

Cisco newbie1.pkt Solution

10/15/2021

1. Ensure all devices are powered on (View > Show Workspace List, or "Physical" view of devices)
2. Configure PCs:
 - a. Config > Global Settings > Gateway DNS IPv4: "Static"
 - i. Default Gateway set to appropriate address for subnetwork (eg, PC6 = 192.168.0.1)
 - ii. DNS set to appropriate address for subnetwork, typically same as Gateway address (eg, PC6 = 192.168.0.1)
 - b. Config > Interface > FastEthernet0 > IP Configuration: "Static"
 - i. IPv4 Address set to address specified in directions (eg, PC6 = 192.168.0.3)
 - ii. Subnet Mask set to appropriate Class C (255.255.255.0)
 - c. Port Status = On, Bandwidth = Auto, Duplex = Auto
3. From PC5 Desktop > Command Prompt: ping PC6 IP address (eg, ping 192.168.0.3), confirm working replies.
4. From PC3 Desktop > Command Prompt: ping PC4 IP address (eg, ping 192.168.1.3), confirm working replies.
5. NOTE: this shows that PCs are properly connected to their respective IP subnetworks and their subnet switches are passing IP packets between PCs within their subnetworks.
6. Router0:
 - a. Configure interfaces with IP addresses and bring them up:
 - i. If not in privileged admin mode: Enable
 - ii. Enter Global Config mode: Config T
 - iii. Select interface going to Switch0: int fa0/0
 - iv. Set sub-network Gateway IPv4 address & subnet mask: ip addr 192.168.0.1 255.255.255.0
 - v. Bring interface Up: no shut (note confirmation and diagram connection turning green)
 - vi. Select interface going to Switch1: int eth1/0
 - vii. Set sub-network Gateway IPv4 address & subnet mask: ip addr 192.168.1.1 255.255.255.0
 - viii. Bring interface Up: no shut (note confirmation and diagram connection turning green)
 - ix. Exit to Admin level (# prompt)
 - x. Ping all PCs (eg, ping 192.168.0.3), confirm working replies
7. Ping between PCs in different subnets:
 - a. Desktop > Command Prompt: example, from PC6 ping PC3, ie, ping 192.168.1.3, confirm working replies
8. NOTE: this shows that PCs are now able to pass IP packets between the different subnetworks