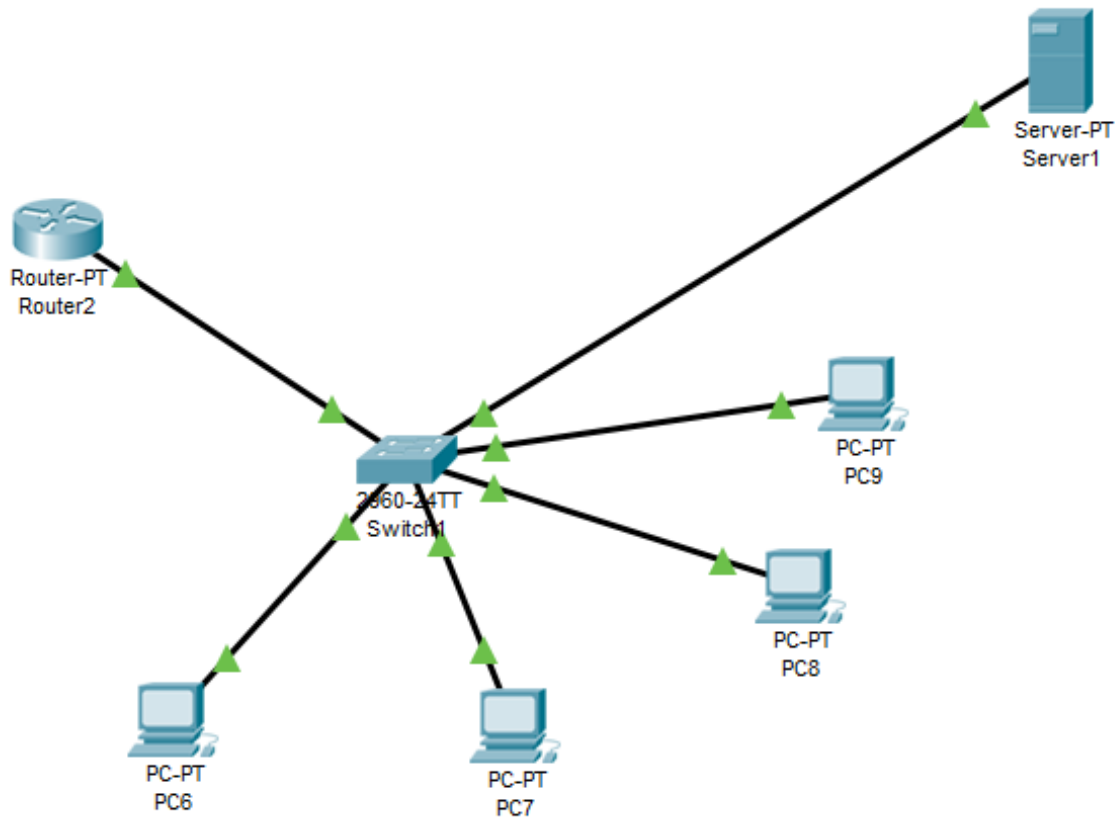


Configuring DHCP within a LAN in a Packet tracer



Step 1: Creating the topology as shown above.

Step 2: Assigning the gateway, IP address and subnet mask for the server.

Step 3: Under DHCP services, default gate way is assigned, the server IP address is assigned to DNS and TFTP server, starting IP address and subnet mask will be provided. This configuration is saved.

Step 4: Now, go to PC0->Desktop->IP Configuration and click on DHCP. After waiting some time, the IP address for PC0 will be assigned automatically.

DHCP DORA process stands for the following message flows between the client and the server.

- **Discover** – Client discovers the DHCP Server for IP request.
- **Offer** – DHCP servers offers IP to a client and wait for the request from the client.
- **Request** - Client reply for requesting offered IP address from DHCP server, sometimes there will be more DHCP servers. So, client receives offer from multiple servers. Client will reply for only one offer. So, other offers will be canceled and replaced in a pool.
- **Acknowledge** - Final step from server sending all information to client like DNS, Default Gateway, TFTP, domain name and so on...