Lab Activity: Home Office and Small Business Network Setup

Scenario:
You have been assigned to design a simple network for a small business that needs both wired and wireless connectivity for their devices. The business requires a server for file sharing, a printer for office tasks, and a combination of desktops, laptops, and smartphones to be connected to the network.

Task:

Objective: Create a basic network using Cisco Packet Tracer, incorporating both wired and wireless devices.

Network Components:

- 1 Wireless Router
- 1 Server (for file sharing)
- 1 Printer
- 5 Smartphones (wireless connection)
- 10 Desktop Computers (wired connection)
- 5 Laptops (wireless connection)
- 1 Switch (to connect wired devices)

Requirements:

- Connect the desktops to the switch, and the switch to the wireless router.
- Connect all smartphones and laptops to the network via the wireless router.
- Assign IP addresses to each device to ensure they are all on the same network.
- Ensure the server can communicate with all devices for file sharing.
- Configure the printer to be accessible to all desktops, laptops, and smartphones.

Expected Outcome:

- All devices should be able to communicate with each other and the server.
- Smartphones, laptops, and desktops should be able to print to the printer.
- The network should be organized with proper labeling and IP addresses.

Challenge:

Set up DHCP on the router to automatically assign IP addresses to the smartphones and laptops.
Good luck, and please send your Packet Tracer file once completed!

Reminder: Please save your activity. We will check it tomorrow.