**Simple Steps to Configure DNS in Packet Tracer**

1️)**Set up the network:**

* Add **1 server, 2 PCs, and a router** in Packet Tracer.
* Connect them with cables.

2️)**Assign IP addresses:**

* **Server:** 192.168.1.2
* **PC0:** 192.168.1.3
* **PC1:** 192.168.1.4
* **Subnet Mask:** 255.255.255.0 (for all)
* **Default Gateway:** 192.168.1.1
* **DNS Server:** 192.168.1.2

3️)**Set up DNS on the server:**

* Click the **Server** → **Services** → **DNS**.
* Turn **ON** the DNS service.
* Add names and IPs:
  + **PC0 → 192.168.1.3**
  + **PC1 → 192.168.1.4**
  + **Server → 192.168.1.2**
* Click **Add** and **Save**.

4️)**Test DNS:**

* Open **Command Prompt** on **PC0**.
* Type ping PC1.
* If setup is correct, PC1's name will resolve to **192.168.1.4**.

✅ **Done! Your DNS server is working!** 🚀

**Simple Steps to Configure a Mail Server in Packet Tracer**

**1. Build the Network**

* Add **Mail Server, DNS Server, PC0, and PC1**.
* Connect them using cables.

**2. Assign IP Addresses**

* **Mail Server:** 192.168.1.2
* **DNS Server:** 192.168.1.5
* **PC0:** 192.168.1.3
* **PC1:** 192.168.1.4

**3. Configure the Mail Server**

1. Click on **Mail Server** → **Services** → **Email**.
2. Set **Domain Name:** mail.com.
3. Add Users:
   * **client1** (Password: adminkim)
   * **client2** (Password: adminkim)

**4. Configure the DNS Server**

1. Click on **DNS Server** → **Services** → **DNS**.
2. Turn **ON** DNS.
3. Add **mail.com** → IP **192.168.1.2**.

**5. Setup Email Clients on PCs**

1. Click **PC0** → **Desktop** → **Email**.
2. Enter username, mail server (mail.com), and login details.
3. Repeat the same for **PC1**.

**6. Send and Receive Emails**

* On **PC0**, send an email to client2@mail.com.
* On **PC1**, click **Receive** to check for the email.

**✅ If the email is received, the setup is successful!** 🚀

**Step-by-Step Guide: Configuring a DHCP Server in Packet Tracer**

**1. Build the Network Topology**

* Create a network with a **Router, DHCP Server, and PCs**.
* Connect them using appropriate cables.

**2. Configure the Router as a DHCP Server**

**Set Up the Router’s Interface**

1. Open the Router CLI.
2. Enter the following commands:
3. Router>enable
4. Router#config terminal
5. Router(config)#int fa0/0
6. Router(config-if)#ip add 192.168.1.1 255.255.255.0
7. Router(config-if)#no shutdown
8. Router(config-if)#exit

**Configure the DHCP Server on the Router**

1. Define a DHCP pool and network:

Router(config)#

Router(config)#ip dhcp pool MY\_LAN

Router(dhcp-config)#network 192.168.1.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.1.1

Router(dhcp-config)#dns-server 192.168.1.10

1. Exclude reserved IP addresses (e.g., for servers):

Router(config)#ip dhcp excluded-address 192.168.1.1 192.168.1.10

**3. Enable DHCP on the PCs**

1. Click on **PC1** → **Desktop** → **IP Configuration**.
2. Select **DHCP**.
3. Repeat for all PCs.

**4. Test the Configuration**

* Open **Command Prompt** on **PC1** and **ping** PC2:
* If successful, DHCP is working!

**Configuring DHCP on a Generic Server**

**1. Build the Network Topology**

* Use a **Generic Server instead of the Router**.

**2. Assign a Static IP to the Server**

* **IP Address:** 192.168.1.2/24

**3. Configure DHCP Service on the Server**

1. Click on **Server** → **Services** → **DHCP**.
2. Set DHCP parameters:
   * **Pool Name:** MY\_LAN
   * **Default Gateway:** 192.168.1.1
   * **DNS Server:** 192.168.1.2
   * **Start IP Address:** 192.168.1.10
   * **Subnet Mask:** 255.255.255.0
   * **Max Users:** 256
3. Click **Add** then **Save**.
4. **Turn ON** the DHCP service.

**4. Enable DHCP on Each PC**

1. Click on **PC1** → **Desktop** → **IP Configuration**.
2. Select **DHCP**.
3. Repeat for all PCs.

**5. Test the Configuration**

1. Open **Command Prompt** on a PC.
2. Type:
3. Ensure the PC receives an IP from the DHCP server.
4. Use **ping** to verify connectivity between PCs.

✅ **Success! Your DHCP Server is now configured and working.** 🚀

A screenshot of a computer

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