

TODO4: VLANs & ACL

Question: Use Cisco Packet Tracer to build the topology shown in figure below:

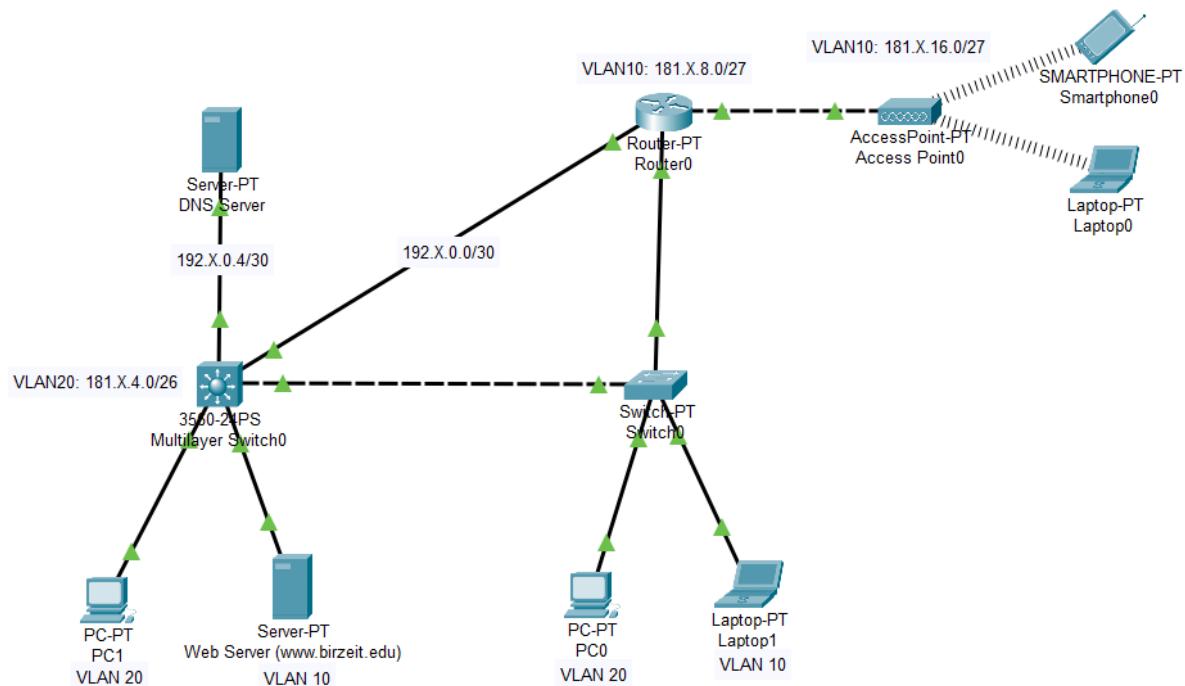


Figure 1: Question Topology.

- **Part 1 (Topology):**
 - On the router: use Router-on-a-Stick (RoS) for inter-VLAN routing.
 - On the multilayer switch: use Switch Virtual Interfaces (SVIs).
 - All connections between the router and switches must be trunk links to carry VLAN traffic.
 - All PCs, laptops, and the server must be able to ping each other.
 - Configure **RIP** as the dynamic routing protocol and advertise all VLAN networks.
 - Add DNS record for website into DNS server.
- **Part 2 (ACL):**
 - Using standard access list, allow VLAN 10 to access network 181.X.16.0/27, other traffic is denied.
 - Allow only the PC1 from VLAN20 to use DNS and deny all other DNS traffic to the DNS Server.

- **Important:** Your University ID number must be included in the solution, or a mark of zero will be given.
- **Deadline:** Wednesday, 10/12/2025, by 11:59 PM.
- **What to Submit:** A Packet Tracer file named in the format: **YourName_YourID_TODO4.pkt**
- **Where to Submit:** Submit to TODO4 through the Ritaj.

Good Luck