Activity 1. VLSM Exercices

Topology 1.

Network: 192.168.2.0/23

130 3 256 8bits

192.168._____1

130:192.168.2.0/24

12 -> 16 4 bits 192. 168. 3. _ 1 - | - | - - - -

12: 192.168.3.64/28

12 - 16 4 bits

192.168.3. _ 1 _ 1 _ - - - -

12 3: 192.168.3.80/28

Final results

Network: 192.168.2.0/23
130 Losts: 192.168.2.0/24
55 Losts: 192.168.3.0/26
12 Losts: 192.168.3.64/28
12 Losts: 192.168.3.80/28

MANAGEMENT MANAGEMENT
2 Losts: 192.168.3.84/30
2 Losts: 192.168.3.88/30
2 Losts: 192.168.3.92/30
2 Losts: 192.168.3.92/30
2 Losts: 192.168.3.92/30

2 = 4 2bits 192.168.3. -1 -1 -1 - -2:192.168.3.84/30

2 > 4 2 bits 192, 168, 3, -1 - 1 1 0 2: 192, 168, 3, 88/30

2 = 4 26its 192, 168, 3, -1 - 1 1 1 - -

Topology 2.

Network # 172, 16.8,0/22

200 - 256 8 bits

172,16.____1_-

200: 172.16.8.0/24

100 - 128 7 bits

172.16.9.11-----

100: 172.16.9.0/25

60 - 64 6 bits

172,16,9,10 ----

60: 172.16.9, 128/26

40 - 64 6 bits

172.16.9.11-

40:172.16.9.192/26

35 > 64 6bits

172.16. ---- 1 10 00

35 - 172. 16.10.0/26

2 > 4 2 bits

0 1 1

2:172.16.10,64/30

2: 172.16.10,68/30

2:172.16.10.72/30

2: 172.16.10.76/30

2: 172.16.10.80/30

2: 172.16.10.8084/30

1 - 4 2 bits

2: 172.16, 10.88/30

Final Results

200 172.16.8.0/24

100: 172.16.9.0125

60: 172.16.9.128/26 40:172.16.9.192/26

35:172.16.10.0/26

2: 472.16.10-64/30

2: 172.16.10.68/30

2: 172.16.10.72/30

2: 172.16, 10.76/30

2:172.16.10.80/30

2:172.16.10. 84/30

1:172.16.10.88/30

Topology 3.

Network: 134,48.14.8.0 /22

500 - WAR 512 9 bits 8 bits 150 - 256 a bits 120 - 128 60 - 64 6 bits

134.14.____1_1___

500: 134,14,8.0/23

134.14.___1_1 150:134,14.10.0/24

134,14.11.

120: 134.14.11.0/25

134.14.11.1

60: 134.14.11. 128/26

2:134.14.11.192/30

2:134.14.11.196/30

2:134.14.11.200/30

2: 134.14.11.204/30

2: 134.14.11.208/30

2: 134.14.11.212/30

2: 134.14.11.216/30

Final Results

500 hests: 134.14.8.0/23

150 hosts: 134.14,10.0/24

120 hosts: 134.14, 11.0/25

60 hosts: 134.14.11.128/26

Submet 1: 134.14.11.192/30

Subuet 2: 134.14.11.196/30

Subuet 3:134.14.11.200/30

Subuet 4: 134.14.11.204/30

Subnet 5: 134.14.11.208/30 Submet 6: 134.14.11.212/30

Subnet 7: 134.14.11.216/30

 $150 \rightarrow 256$ 8 bits $90 \rightarrow 128$ 78 bits $60 \rightarrow 64$ 6 bits $30 \rightarrow 32$ 5 bits $24 \rightarrow 32$ 5 bits $24 \rightarrow 32$ 5 bits $24 \rightarrow 32$ 5 bits $20 \rightarrow 32$ 5 bits

90: 192, 168. 29.

192,168.29.1

60: 192.168.29.128/26

30: 192.168.29, 192/27

192.168.29.111_____

24: 192, 168, 29, 224 /27

24: 192.168.30.0/27

20: 192, 168, 30, 32/27

2: 192, 168, 30.64/30

2: 192.168.30.68/30

2: 192.168.30.72/30

2: 192.168.30,76/30

Final Results

Network: 192.168.28.0/22 450 hosts: 192.168.28.0/24 90 hosts: 192.168.29.0/25 60 hosts: 192.168.29.128/26 30 hosts: 192.168.29.192/27 24 hosts: 192.168.29.224/27 24 hosts: 192.168.30.0/27 20 hosts: 192.168.30.32/27

Subnet 1: 192.168.30.64/30 Subnet 2: 192.168.30.68/30 Subnet 3: 192.168.30.72/30 Subnet 4: 192.168.30.76/30