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However, in a lab environment, the clock rate command is required on the DCE end when interconnecting two serial interfaces. This would be an event that has halted the system. DTP is beyond the scope of this course. Then use the no shutdown interface configuration command to make the port operational. The Cisco IOS DHCPv4 server assigns and manages IPv4 addresses from specified address pools within the router to DHCPv4 clients. PC1 sends its unicast traffic to switch S2. How do you use LLDP to map a network topology? Stratum 2 devices, such as NTP clients, synchronize their time using the NTP packets from stratum 1 servers. In this topology, the router located at the Home Office is a specialized device that performs multiple services for the home network. Example 10-9 Discovering Device Connected to S2 Click here to view code image S2# Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge S - Switch, H - Host, I - IGMP, r Repeater, P - Phone, D - Remote, C - CVTA, M - Two-port Mac Relay Device ID ID S1 I Local Intrfce Fas 0/4 WS-C2960- Fas 0/4 Holdtime 173 Capability Platform S The only device connected to S2 is S1. In this case, the RA message informs the client not to use the information in the RA message. PC1 can create a 128-bit IPv6 global unicast address by combining the 64-bit prefix with the 64-bit ID. DHCPv6 messages are sent over UDP. A production switch is reloaded and finishes with a Switch# prompt. This is the IP address outside clients will use to reach the internal host. show version 21. 168 Robinson Road #28-01 Capital Tower Singapore 068912 www.cisco.com Tel: +65 6317 7777 Fax: +65 6317 7799 Europe Headquarters Cisco Systems International BV Haarlerbergpark Haarlerbergweg 13-19 1101 CH Amsterdam The Netherlands www-europe1.cisco.com Tel: +31 0 800 020 0791 Fax:+31 0 20 357 1100 Cisco has more than 200 offices worldwide. When the packet from Svr2 arrives, R2 performs a similar translation. DHCP Page 363 DHCPv4 Page 363 DHCPv6 Page 363 lease Page 364 DHCPDISCOVER message Page 365 DHCPOFFER message Page 365 DHCPREQUEST message Page 366 DHCPACK message Page 366 DHCP Options Page 368 client IPv4 address (CIADDR) Page 369 default gateway address (GIADDR) Page 369 Cisco IOS helper address Page 378 DHCPv4 relay agent Page 378 stateless address autoconfiguration (SLAAC) Page 387 stateless DHCPv6 server Page 388 stateful DHCPv6 Page 388 stateful DHCPv6 server Page 388 Internet Control Message Protocol version 6 (ICMPv6) Page 388 router solicitation (RS) message Page 388 router advertisement (RA) message Page 389 interface ID (IID) Page 390 EUI-64 Page 390 neighbor solicitation (NS) message Page 390 solicited-node multicast address Page 390 neighbor advertisement (NA) message Page 390 duplicate address detection (DAD) Page 390 Managed Address Configuration flag (M flag) Page 390 Other Configuration flag (O flag) Page 390 DHCPv6 SOLICIT message Page 394 DHCPv6 ADVERTISE unicast message Page 394 DHCPv6 REQUEST message Page 394 DHCPv6 INFORMATION-REQUEST message Page 394 stateless DHCPv6 client Page 395 stateful DHCPv6 client Page 395 DHCPv6 REPLY unicast message Page 395 Introduction (8.0.1.1) Every device that connects to a network needs a unique IP address. It is an IOS version that provides only the IPBase feature set. Hosts in the 192.168.0.0/16 network are subject to translation. The EULA is automatically applied to all Cisco IOS software licenses. Numbered Standard IPv4 ACL Examples (7.2.1.3) Example 7-5 demonstrates an ACL that permits a specific subnet except for a specific host on that subnet. Screen hosts to permit or deny access to network services. Some global enterprises could be large enough to need extended range VLAN IDs. In contrast, normal range VLANs on these switches are numbered 1 to 1005. The native VLAN is changed to VLAN 99, and the allowed VLAN list is restricted to 10, 20, 30, and 99. Purchase the Software Package or Feature to Install (10.3.4.3) Step 2. Therefore, VLAN design must consider the implementation of a hierarchical network-addressing scheme. Packet Tracer 7.2.3.3: Configuring an IPv4 ACL on VTY Lines As the administrator of a network, you need to have remote access to your router. Figure 1-11 Sample LAN and WAN Connections Home Office devices can connect as follows: Laptops and tablets connect wirelessly to a home router. 2 E. In this example, the AD of 120 is put at the end of the static route: ip route 209.165.200.228 255.255.255.248 10.0.0.1 120. Set static routing stub routers, 79-80 Syslog commands, 499-500 Routing Information Protocol. When this type of translation is configured, the router maintains enough information from higher-level protocols, TCP or UDP port numbers, for example, to translate the inside global address back into the correct inside local address. When sticky secure MAC addresses are configured by using the switchport portsecurity mac-address sticky mac-address interface configuration mode command, all specified addresses are added to the address table and the running configuration. Device maintenance includes ensuring that Cisco IOS images and configuration files are backed up in a safe location in the event that the device memory is corrupted or erased, either maliciously or inadvertently. Recall that Internet software applications interact with user ports that need to be open or available to those applications. The IPv4 address of the router interface on the local subnet acts as the default gateway for the sending device.

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