

Group Project: Enterprise Network Design

Use the following guidelines to design your network project

- Background of the Organization
- The need of network design for the organization
- The Proposed Network Design Architecture using Cisco Packet Tracer
 - ✓ Approximate the total number of hosts in the organization's network
 - ✓ The proposed network design should contain five VLANs (subnets)
 - ✓ Use 4 or 5 sample workstations in each VLAN (Desktop and Laptop)
 - ✓ Approximate the number of hosts in each VLAN (Use VLSM to define the network address of each subnet)
 - ✓ Use the Router as DHCP server
 - The proposed network designed is a *DHCP* enabled.
 - Use classful IP addresses (A, B or C)
 - ✓ Consider a security issue in your network design
 - ✓ Create Wireless LAN on one of the VLANs to provide Wireless connection
 - ✓ Consider Data center/Server Farm in your network design (Web server, mail server FTP server, HTTP server...)
- Basic switch and router Configuration files
 - ✓ Command description
- Demonstration:
 - Nodes located at different VLANs should be able to communicate to each other (Check network connectivity among devices).
 - Use Network Commands to troubleshoot the network
 - Servers should be accessible from any of the VLANs
- Document submission (Hardcopy and Softcopy)
- Group Presentations

Submission Date: May 23, 2019