NAT Tutorial 5 Extra Exercise

Say you're responsible for administering IP network of HANU. There are three new departments:

- + FIT has 20 PCs
- + FMT has 10 PCs
- + FCS has 4 PCs

You're given an IP block: 192.168.15.64/26. Please subnet the given IP block and assign the subnets to the three new departments.

SOLUTION

FIT:

- + IP block: 192.168.15.64/27
- + Subnet mask: 255.255.255.224
- + Network address: 192.168.15.64
- + Broadcast address: 192.168.15.12X 95
- + IP range: 192.168.15.64 192.168.15 25
- + IP range (for hosts): 192.168.15.65 192.168.15.126 94
- + Maximum number of hosts: 30

FMT:

- + IP block: 192.168.15.96/28
- + Subnet mask: 255.255.255.240
- + Network address: 192.168.15.96
- + Broadcast address: 192.168.15.111
- + IP range: 192.168.15.96 192.168.15.111
- + IP range (for hosts): 193.168.15.97 192.168.15.110
- + Maximum number of hosts: 14

FCS:

- + IP block: 192.168.15.112/29
- + Subnet mask: 255.255.255.248
- + Network address: 192.168.15.112
- + Broadcast address: 192.168.15.119
- + IP range: 192.168.15.112 192.168.15.119
- + IP range for host: 192.168.15.113 192.168.16.118
- + Maximum number of hosts: 6

Other (reserved for future use):

- + IP block: 192.168.15.120/29
- + Subnet mask: 255.255.255.248
- + Network address: 192.168.15.120
- + Broadcast address: 192.168.15.127
- + IP range: 192.168.15.120 192.168.15.127
- + IP range (for host): 192.168.15.121 192.168.15.126
- + Maximum number of hosts: 6