Packet Tracer - Configure DHCP on a Wireless Router

Objectives

· Connect 3 PCs, a laptop, and mobile phone to a wireless router

· Change the DHCP setting to a specific network range

· Configure the clients to obtain their address via DHCP

Background / Scenario

A home user wants to use a wireless router to connect 3 PCs, 1 laptop and 1 phone. All devices should obtain their address automatically from the wireless router.

Instructions

Part 1: Set up the network topology

1. Add three generic PCs.
2. Add a generic laptop
3. Add a mobile phone

b. Connect each PC to an Ethernet port to the wireless router using straight-through cables.

c. Connect the laptop and phone wirelessly to the wireless router.

Part 2: Observe the default DHCP settings

a. After the amber lights have turned green, click each device. Click the Desktop tab. Select IP Configuration. Select DHCP to receive an IP address from DHCP Enabled Router.

Question:

Record the IP address of the default gateway:

Record the IP address of each device.

Part 3: Change the default DHCP range of addresses.

a. Notice the DHCP Server Start IP Address is updated to the same network as the Router IP.

b. Change the Starting IP Address from 192.168.5.100 to 192.168.5.126.

c. Change the Maximum Number of Users to 75.

d. Scroll to the bottom of the page and click Save Settings.

e. Click IP Configuration to renew the assigned IP address. Click Static. Click DHCP to receive new IP address information from the wireless router.

f. Select Command Prompt. Enter ipconfig.

Question:

Record the new IP address of each device.

Part 6: Verify connectivity

1. The pings to all devices should be successful.

Filename is yourfullname\_DHCP

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