receives a BPDU, it will be shut down to prevent a loop.

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