

## Experiment - 5

Aim: Install a print server in LAN

### Step 1: Network Setup

1. Opened Cisco Packet Tracer and added the following devices:
  - 1 x Server (acting as the print server)
  - 1 x Printer
  - 1 x Switch
  - 2 x PCs
2. Connected all devices using Copper Straight-Through cables.

### Step 2: Configure IP Addresses

1. Server (Print Server) Configuration
  - Click on Server0 > Config > FastEthernet0.
  - Set:

IP Address: 192.168.1.1  
Subnet Mask: 255.255.255.0

- Save the settings.
2. Printer Configuration
    - Click on Printer > Config > FastEthernet0.
    - Set:

IP Address: 192.168.1.10  
Subnet Mask: 255.255.255.0  
Default Gateway: 192.168.1.1

- Save the settings.
3. PC1 and PC2 Configuration
    - Click on PC1 > Desktop > IP Configuration.
    - Set:

IP Address: 192.168.1.100  
Subnet Mask: 255.255.255.0  
Default Gateway: 192.168.1.1

- Repeat the same process for PC2, setting its IP to 192.168.1.101.

### Step 3: Enable FTP Service on the Server

1. Click on Server0 > Services tab.
2. Select FTP from the services list.
3. Click ON to enable the FTP server.
4. Create a new FTP user:

Username: printer

Password: 1234

5. Save the settings.

#### Step 4: Create a File on PC1

1. Click on PC1 > Desktop > Text Editor.
2. Type a sample text (e.g., "Test print job").
3. Click Save As and name the file test\_print.txt.
4. Ensure the file is saved.

#### Step 5: Upload the File to the Print Server via FTP

1. Click on PC1 > Desktop > Command Prompt.
2. Connect to the FTP server:

```
ftp 192.168.1.1
```

3. Enter the FTP credentials:

```
Username: printer  
Password: 1234
```

4. Upload the file:

```
put test_print.txt
```

5. If successful, the file will be transferred to the server.

#### Step 6: Verify the Uploaded File

1. Click on Server0.
2. Go to Services > FTP.
3. Check if test\_print.txt appears in the uploaded files list.