

Implementation of Network Projects using Packet Tracer

XYZ Corporation is a multinational company with five branches located in different regions. The branches vary in size, with different requirements for the number of hosts. The company needs a robust network infrastructure to facilitate seamless communication between branches. You are tasked with designing a network using Cisco Packet Tracer that connects these branches while considering the varying host requirements.:

- Each branch should contain at least two PCs in the design for testing purposes.
- Appropriate number of switches and routers should be used in the network.
- Using the given network 192.168.40.0/24, all interfaces should be configured with correct IP addresses, subnet mask and gateways.
- All devices in the network should be connected using appropriate cables.
- Test communication between devices in all branches.

Branch Details:

- Branch A: 30 hosts
- Branch B: 20 hosts
- Branch C: 15 hosts
- Branch D: 25 hosts
- Branch E: 10 hosts

Requirements

1. Creating a Simple Network using a Router and Switch.
2. Connecting Networking devices with Correct cabling.
3. Subnetting and IP Addressing.
4. Assigning IP Addresses to Router's interfaces.
5. Static IP Address allocation to Host Devices.
6. Test and Verifying Network Communication.