

Assignment-4

Step 1 : Install Cisco Packet Tracer software in Ubuntu.

Step 2 : Enroll and Learn basic From given link .

https://skillsforall.com/course/getting-started-cisco-packet-tracer?utm_source=netacad.com&utm_medium=referral&utm_campaign=packet-tracer&courseLang=en-US&userlogin=0

1. Set up a LAN using Cisco Packet Tracer:
 - Place a hub (any model) on the workspace.
 - Connect at least three PCs to the hub using straight-through Ethernet cables.
 - Assign appropriate IP addresses to each PC in the LAN.
2. Configure a LAN using a switch:
 - Replace the hub with a switch .
 - Connect the PCs to the switch using straight-through Ethernet cables.
 - Verify connectivity between the PCs within the LAN.
3. Create a second LAN and connect it to the first LAN using a router:
 - Add a router to the workspace.
 - Connect one of the router's Ethernet interfaces to the switch.
 - Connect another switch to one of the remaining router interfaces.
 - Connect At Least 4 PCs to the second switch.
 - Configure IP addresses for the PCs in the second LAN
 - Configure routing on the router to enable communication between the two LANs.
 - Test connectivity between PCs in different LANs.

4: Documentation and Summary

- Take screenshots or export the topology to provide visual documentation of your network configuration.
- Write a brief description of Hub, switch and Router.