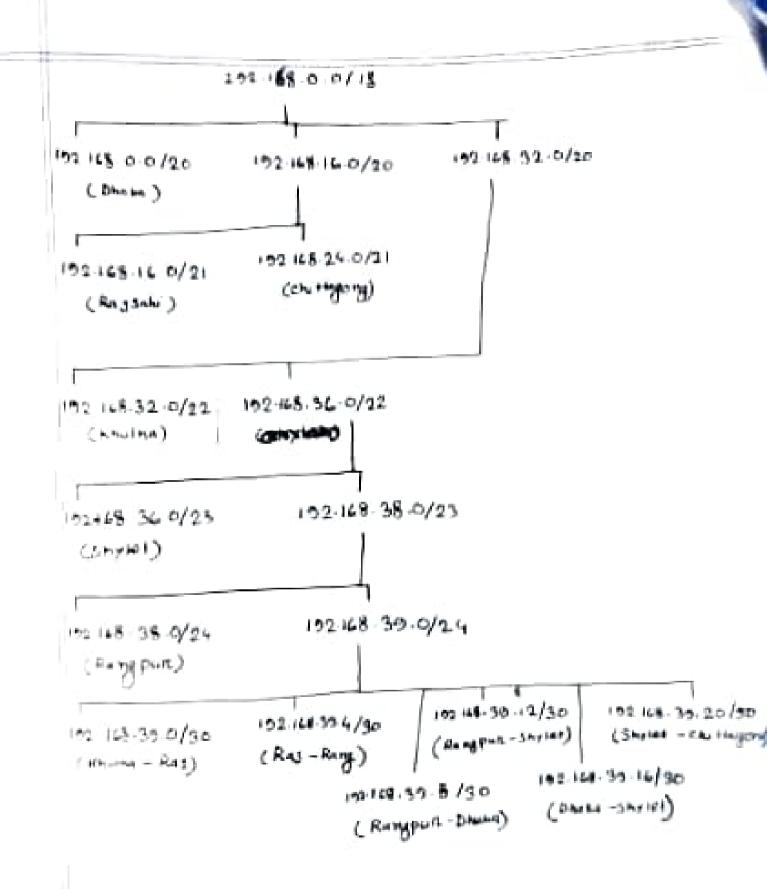We apply VLSM on the major network address = 192.168.0.0/18

VLSM Table

#	Needed Size	Allocated Size	Network Address	Prefix Mask	Subnet Mask	Host IP address Range	Broadcast Address
Dhaka	2482	4096	192.168.0.0	/20	255.255.240.0	192.168.0.1 - 192.168.15.254	192.168.15.255
Rajshahi	1832	2048	192.168.16.0	/21	255.255.248.0	192.168.16.1 - 192.168.23.254	192.168.23.255
Chittagong	1094	2048	192.168.24.0	/21	255.255.248.0	192.168.24.1 - 192.168.31.254	192.168.31.255
Khulna	656	1024	192.168.32.0	/22	255.255.252.0	192.168.32.1 - 192.168.35.254	192.168.35.255
Sylhet	482	512	192.168.36.0	/23	255.255.254.0	192.168.36.1 - 192.168.37.254	192.168.37.255

Rangpur	198	256	192.168.38.0	/24	255.255.255.0	192.168.38.1 - 192.168.38.254	192.168.38.255
Khulna-Rajshahi	4	4	192.168.39.0	/30	255.255.255.252	192.168.39.1 - 192.168.39.2	192.168.39.3
Rajshahi-Rangpur	4	4	192.168.39.4	/30	255.255.255.252	192.168.39.5 - 192.168.39.6	192.168.39.7
Rangpur-Dhaka	4	4	192.168.39.8	/30	255.255.255.252	192.168.39.9 - 192.168.39.10	192.168.39.11
Rangpur-Sylhet	4	4	192.168.39.12	/30	255.255.255.252	192.168.39.13 - 192.168.39.14	192.168.39.15
Dhaka-Sylhet	4	4	192.168.39.16	/30	255.255.255.252	192.168.39.17 - 192.168.39.18	192.168.39.19
Sylhet-Chittagong	4	4	192.168.39.20	/30	255.255.255.252	192.168.39.21 - 192.168.39.22	192.168.39.23

192.168.0.0/18

192.168.0.0/20
(Dhaka)

192.168.16.0/20

192.168.32.0/20

192.168.16.0/21
(Rajshahi)

192.168.24.0/21
(Chittagong)

192.168.32.0/22
(Khulna)

192.168.36.0/22
(Barishal)

192.168.36.0/23
(Sylhet)

192.168.38.0/23

192.168.38.0/24
(Rangpur)

192.168.39.0/24

192.168.39.0/30
(Khulna - Raj)

192.168.39.4/30
(Raj - Rang)

192.168.39.12/30
(Rangpur - Sylhet)

192.168.39.20/30
(Sylhet - Rajshahi)

192.168.39.8/30
(Rangpur - Dhaka)

192.168.39.16/30
(Dhaka - Sylhet)

IP Address Table

Device	Interface	IP Address / Prefix		Default Gateway
Dhaka	Fa0/0	192.168.0.1	255.255.240.0	N/A
	Se2/0	192.168.39.10	255.255.255.252	N/A
	Se3/0	192.168.39.17	255.255.255.252	N/A
Chittagong	Fa0/0	192.168.24.1	255.255.248.0	N/A
	Se2/0	192.168.39.22	255.255.255.252	N/A
Rajshahi	Fa0/0	192.168.16.1	255.255.248.0	N/A
	Se2/0	192.168.39.2	255.255.255.252	N/A
	Se3/0	192.168.39.5	255.255.255.252	N/A
Khulna	Fa0/0	192.168.32.1	255.255.252.0	N/A
	Se2/0	192.168.39.1	255.255.255.252	N/A
Sylhet	Fa0/0	192.168.36.1	255.255.254.0	N/A
	Se2/0	192.168.39.21	255.255.255.252	N/A
	Se3/0	192.168.39.18	255.255.255.252	N/A

	Se6/0	192.168.39.14	255.255.255.252	N/A
Rangpur	Fa0/0	192.168.38.1	255.255.255.0	N/A
	Se2/0	192.168.39.6	255.255.255.252	N/A
	Se3/0	192.168.39.9	255.255.255.252	N/A
	Se6/0	192.168.39.13	255.255.255.252	N/A
PC0	NIC	192.168.32.2	255.255.252.0	192.168.32.1
PC1	NIC	192.168.32.3	255.255.252.0	192.168.32.1
PC2	NIC	192.168.36.2	255.255.254.0	192.168.36.1
PC3	NIC	192.168.36.3	255.255.254.0	192.168.36.1
AmraSylheti.com	NIC	192.168.36.4	255.255.254.0	192.168.36.1
PC4	NIC	192.168.0.3	255.255.240.0	192.168.0.1
PC5	NIC	192.168.0.5	255.255.240.0	192.168.0.1
Amar Iccha	NIC	192.168.0.2	255.255.240.0	192.168.0.1
PC6	NIC	192.168.16.2	255.255.248.0	192.168.16.1
PC7	NIC	192.168.16.3	255.255.248.0	192.168.16.1
PC8	NIC	192.168.38.2	255.255.255.0	192.168.38.1

PC9	NIC	192.168.38.3	255.255.255.0	192.168.38.1
PC10	NIC	192.168.24.2	255.255.248.0	192.168.24.1
PC11	NIC	192.168.24.3	255.255.248.0	192.168.24.1