Praktikum Modul 4
JARKOM

Kelompok A10

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Departemen Teknik Informatika

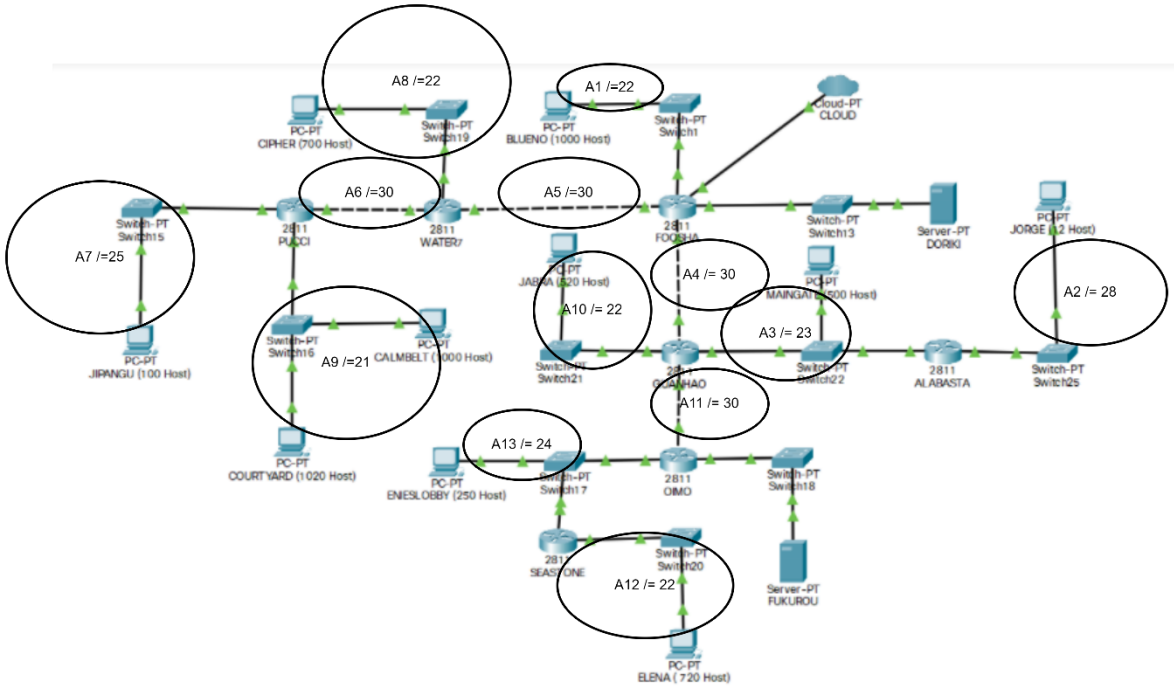
Fakultas Teknologi Elektro dan Informatika Cerdas

Institut Teknologi Sepuluh Nopember Surabaya

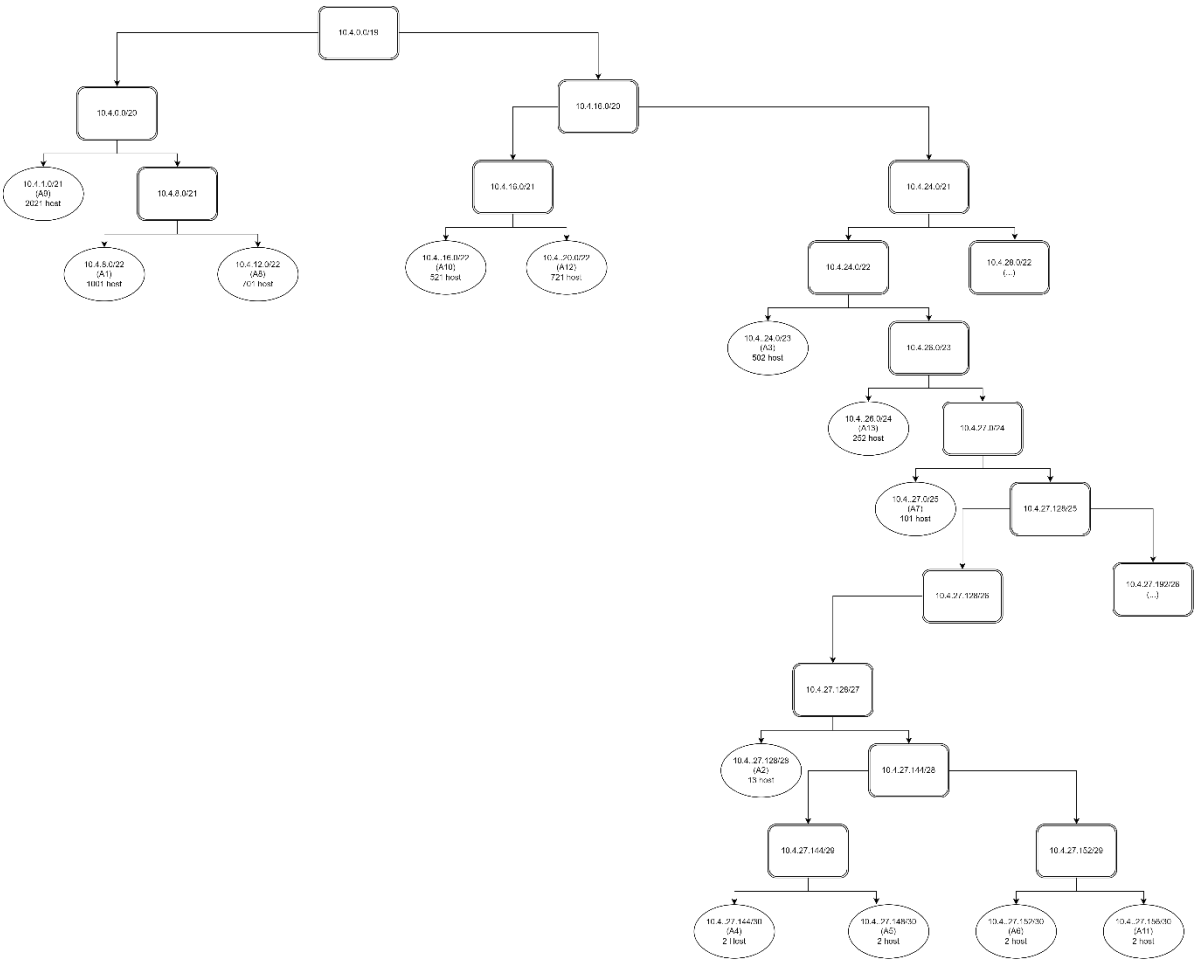
2021

Perhitungan IP dan Pohon IP Cisco Packet Tracer **VLSM**

- Pembagian IP



- Pohon IP



- Pembagian Subnet

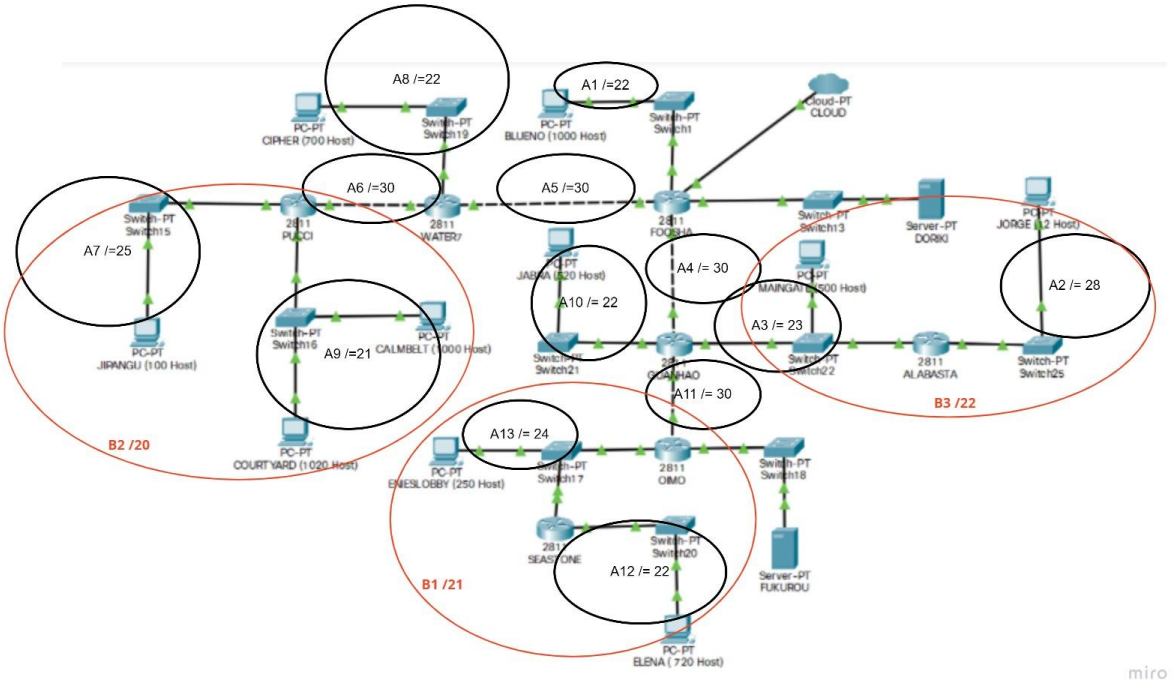
Subnet	Jumlah IP	Netmask
A1	1001	/22
A2	13	/28
A3	502	/23
A4	2	/30
A5	2	/30
A6	2	/30
A7	101	/25
A8	701	/22
A9	2021	/21
A10	521	/22
A11	2	/30
A12	721	/22
A13	252	/24
Total	5841	/19

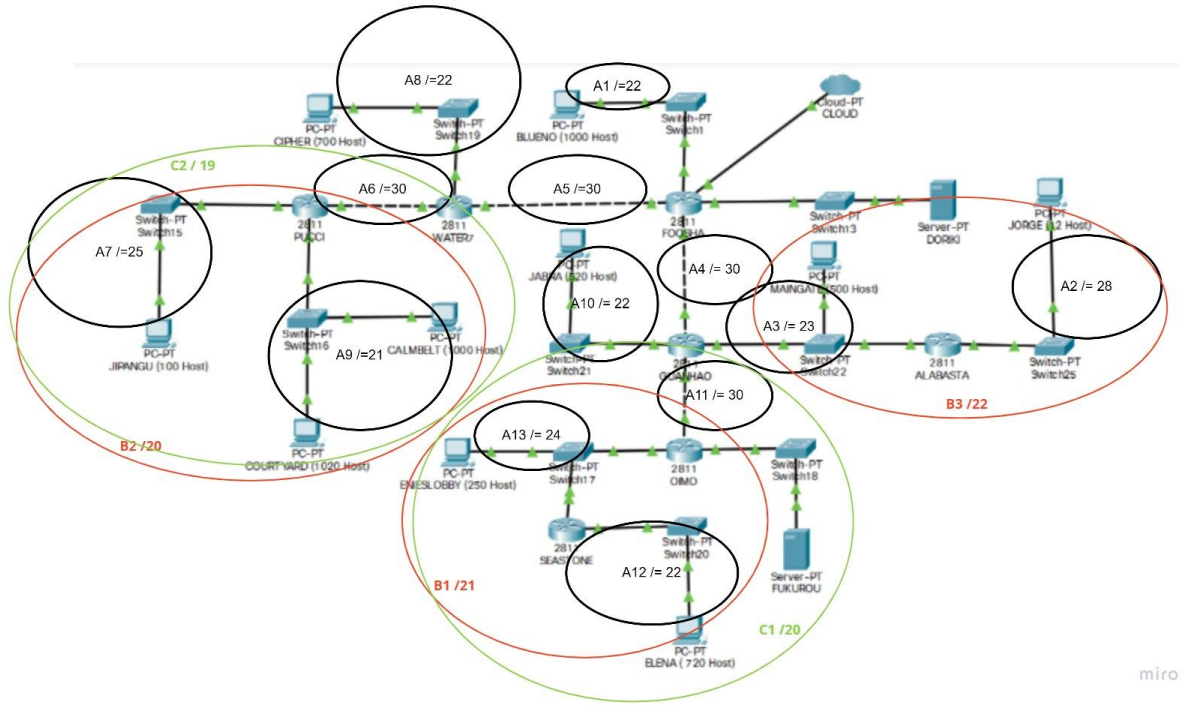
Subnet	IP	Subnet Mask	NetMask	Jumlah IP
A1(Blueno)	10.4.8.0	255.255.252.0	/22	1001
A2(Jorge)	10.4.27.128	255.255.255.240	/28	13
A3(Maingate)	10.4.24.0	255.255.254.0	/23	502

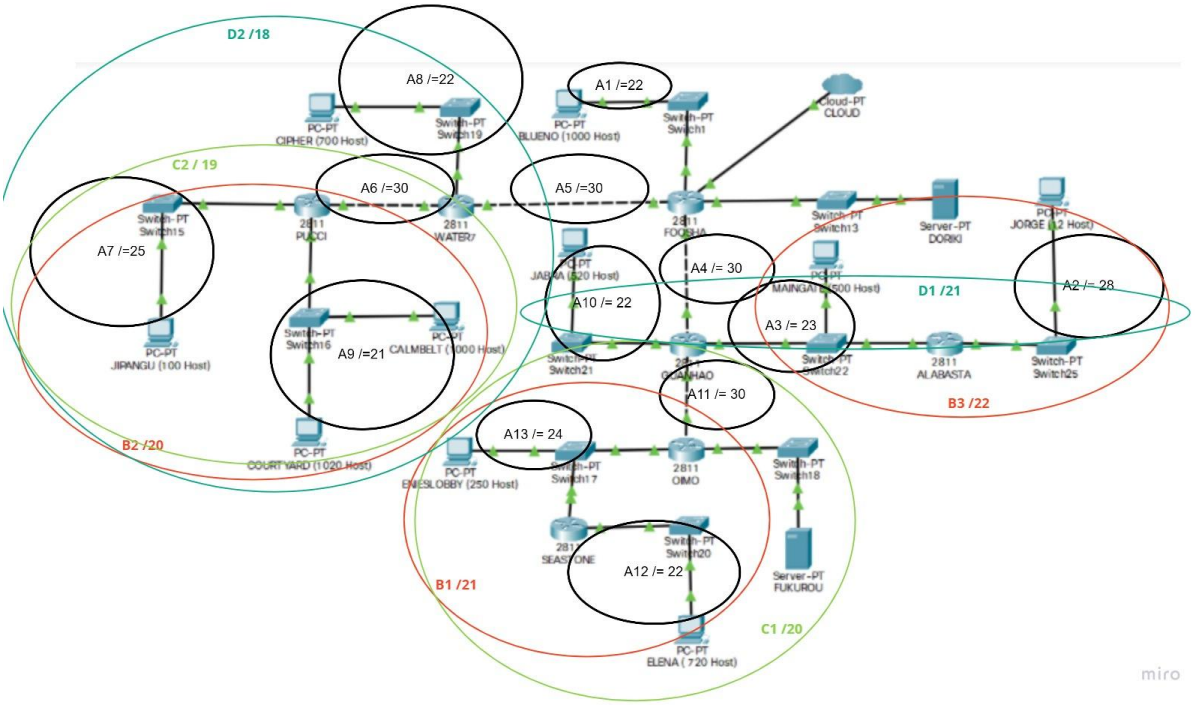
A4(Foosha + Guanhao)	10.4.27.144	255.255.255.252	/30	2
A5(Water7 + Foosha)	10.4.27.148	255.255.255.252	/30	2
A6(Water7 + Pucci)	10.4.27.152	255.255.255.252	/30	2
A7(Jipangu)	10.4.27.0	255.255.255.128	/25	101
A8(Cipher)	10.4.12.0	255.255.252.0	/22	701
A9(Calmbelt + Court Yard)	10.4.0.0	255.255.248.0	/21	2021
A10(Jabra)	10.4.16.0	255.255.252.0	/22	521
A11(Guahao + Oimo)	10.4.27.156	255.255.255.252	/30	2
A12(Elena)	10.4.20.0	255.255.252.0	/22	721
A13(EniesLobby)	10.4.26.0	255.255.255.0	/24	252
Total		255.255.224.0	/19	5841

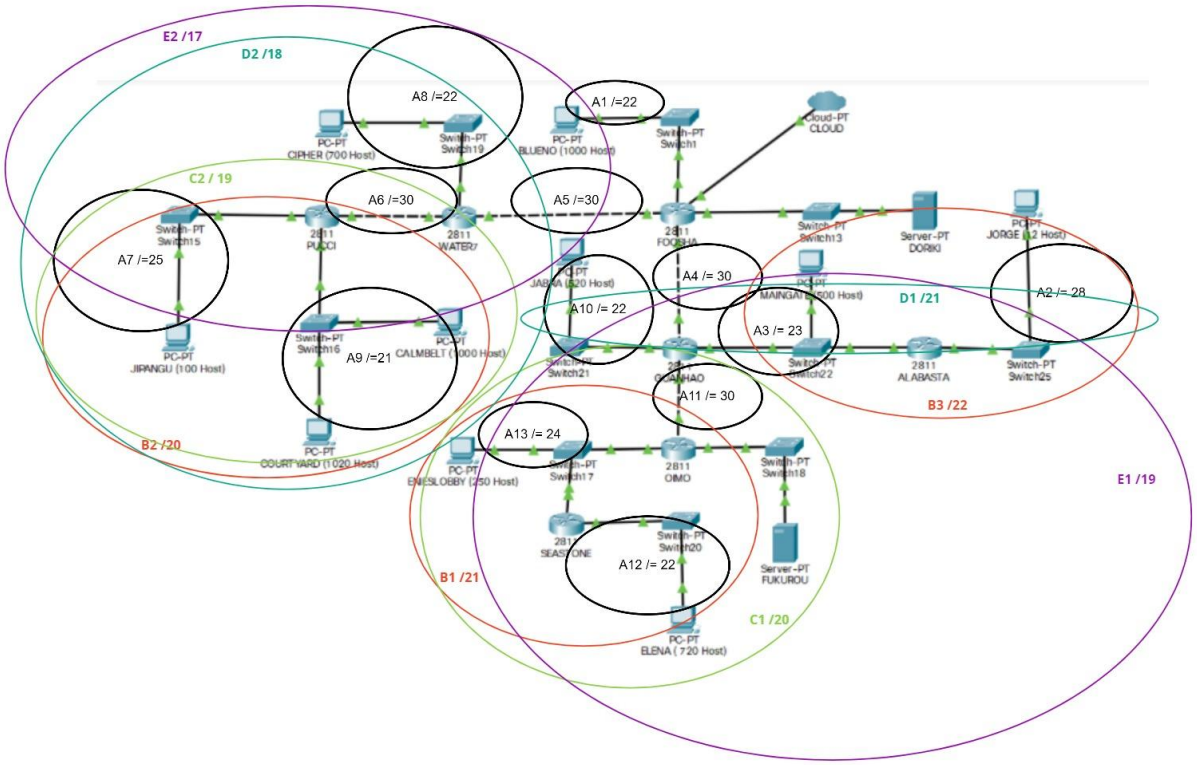
Perhitungan Pohon IP GNS3 CIDR

Penggabungan subnet

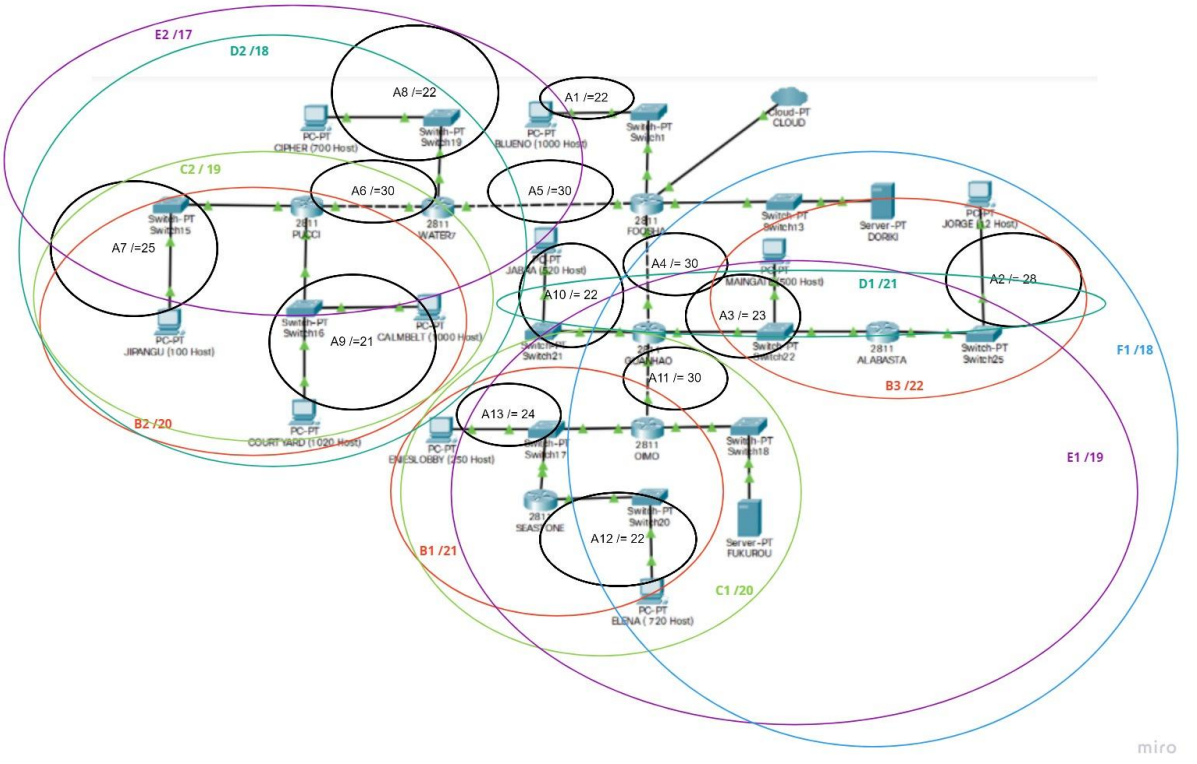



A8 /=22
A1 /=22
C2 / 19
A6 /=30
A5 /=30
A7 /=25
A4 /= 30
A10 /= 22
A2 /= 28
A3 /= 23
A9 /=21
A11 /= 30
B3 /22
B2 /20
A13 /= 24
B1 /21
A12 /= 22
C1 /20
miro


D2 /18
A8 /=22
A1 /=22
C2 / 19
A6 /=30
A5 /=30
A7 /=25
A4 /= 30
D1 /21
A10 /= 22
A2 /= 28
A3 /= 23
A9 /=21
A11 /= 30
B3 /22
B2 /20
A13 /= 24
B1 /21
A12 /= 22
C1 /20
miro


E2 /17
D2 /18
C2 / 19
B2 /20
B1 /21
C1 /20
B3 /22
D1 /21
E1 /19
A8 /=22
A1 /=22
A6 /=30
A5 /=30
A7 /=25
A4 /= 30
A10 /= 22
A3 /= 23
A2 /= 28
A9 /=21
A11 /= 30
A13 /= 24
A12 /= 22
PC-PT CIPHER (700 Host)
PC-PT BLUENO (1000 Host)
Cloud-PT CLOUD
Switch-PT Switch19
Switch-PT Switch1
Switch-PT Switch15
2811 PUCCI
2811 WATER7
2811 FOORIHA
Switch-PT Switch13
Server-PT DORIKI
PC-PT JORGE (2 Host)
PC-PT JABBA (520 Host)
PC-PT MAINGAI (500 Host)
PC-PT JIPANGU (100 Host)
Switch-PT Switch16
PC-PT CALMBELT (1000 Host)
Switch-PT Switch21
2811 OHAHAO
Switch-PT Switch22
2811 ALABASTA
Switch-PT Switch25
PC-PT COURTYARD (1020 Host)
PC-PT ENESLOBBY (250 Host)
Switch-PT Switch17
2811 OIMO
Switch-PT Switch18
2811 SEASTONE
Switch-PT Switch20
Server-PT FUKUROU
PC-PT ELENA (720 Host)

miro


E2 /17
D2 /18
C2 / 19
B2 /20
B1 /21
C1 /20
B3 /22
D1 /21
E1 /19
F1 /18
A8 /=22
A1 /=22
A6 /=30
A5 /=30
A7 /=25
A4 /= 30
A10 /= 22
A3 /= 23
A2 /= 28
A9 /=21
A11 /= 30
A13 /= 24
A12 /= 22
PC-PT CIPHER (700 Host)
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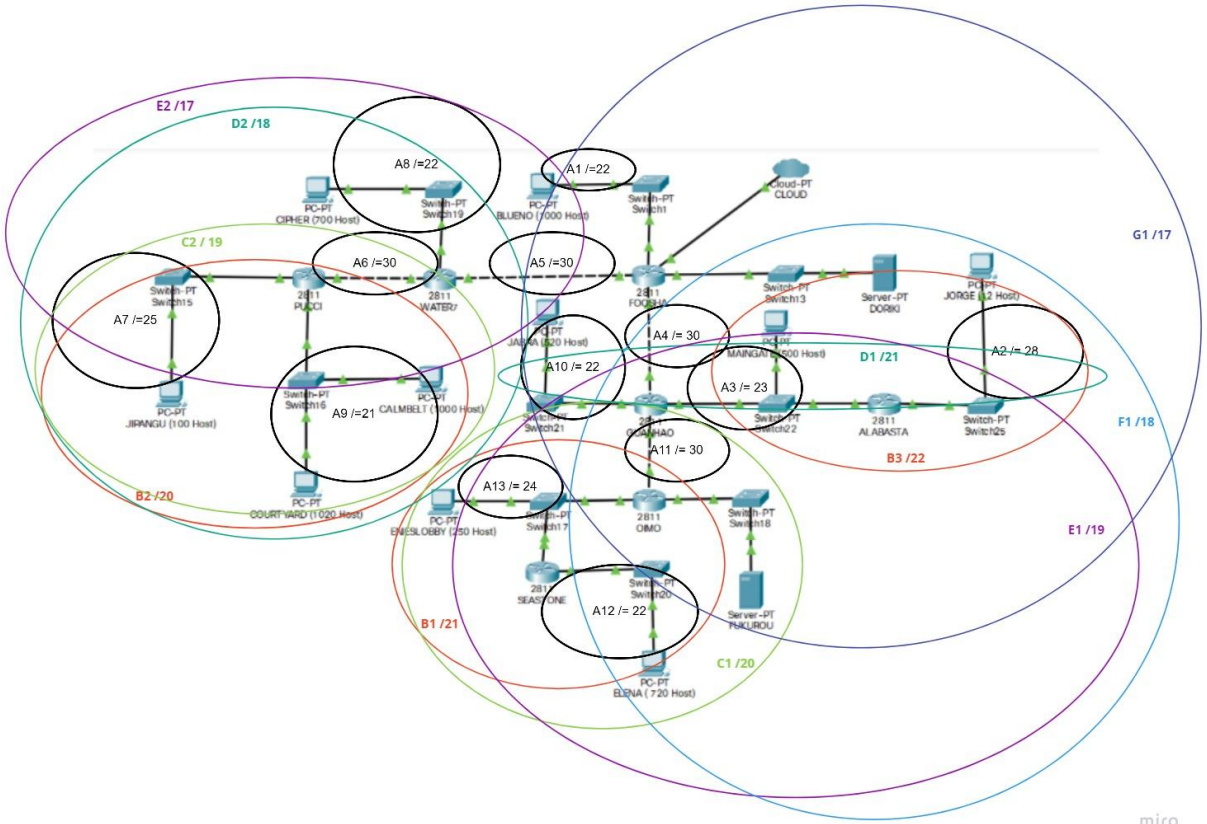
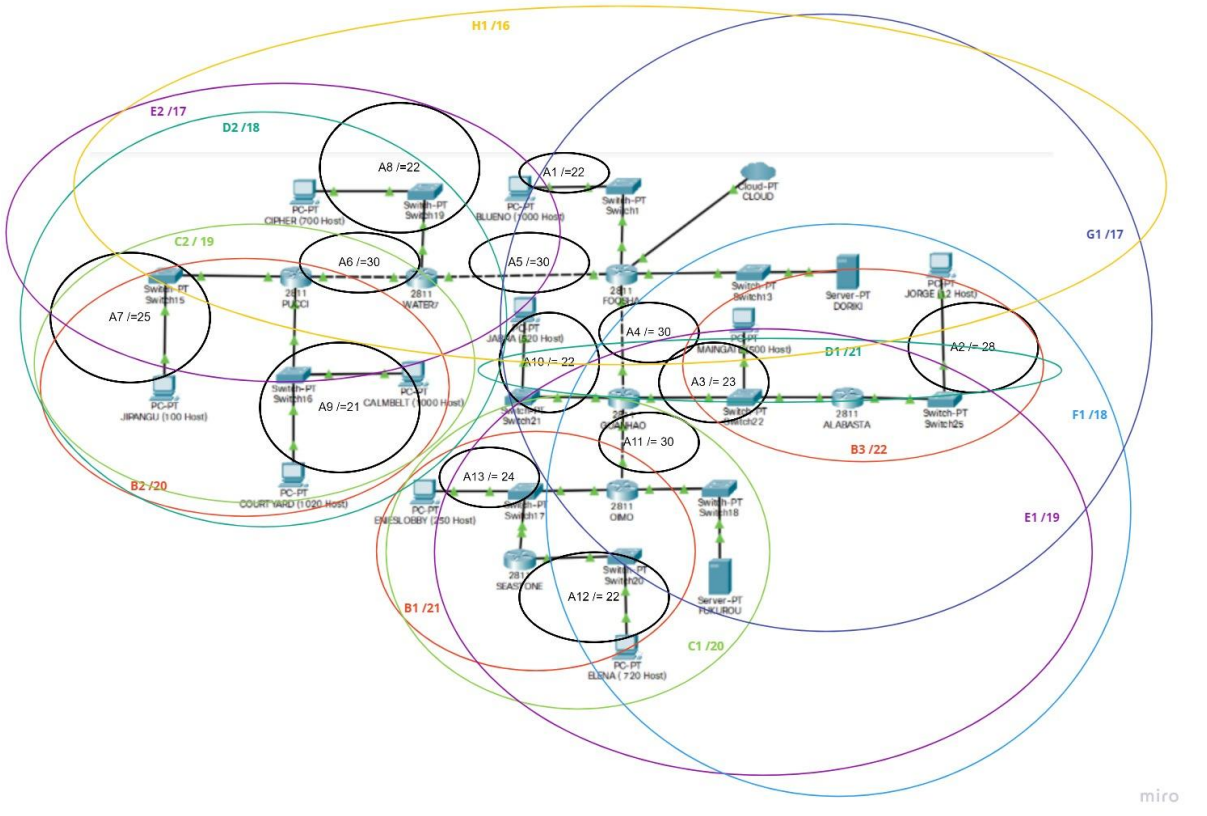
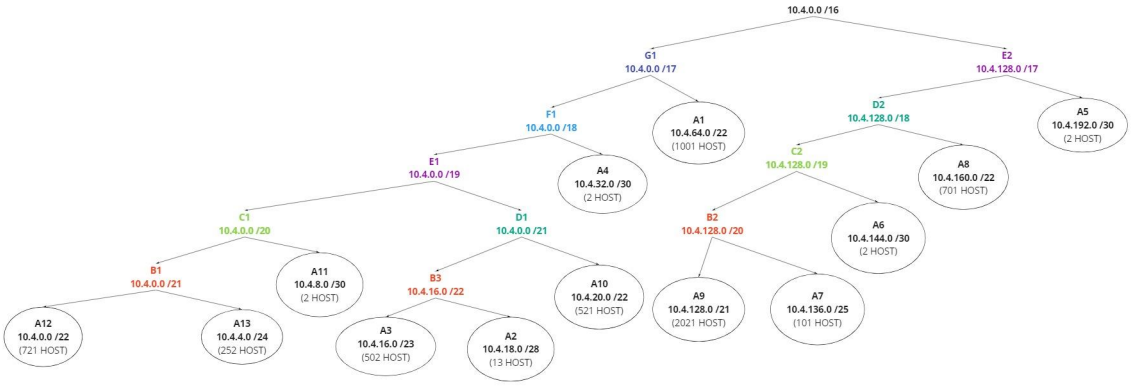
Switch-PT Switch17
2811 OIMO
Switch-PT Switch18
2811 SEASTONE
Switch-PT Switch20
Server-PT FUKUROU
PC-PT ELENA (720 Host)

miro


E2 /17
D2 /18
C2 / 19
B2 /20
B1 /21
C1 /20
D1 /21
B3 /22
F1 /18
E1 /19
G1 /17
A8 /=22
A1 /=22
A6 /=30
A5 /=30
A7 /=25
A4 /= 30
A10 /= 22
A3 /= 23
A2 /= 28
A9 /=21
A11 /= 30
A13 /= 24
A12 /= 22
CIPHER (700 Host)
BLUENO (1000 Host)
CLOUD
JIPANGU (100 Host)
COURTYARD (1020 Host)
ENESLOBBY (250 Host)
ELENA (720 Host)
DORIKI
ALABASTA
OIMO
SEASTONE
FUKUROU
miro


H1 /16
E2 /17
D2 /18
C2 / 19
B2 /20
B1 /21
C1 /20
D1 /21
B3 /22
F1 /18
E1 /19
G1 /17
A8 /=22
A1 /=22
A6 /=30
A5 /=30
A7 /=25
A4 /= 30
A10 /= 22
A3 /= 23
A2 /= 28
A9 /=21
A11 /= 30
A13 /= 24
A12 /= 22
CIPHER (700 Host)
BLUENO (1000 Host)
CLOUD
JIPANGU (100 Host)
COURTYARD (1020 Host)
ENESLOBBY (250 Host)
ELENA (720 Host)
DORIKI
ALABASTA
OIMO
SEASTONE
FUKUROU
miro

Pohon pembagian IP



miro

A1	Network ID	10.4.64.0
	Netmask	255.255.252.0
	Broadcast Address	10.4.67.255
A2	Network ID	10.4.18.0
	Netmask	255.255.255.240
	Broadcast Address	10.4.18.15
A3	Network ID	10.4.16.0
	Netmask	255.255.254.0
	Broadcast Address	10.4.17.255
A4	Network ID	10.4.32.0
	Netmask	255.255.255.252
	Broadcast Address	10.4.32.3
A5	Network ID	10.4.192.0
	Netmask	255.255.255.252
	Broadcast Address	10.4.192.3
A6	Network ID	10.4.144.0
	Netmask	255.255.255.252
	Broadcast Address	10.4.144.3

A7	Network ID	10.4.136.0
	Netmask	255.255.255.128
	Broadcast Address	10.4.136.127
A8	Network ID	10.4.160.0
	Netmask	255.255.252.0
	Broadcast Address	10.4.163.255
A9	Network ID	10.4.128.0
	Netmask	255.255.248.0
	Broadcast Address	10.4.135.255
A10	Network ID	10.4.20.0
	Netmask	255.255.252.0
	Broadcast Address	10.4.23.255
A11	Network ID	10.4.8.0
	Netmask	255.255.255.252
	Broadcast Address	10.4.8.3
A12	Network ID	10.4.0.0
	Netmask	255.255.252.0
	Broadcast Address	10.4.3.255
A13	Network ID	10.4.4.0
	Netmask	255.255.255.0
	Broadcast Address	10.4.4.255