

NETWORK LABORATORY
Lab 4: IP Addressing and Subnetting

AIM: Assigning IP addresses to a network using VLSM and FLSM

Reference Book: Chapter no 9 , CCNA Complete Guide 2nd Edition by Yap Chin Hoong

1. Familiar your-self with IP basics; types of Class address; range of each class;
2. Design a topology for 3 network segments connected in a star topology through router .
 - a. 4 host (use switch)
 - b. 2 host and (use Switch)
 - c. 10 computer host + one DHCP Server (use Hub)Consider Class C Address 192.168.10.0/24

Following Particle will demonstrate the difference between FLSM and VLSM Techniques.

3. You need to create an IP plan for given network. You are given an address space of 192.168.1.0/24, and need to subnet it. This involves finding the mask, subnets, and ranges. You need four subnets, and that the four subnets need the following numbers of hosts:

- 105 hosts
- 50 hosts
- 20 hosts
- 10 hosts

Consider yourself as Network Administrator you need to create an IP plan for this network by following methods

- Unstructured FLSM
- FLSM
- VLSM

4. We're given the address space 172.16.55.0/24 (a Class "C" sized piece of a Class "B" network). There are two routers, connected by a pair of point-to-point WAN links (for fault-tolerance). In addition to the P2P links, R1 has four directly-attached LAN subnets, as follows:

- 50 hosts
- 20 hosts
- 10 hosts
- 5 hosts

R2 also has four directly-attached LAN subnets, as follows:

- 40 hosts
- 25 hosts
- 12 hosts
- 4 hosts

5. A HQ site is connected to 20 remote sales offices in a hub and spoke topology (using point-to-point Frame Relay sub interfaces). We're given the address space 10.100.200.0/22. We need to subnet to support a HQ LAN subnet of 100 hosts, 20 sales office LANs of 25 hosts each, and the 20 WAN links connecting HQ to the remote sites.

Network Laboratory Manual

Ying-Ying Zheng



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