Page 1: Introduction to FTP Server in Cisco Packet Tracer

What is FTP?

- **FTP (File Transfer Protocol)**: A standard network protocol used to transfer files between a client and server over a network.
- **Uses**: FTP is commonly used for sharing files, backups, and software updates.

FTP in Cisco Packet Tracer

- Packet Tracer allows users to simulate FTP server-client interactions in a virtual environment.
- **Key Components**:
    1. **Server**: Configured to host and manage files.
    2. **Client**: Accesses and downloads/upload files from the server.

Topology Design

- **Devices Used**:
    1. A server (e.g., **Generic Server** in Packet Tracer).
    2. A client device (e.g., **PC** or **Laptop**).
    3. A switch or a router to connect devices.
- **IP Addressing**:
    - Ensure all devices are in the same network or configured with proper routing.

Page 2: Configuration Steps

Step-by-Step FTP Server Configuration

1. **Add Devices**:
    - Drag and drop a server and a PC from the device list.
    - Connect them using a switch or directly with a crossover cable.
2. **Configure IP Addresses**:
    - Assign static IP addresses to the server and the PC.
    - Example:
        - **Server IP**: 192.168.1.1
        - **Client IP**: 192.168.1.2
        - Subnet Mask: 255.255.255.0
3. **Enable FTP Service on the Server**:
    - Click on the server.
    - Go to **Services > FTP**.
    - Turn on the FTP service.
    - Add files to the FTP server if needed.

4. **Test the FTP Connection**:
    - On the PC, open the **Command Prompt** (Desktop > Command Prompt).
    - Use the FTP command:

Copy code

ftp 192.168.1.1

    - Provide the username and password if required.
    - Test file upload and download commands:
        - **Upload**: put filename
        - **Download**: get filename

Troubleshooting Tips:

- Ensure devices are on the same network.
- Verify the FTP service is running on the server.
- Check connectivity using the **ping** command.