VLSM Tree (Group: 22)

192.168.0.0/20 *(Major network address)*

192.168.0.0/22

(Joshore: 560 hosts)

192.168.8.0/25

(Shatkhira: 80 hosts)

192.168.8.128/26

(Kushtia: 40 hosts)

192.168.4.0/22

192.168.4.0/23

(Narail: 350 hosts)

192.168.6.0/23

192.168.6.0/24

(Faridpur: 210 hosts)

192.168.7.0/24

(Magura: 128 hosts)

FOR 6 WANs

192.168.8.192/30

192.168.8.196/30

192.168.8.200/30

192.168.8.204/30

192.168.8.208/30

192.168.8.212/30

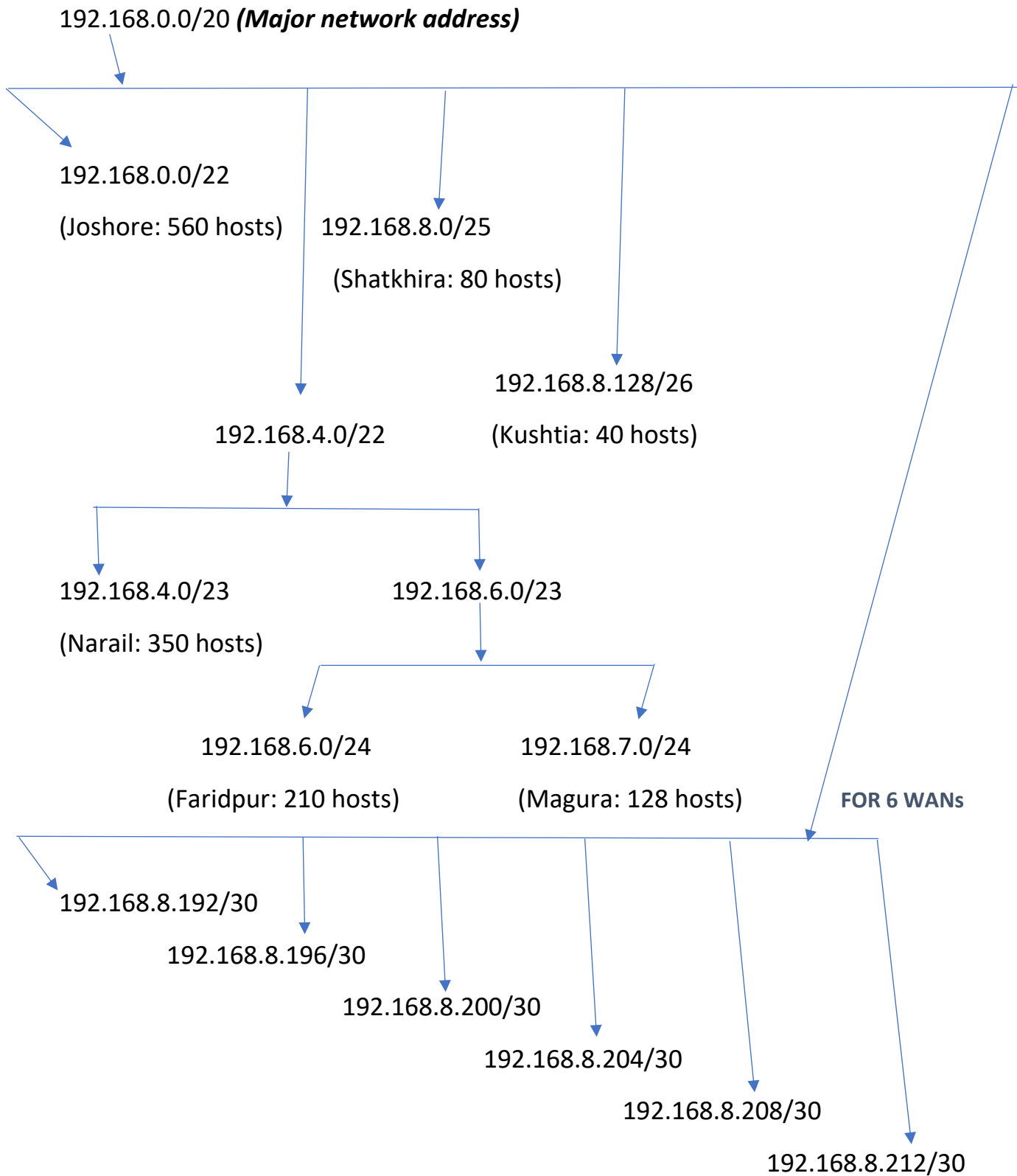**Major Network: 192.168.0.0/20**

Available IP addresses in major network: 4094

Number of IP addresses needed: 1380

Available IP addresses in allocated subnets: 2240; which is the most efficient for the given network.

Subnet Name	Needed Size	Allocated Size	Address	Mask	Dec Mask	Assignable Range
Jashore	560	1022	192.168.0.0	/22	255.255.252.0	192.168.0.1 - 192.168.3.254
Narail	350	510	192.168.4.0	/23	255.255.254.0	192.168.4.1 - 192.168.5.254
Faridpur	210	254	192.168.6.0	/24	255.255.255.0	192.168.6.1 - 192.168.6.254
Magura	128	254	192.168.7.0	/24	255.255.255.0	192.168.7.1 - 192.168.7.254
Shatkhira	80	126	192.168.8.0	/25	255.255.255.128	192.168.8.1 - 192.168.8.126
Kushtia	40	62	192.168.8.128	/26	255.255.255.192	192.168.8.129 - 192.168.8.190
WAN1	2	2	192.168.8.192	/30	255.255.255.252	192.168.8.193 - 192.168.8.194
WAN2	2	2	192.168.8.196	/30	255.255.255.252	192.168.8.197 - 192.168.8.198
WAN3	2	2	192.168.8.200	/30	255.255.255.252	192.168.8.201 - 192.168.8.202
WAN4	2	2	192.168.8.204	/30	255.255.255.252	192.168.8.205 - 192.168.8.206
WAN5	2	2	192.168.8.208	/30	255.255.255.252	192.168.8.209 - 192.168.8.210
WAN6	2	2	192.168.8.212	/30	255.255.255.252	192.168.8.213 - 192.168.8.214