

EX 10B PROCEDURE:

1. **Open Cisco Packet Tracer** and create a new project workspace.
2. **Add devices:** Drag a wireless router, a DHCP server (simulated with a PC), and an Internet cloud icon into the workspace.
3. **Connect devices:**
 - Connect the wireless router to the Internet cloud using a copper straight-through cable.
 - Connect the DHCP server to the wireless router's LAN port (e.g., FastEthernet0).
4. **Configure the wireless router:**
 - Click on the wireless router and go to the GUI tab.
 - Under the **Wireless** settings, set the SSID (e.g., "HomeNetwork").
 - In the **Setup** tab, ensure DHCP is enabled and configure DNS settings (e.g., DNS Server: 208.67.220.220).
5. **Set up DHCP on the DHCP server:**
 - Click on the DHCP server (PC), go to the Desktop tab, and open the command prompt.
 - Configure a DHCP scope
 - This will allow devices to receive IP addresses in the range of 192.168.0.1 to 192.168.0.254.
6. **Configure IP address for the wireless router:**
 - Access the CLI of the wireless router and assign an IP address
7. **Add clients:** Drag several PCs or laptops into the workspace and connect them wirelessly to the router.
8. **Configure clients for wireless access:** On each PC, go to the Desktop tab, select Wireless, find "HomeNetwork," and connect using any security key if prompted.
9. **Verify DHCP functionality:** On each PC, open Command Prompt and run `ipconfig /all` to confirm they receive IP addresses from the DHCP server.
10. **Test Internet connectivity:** From any connected PC, use Command Prompt to ping an external site to verify that internet access is functioning through the cloud.