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Implementing a subnetted ipv6 addressing scheme answer

Your network administrator wants you to assign five /64 IPv6 subnets to the network that appears in the topology. Your job is to determine the IPv6 subnets, assign IPv6 addresses to the routers, and set the computers to automatically receive IPv6 addressing. Your final step is to verify the connection between IPv6 hosts. Package tracer - Implement a subnetted IPv6 Addressing Scheme Instructions Package Tracer - Implement a subnetted IPv6 addressing scheme - PKA Packet Tracer - Implement a subnetted IPv6 Addressing Scheme Addressing Table Case Case Part 1: Determine IPv6 Subnet and Addressing Scheme Part 2: Configure IPv6 addressing on routers and computers and Verify connection scenario The network administrator wants you to assign five /64 IPv6 subnets to the network that appears in the topology. Your job is to determine the IPv6 subnets, assign IPv6 addresses to the routers, and set the computers to automatically receive IPv6 addressing. Your final step is to verify the connection between IPv6 hosts. Part 1: Determine the IPv6 subnets and addressing scheme step 1: Determine the number of subnets needed. Start with the IPv6 subnet 2001:DB8:ACAD:00C8::/64 and assign it to the R1 LAN associated with GigabitEthernet 0/0, as shown in the subnet table. For the rest of the IPv6 subnets, step into the subnet 2001:DB8:ACAD:00C8::/64 by 1, and complete the subnet table with the IPv6 subnet addresses. Step 2: Assign IPv6 addressing to the routers. A. Assign the first IPv6 addresses to R1 for the two LAN links and the WAN link. B. Assign the first IPv6 addresses to R2 for the two LANs. Assign the second IPv6 address for the WAN link. c. Document the IPv6 addressing schedule in the addressing table. Part 2: Configure IPv6 Addressing on Routers and Computers and Verify Connection Step 1: Configure routers with IPv6 addressing. Note: This network is already configured with some IPv6 commands covered in a later course. At this point in your studies, you just need to know how to configure the IPv6 address on an interface. Configure R1 and R2 with the IPv6 addresses that you specified in the Address ass table and enable the interfaces. Router(config-if)# ipv6 address ipv6-address/prefix Router(config-if)# ipv6 address ipv6-link-local link-local Step 2: Configure computers to automatically receive IPv6 addressing. Configure the four computers for autoconfiguration. Each should then automatically receive full IPv6 addresses from the routers. Step 3: Verify connection between computers. Each PC should be able to ping the other computers and routers. Proposed Assessment Rail Configuration R1: enable configure terminal interface g0/0 ipv6 address 2001:DB8:ACAD:00C8::1/64 ipv6 address FE80::1 link-local no shutdown interface g0/1 ipv6 address 2001:DB8:ACAD:00C8::1/64 ipv6 address FE80::1 link-local no shutdown interface s0/0/0 ipv6 address 2001:DB8:ACAD:00CA::1/64 ipv6 address FE80::1 link-local no shutdown ! R2: enable configure terminal interface g0/0 ipv6 address ipv6 address ipv6 address ipv6 address FE80::2 link-local no shutdown interface g0/1 ipv6 address 2001:DB8:ACAD:00C8::1/64 ipv6 address FE80::2 link-local no shutdown interface s0/0/0 ipv6 address 2001:DB8:ACAD:00CC::1/64 ipv6 address FE80:2 link-local Configuration PC1: Configuration PC2: Configuration PC3: Configuration PC4: My channel: Facebook: Instructor Note: Red font color or gray highlights indicate text displayed in the instructor copy only Device Interface IPv6 Address Link-local Address R1 G0/0 2001:db8:acad:00c8:1/1/1/1 64 fe80::1 R1 G0/1 2001:db8:acad:00c9::1/64 fe80::1 R1 S0/0/0 2001:db8:acad:00cc::1/64 fe80::1 R2 G0/0 2001:db8:acad:00ca::1/64 fe80::2 R2 G0/1 2001:db8:acad:00cb::1/64 fe80:::2 R2 S0/0/0 2001:db8:acad:00cc::2/64 fe80::2 PC1 NIC Auto Config PC2 NIC Auto Config PC3 NIC Auto Config PC4 NIC Auto Config Step 1: Determine IPv6 subnet and addressing schedule. Step 2: Configure IPv6 addressing on routers and PCs. Step 3: Verify IPv6 connection. Network administrators need to know how to implement IPv6 on their networks. You have been asked to set up a network to use the sales staff for a customer demonstration. The network will use a series of consecutive IPv6 subnets for four LAN. Your job is to assign the subnets to DE numbers and configure the routers and PCs with IPv6 addressing. Allows some to configure all necessary components for IPv6 routing on the routers. You have received the IPv6 subnet 2001:db8:acad:00c8::/64 as the boot subnet. You will need four additional subnets for each required network. Step the subnet addresses in succession with one to arrive at the four mandatory subnets. Complete the table below. Subnet table Subnet address R1 G0/0 LAN 2001:db8:acad:00c8::0/64 R1 G0/1 LAN 2001:db8:acad:00c9::0/64 R2 G0/0 LAN 2001:db8:acad:00ca::0/64 R2 G0/1 LAN 2001:db8:acad:00cb::0/64 R1 to R2 link network 2001:db8:acad:00cc::0/64 Complete the addressing table above to use as a guide for configuring the devices. Assign the first IP address in the subnet to the router's LAN interface. Assign the link-local addresses that they have been designated in the addressing table. For the connection between the routers, assign the first address in the subnet to R1. For the connection between the routers, assign the second address in the subnet to R2. Set all four hosts to automatically configure with IPv6 addresses. Computers should be able to ping each other if addressing is configured correctly. enable configure terminal ipv6 unicast routing interface GigabitEthernet0/0 ipv6 address fe80::1 link-local ipv6 address 2001:db8:acad:c8::1/64 no shutdown interface GigabitEthernet0/1 ipv6 address fe80::1 link-local ip v6 address 2001:db8:acad:c9::1/64 no shutdown interface Serial0/0/0 ipv6 address fe80::1 link-local ipv6 2001:db8:acad:cc::1/64 no shutdown enable configure terminal ipv6 unicast-routing interface interface ipv6 address fe80::2 link-local ipv6 address 2001:db8:acad:ca::1/64 no shutdown interface GigabitEthernet0/1 ipv6 address fe80::2 link-local ipv6 address 2001:db8:acad:cb:1/64 no shutdown interface Serial Interface0/0/0 ipv6 fe-address 80::2 link-local ipv6 address 2001:db8:acad:cc::2/64 no shutdown end Previous Lab 12.6.6 Packet Tracer – Configure IPv6 Addressing Next Lab 13.2.6 Packet Tracer – Verify IPv4 and IPv6 Addressing Answer Note: Red Font Color or Gray indicates highlights text that appears in the reply copy only. Optional activities are designed to increase understanding and/or to provide additional practice. Topology 8.3.1.4 Package Tracer – Implement a subnetted IPv6 Addressing Scheme Addressing Table Device Interface IPv6 address Link-Local R1 G0/0 2001:DB8:ACAD:00C8::1/64 FE80:1 G0/1 2001:DB8:ACAD:00C9::1/64 FE80:1 S0/0/0 2001:DB8:ACAD:00CC::1/64 FE80:1 R2 G0/0 2001:DB8:ACAD:00CA::1/64 FE80:2 G0/1 2001:DB8:ACAD:00CB::1/64 FE80:2 S0/0/0 2001:DB8:ACAD:00CC::2/64 FE80:2 PC1 NIC Auto Config PC2 NIC Auto Config PC3 NIC Auto Config PC4 NIC Auto Config Objectives Part 1: Determine the IPv6 subnets and addressing scheme part 2: Configure IPv6 addressing on Routers and PC and Verify Connectivity Scenario Your network administrator wants you to assign five /64 IPv6 subnets to the network as shown in the topology. Your job is to determine the IPv6 subnets, assign IPv6 addresses to the routers, and set the computers to automatically receive IPv6 addressing. Your final step is to verify the connection between IPv6 hosts. Part 1: Determine the IPv6 subnets and addressing scheme step 1: Determine the number of subnets needed. Start with the IPv6 subnet 2001:DB8:ACAD:00C8::/64 and assign it to the R1 LAN associated with GigabitEthernet 0/0, as shown in the subnet table. For the rest of the IPv6 subnets, step into the subnet 2001:DB8:ACAD:00C8::/64 by 1 and complete the subnet table with the IPv6 subnet addresses. Subnet table subnet Description Subnet Address R1 G0/0 LAN 2001:DB8:ACAD:00C8::0/64 R1 G0/1 LAN 2001:DB8:ACAD:00C9::0/64 R2 G0/0 LAN 2001:DB8:DB8:00C9::0/64 R2 G0/0 LAN 2001:DB8:DB8:00CA::0/64 R2 G0/0 LAN 2001:DB8:DB8:00CB::0/64 R2 G0/0 LAN 2001:DB8:DB8:00CC::0/64 R2 G0/0 LAN 2001:DB8:DB8:00CD::0/64 R2 G0/0 LAN 2001:DB8:DB8:00CE::0/64 R2 G0/0 LAN 2001:DB8:DB8:00CF::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D0::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D1::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D2::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D3::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D4::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D5::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D6::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D7::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D8::0/64 R2 G0/0 LAN 2001:DB8:DB8:00D9::0/64 R2 G0/0 LAN 2001:DB8:DB8:00DA::0/64 R2 G0/0 LAN 2001:DB8:DB8:00DB::0/64 R2 G0/0 LAN 2001:DB8:DB8:00DC::0/64 R2 G0/0 LAN 2001:DB8:DB8:00DD::0/64 R2 G0/0 LAN 2001:DB8:DB8:00DE::0/64 R2 G0/0 LAN 2001:DB8:DB8:00DF::0/64 R2 G0/0 LAN 2001:DB8:DB8:00E0::0/64 R2 G0/0 LAN 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G0/0 LAN 2001:DB8:DB8:00FD::0/64 R2 G0/0 LAN 2001:DB8:DB8:00FE::0/64 R2 G0/0 LAN 2001:DB8:DB8:00FF::0/64 R2 G0/0 LAN 2001:DB8:DB8:0100::0/64 R2 G0/0 LAN 2001:DB8:DB8:0101::0/64 R2 G0/0 LAN 2001:DB8:DB8:0102::0/64 R2 G0/0 LAN 2001:DB8:DB8:0103::0/64 R2 G0/0 LAN 2001:DB8:DB8:0104::0/64 R2 G0/0 LAN 2001:DB8:DB8:0105::0/64 R2 G0/0 LAN 2001:DB8:DB8:0106::0/64 R2 G0/0 LAN 2001:DB8:DB8:0107::0/64 R2 G0/0 LAN 2001:DB8:DB8:0108::0/64 R2 G0/0 LAN 2001:DB8:DB8:0109::0/64 R2 G0/0 LAN 2001:DB8:DB8:010A::0/64 R2 G0/0 LAN 2001:DB8:DB8:010B::0/64 R2 G0/0 LAN 2001:DB8:DB8:010C::0/64 R2 G0/0 LAN 2001:DB8:DB8:010D::0/64 R2 G0/0 LAN 2001:DB8:DB8:010E::0/64 R2 G0/0 LAN 2001:DB8:DB8:010F::0/64 R2 G0/0 LAN 2001:DB8:DB8:0110::0/64 R2 G0/0 LAN 2001:DB8:DB8:0111::0/64 R2 G0/0 LAN 2001:DB8:DB8:0112::0/64 R2 G0/0 LAN 2001:DB8:DB8:0113::0/64 R2 G0/0 LAN 2001:DB8:DB8:0114::0/64 R2 G0/0 LAN 2001:DB8:DB8:0115::0/64 R2 G0/0 LAN 2001:DB8:DB8:0116::0/64 R2 G0/0 LAN 2001:DB8:DB8:0117::0/64 R2 G0/0 LAN 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G0/0 LAN 2001:DB8:DB8:016B::0/64 R2 G0/0 LAN 2001:DB8:DB8:016C::0/64 R2 G0/0 LAN 2001:DB8:DB8:016D::0/64 R2 G0/0 LAN 2001:DB8:DB8:016E::0/64 R2 G0/0 LAN 2001:DB8:DB8:016F::0/64 R2 G0/0 LAN 2001:DB8:DB8:0170::0/64 R2 G0/0 LAN 2001:DB8:DB8:0171::0/64 R2 G0/0 LAN 2001:DB8:DB8:0172::0/64 R2 G0/0 LAN 2001:DB8:DB8:0173::0/64 R2 G0/0 LAN 2001:DB8:DB8:0174::0/64 R2 G0/0 LAN 2001:DB8:DB8:0175::0/64 R2 G0/0 LAN 2001:DB8:DB8:0176::0/64 R2 G0/0 LAN 2001:DB8:DB8:0177::0/64 R2 G0/0 LAN 2001:DB8:DB8:0178::0/64 R2 G0/0 LAN 2001:DB8:DB8:0179::0/64 R2 G0/0 LAN 2001:DB8:DB8:017A::0/64 R2 G0/0 LAN 2001:DB8:DB8:017B::0/64 R2 G0/0 LAN 2001:DB8:DB8:017C::0/64 R2 G0/0 LAN 2001:DB8:DB8:017D::0/64 R2 G0/0 LAN 2001:DB8:DB8:017E::0/64 R2 G0/0 LAN 2001:DB8:DB8:017F::0/64 R2 G0/0 LAN 2001:DB8:DB8:0180::0/64 R2 G0/0 LAN 2001:DB8:DB8:0181::0/64 R2 G0/0 LAN 2001:DB8:DB8:0182::0/64 R2 G0/0 LAN 2001:DB8:DB8:0183::0/64 R2 G0/0 LAN 2001:DB8:DB8:0184::0/64 R2 G0/0 LAN 2001:DB8:DB8:0185::0/64 R2 G0/0 LAN 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