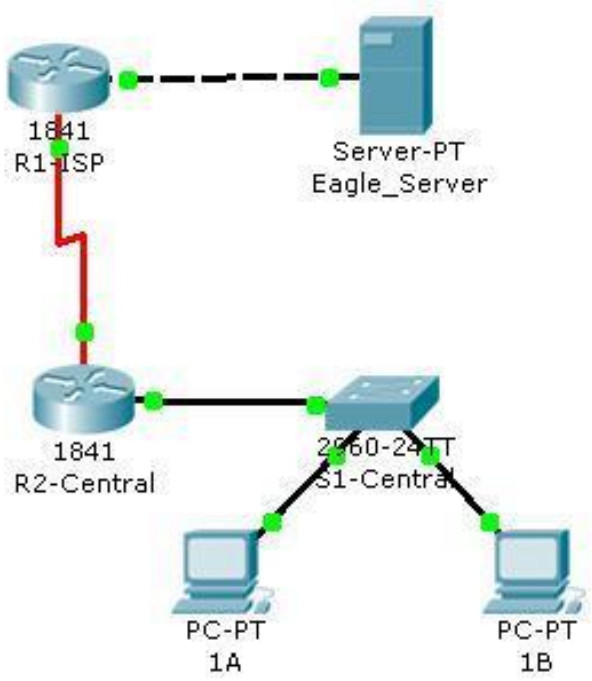
RRJETAT E KOMPJUTERAVE 1

LAB 4

Tema: Rrugezimi Statik



Device	Interface	IP Address	Subnet Mask	Default Gateway	DNS Server
R1-ISP	**Fa0/0**	**192.168.23.110**	**255.255.255.240**	**N/A**	**N/A**
R1-ISP	**S0/0/0**	**192.168.23.122**	**255.255.255.252**	**N/A**	**N/A**
R2-Central	**Fa0/0**	**192.168.23.62**	**255.255.255.192**	**N/A**	**N/A**
R2-Central	**S0/0/0**	**192.168.23.121**	**255.255.255.252**	**N/A**	**N/A**
PC1A	**NIC**	**192.168.23.1**	**255.255.255.192**	**192.168.23.62**	**192.168.23.109**
PC1B	**NIC**	**192.168.23.2**	**255.255.255.192**	**192.168.23.62**	**192.168.23.109**
Eagle-Server	**NIC**	**192.168.23.109**	**255.255.255.240**	**192.168.23.110**	**N/A**

Task 1: IP Subnet Planning

You have been given an IP address block of 192.168.23.0 /24. You must provide for existing networks as well as future growth.

Subnet assignments are:

- 1st subnet, existing student LAN (off of router R2-Central), up to 60 hosts;
- 2nd subnet, future student LAN, up to 28 hosts;
- 3rd subnet, existing ISP LAN, up to 12 hosts;
- 4th subnet, future ISP LAN, up to 8 hosts;
- 5th subnet, existing WAN, point-to-point link;
- 6th subnet, future WAN, point-to-point link;
- 7th subnet, future WAN, point-to-point link.

Interface IP addresses:

- For the server, configure the second highest usable IP address on the existing ISP LAN subnet.
- For R1-ISP's Fa0/0 interface, configure the highest usable IP address on the existing ISP LAN subnet.
- For R1-ISP's S0/0/0 interface, configure the highest usable address on the existing WAN subnet.
- For R2-Central's S0/0/0 interface, use the lowest usable address on the existing WAN subnet.
- For R2-Central's Fa0/0 interface, use the highest usable address on the existing student LAN subnet.
- For hosts 1A and 1B, use the first 2 IP addresses (two lowest usable addresses) on the existing student LAN subnet.

Additional configurations:

- For PCs 1A and 1B, in addition to IP configuration, configure them to use DNS services.
- For the server, enable DNS services, use the domain name eagleserver.example.com, and enable HTTP services.
- For R1-ISP router serial interface, you will need to set the clock rate (a timing mechanism required on the DCE end of serial links) to 64000.
- No clock rate is needed on the DTE side, in this case R2-Central's serial interface.

Task 2: Finish Building the Network in Packet Tracer. Add cables where missing.