



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF ENGINEERING SCHOOL OF COMPUTING

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SECR2242 – COMPUTER NETWORK

SECTION 01

GROUP PROJECT
TASK 3: ADDRESSING THE TOPOLOGY

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Table of Contents

Introduction.....	1
IP Addressing.....	4
Computer Security Lab.....	4
Network Lab	6
General Purpose Lab.....	8
IOT Lab.....	10
Conference Room 1	12
Conference Room 2	13
Access Point 1.....	14
Access Point 2.....	15
Router.....	16
Minutes Meeting	17

Introduction

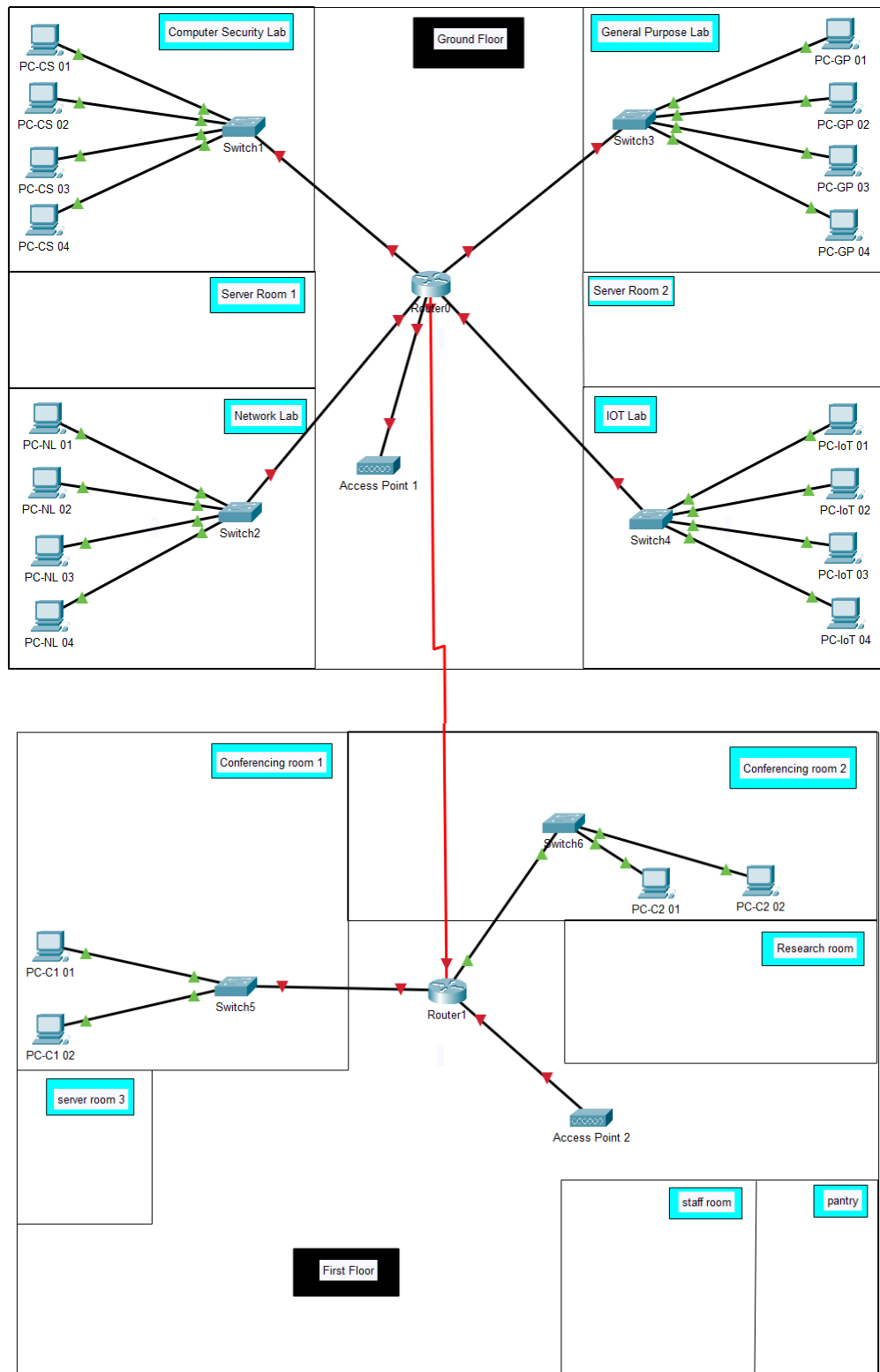


Figure 1 Network Topology

Figure 1 above is our proposed network topology for the new building of the School of Computing. We decide to divide our network topology into 9 subnets of different sizes of hosts. We assign the number of hosts for each lab greater than the hosts required because the unused IP address can be used when we need to add more PC or hosts to the network to support future growth. We decide to use /26 subnet masks for each lab to support 64 hosts including network address and broadcast address. Each of the conference rooms can support up to 6 hosts with the use of /29 subnet masks. Each access point will need 4 IP addresses including network and broadcast address, /30 will be used for the subnet mask. Lastly, for the subnet interconnecting router on the ground floor and first floor, we will also use /30 for the subnet mask which will be enough for the interface of each router, network, and broadcast address. The table below show the process of subnetting for each LAN.

172	.	16	.	xx	.	xx		
10101100.00010000.00011000.00000000								
				00011000.00111111			S0-CS	/26
				00011000.01000000				
				00011000.01111111			S1-NL	/26
				00011000.10000000				
				00011000.10111111			S2-GP	/26
				00011000.11000000				
				00011000.11111111			S3-IoT	/26
				00011001.00000000				
				00011001.00000111			S4-CR1	/29
				00011001.00001000				
				00011001.00001111			S5-CR2	/29
				00011001.00010000				
				00011001.00010011			S6-AP1	/30
				00011001.00010100				
				00011001.00010111			S7-AP2	/30
				00011001.00011000				
				00011001.00011011			S8-Router	/30

IP Addresses Table

Subnet	Room	Network address	Broadcast address	Usable address range	Subnet mask
0	Computer Security Lab	172.16.24.0	172.16.24.63	172.16.24.1–172.16.24.62	/26 or 255.255.255.192
1	Network Lab	172.16.24.64	172.16.24.127	172.16.24.65 – 172.16.24.126	/26 or 255.255.255.192
2	General Purpose Lab	172.16.24.128	172.16.24.191	172.16.24.129-172.16.24.190	/26 or 255.255.255.192
3	IoT Lab	172.16.24.192	172.16.24.255	172.16.24.193 - 172.16.24.254	/26 or 255.255.255.192
4	Conferencing Room 1	172.16.25.0	172.16.25.7	172.16.25.1 - 172.16.25.6	/29 or 255.255.255.248
5	Conferencing Room 2	172.16.25.8	172.16.25.15	172.16.25.9-172.16.25.14	/29 or 255.255.255.248
6	Access Point 1	172.16.25.16	172.16.25.19	172.16.25.17-172.16.25.18	/30 or 255.255.255.252
7	Access Point 2	172.16.25.20	172.16.25.23	172.16.25.21-172.16.25.22	/30 or 255.255.255.252
8	Router0 to Router1	172.16.25.24	172.16.25.27	172.16.25.25-172.16.25.26	/30 or 255.255.255.252

IP Addressing

Computer Security Lab

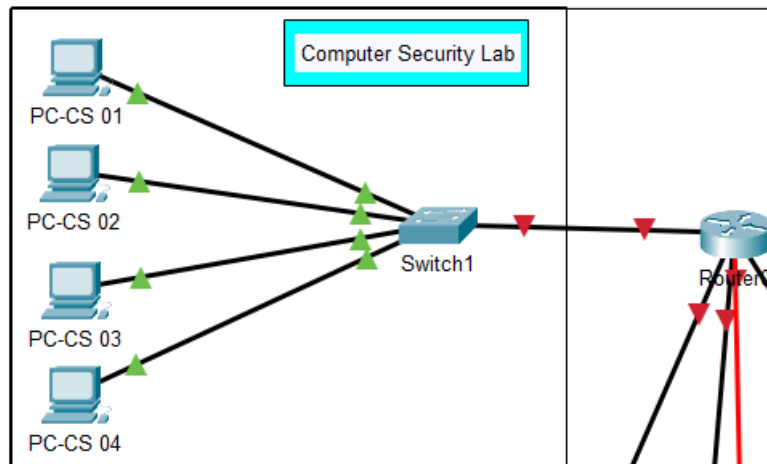


Figure 2 Computer Security

We assigned Computer Security Lab as Subnet 0 and its Network Address is 172.16.24.0/26

	Dotted decimal	Dotted binary
IP address of network	172.16.24.0	10101100.00010000.00011000.00000000 (Black – network portion, red – host portion)
Subnet mask	/26 or 255.255.255.192	11111111.11111111.11111111.11000000
Network address (IP Address AND Subnet Mask)	172.16.24.0	10101100.00010000.00011000.00000000
Broadcast address (The host portion change to 1's)	172.16.24.63	10101100.00010000.00011000.00111111
Range of usable IP address	172.16.24.1– 172.16.24.62	10101100.00010000.00011000.00000001- 10101100.00010000.00011000.00111110

Addressing Table for Computer Security Lab (Subnet 0)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1.	Router0	Gig6/0	172.16.24.1	255.255.255.192	N/A
2.	Switch1	VLAN 1	172.16.24.2	255.255.255.192	172.16.24.1
3.	PC-CS 01	Fa0	172.16.24.3	255.255.255.192	172.16.24.1
4.	PC-CS 02	Fa0	172.16.24.4	255.255.255.192	172.16.24.1
5.	PC-CS 03	Fa0	172.16.24.5	255.255.255.192	172.16.24.1
6.	PC-CS 04	Fa0	172.16.24.6	255.255.255.192	172.16.24.1
7.	PC-CS 05	Fa0	172.16.24.7	255.255.255.192	172.16.24.1
8.	PC-CS 06	Fa0	172.16.24.8	255.255.255.192	172.16.24.1
9.	PC-CS 07	Fa0	172.16.24.9	255.255.255.192	172.16.24.1
10.	PC-CS 08	Fa0	172.16.24.10	255.255.255.192	172.16.24.1
11.	PC-CS 09	Fa0	172.16.24.11	255.255.255.192	172.16.24.1
12.	PC-CS 10	Fa0	172.16.24.12	255.255.255.192	172.16.24.1
13.	PC-CS 11	Fa0	172.16.24.13	255.255.255.192	172.16.24.1
14.	PC-CS 12	Fa0	172.16.24.14	255.255.255.192	172.16.24.1
15.	PC-CS 13	Fa0	172.16.24.15	255.255.255.192	172.16.24.1
16.	PC-CS 14	Fa0	172.16.24.16	255.255.255.192	172.16.24.1
17.	PC-CS 15	Fa0	172.16.24.17	255.255.255.192	172.16.24.1
18.	PC-CS 16	Fa0	172.16.24.18	255.255.255.192	172.16.24.1
19.	PC-CS 17	Fa0	172.16.24.19	255.255.255.192	172.16.24.1
20.	PC-CS 18	Fa0	172.16.24.20	255.255.255.192	172.16.24.1
21.	PC-CS 19	Fa0	172.16.24.21	255.255.255.192	172.16.24.1
22.	PC-CS 20	Fa0	172.16.24.22	255.255.255.192	172.16.24.1
23.	PC-CS 21	Fa0	172.16.24.23	255.255.255.192	172.16.24.1
24.	PC-CS 22	Fa0	172.16.24.24	255.255.255.192	172.16.24.1
25.	PC-CS 23	Fa0	172.16.24.25	255.255.255.192	172.16.24.1
26.	PC-CS 24	Fa0	172.16.24.26	255.255.255.192	172.16.24.1
27.	PC-CS 25	Fa0	172.16.24.27	255.255.255.192	172.16.24.1
	<i>For future pc</i>	<i>Fa0</i>	<i>172.16.24.28 – 172.16.24.62</i>	<i>255.255.255.192</i>	<i>172.16.24.1</i>

Network Lab

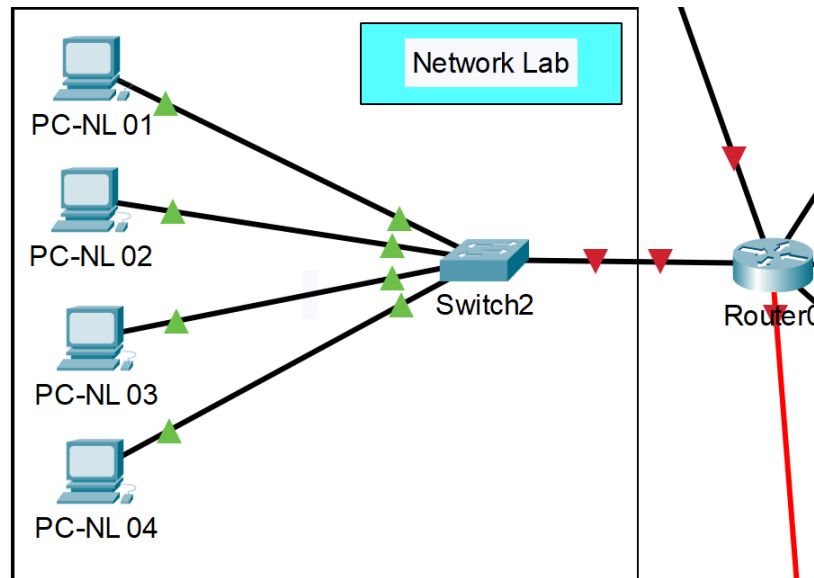


Figure 3 Network Lab

We assigned Network Lab as Subnet 1 and its Network Address is 172.16.24.64/26

	Dotted decimal	Dotted binary
IP address of network	172.16.24.64	10101100.00010000.00011000.01000000 (Black – network portion, red – host portion)
Subnet mask	/26 or 255.255.255.192	11111111.11111111.11111111.11000000
Network address (IP Address AND Subnet Mask)	172.16.24.64	10101100.00010000.00011000.01000000
Broadcast address (The host portion change to 1's)	172.16.24.127	10101100.00010000.00011000.01111111
Range of usable IP address	172.16.24.65 – 172.16.24.126	10101100.00010000.00011000.01000001 - 10101100.00010000.00011000.01111110

Addressing Table for Network Lab (Subnet 1)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1.	Router0	Gig7/0	172.16.24.65	255.255.255.192	N/A
2.	Switch2	VLAN 1	172.16.24.66	255.255.255.192	172.16.24.65
3.	PC-NL 01	Fa0	172.16.24.67	255.255.255.192	172.16.24.65
4.	PC-NL 02	Fa0	172.16.24.68	255.255.255.192	172.16.24.65
5.	PC-NL 03	Fa0	172.16.24.69	255.255.255.192	172.16.24.65
6.	PC-NL 04	Fa0	172.16.24.70	255.255.255.192	172.16.24.65
7.	PC-NL 05	Fa0	172.16.24.71	255.255.255.192	172.16.24.65
8.	PC-NL 06	Fa0	172.16.24.72	255.255.255.192	172.16.24.65
9.	PC-NL 07	Fa0	172.16.24.73	255.255.255.192	172.16.24.65
10.	PC-NL 08	Fa0	172.16.24.74	255.255.255.192	172.16.24.65
11.	PC-NL 09	Fa0	172.16.24.75	255.255.255.192	172.16.24.65
12.	PC-NL 10	Fa0	172.16.24.76	255.255.255.192	172.16.24.65
13.	PC-NL 11	Fa0	172.16.24.77	255.255.255.192	172.16.24.65
14.	PC-NL 12	Fa0	172.16.24.78	255.255.255.192	172.16.24.65
15.	PC-NL 13	Fa0	172.16.24.79	255.255.255.192	172.16.24.65
16.	PC-NL 14	Fa0	172.16.24.80	255.255.255.192	172.16.24.65
17.	PC-NL 15	Fa0	172.16.24.81	255.255.255.192	172.16.24.65
18.	PC-NL 16	Fa0	172.16.24.82	255.255.255.192	172.16.24.65
19.	PC-NL 17	Fa0	172.16.24.83	255.255.255.192	172.16.24.65
20.	PC-NL 18	Fa0	172.16.24.84	255.255.255.192	172.16.24.65
21.	PC-NL 19	Fa0	172.16.24.85	255.255.255.192	172.16.24.65
22.	PC-NL 20	Fa0	172.16.24.86	255.255.255.192	172.16.24.65
23.	PC-NL 21	Fa0	172.16.24.87	255.255.255.192	172.16.24.65
24.	PC-NL 22	Fa0	172.16.24.88	255.255.255.192	172.16.24.65
25.	PC-NL 23	Fa0	172.16.24.89	255.255.255.192	172.16.24.65
26.	PC-NL 24	Fa0	172.16.24.90	255.255.255.192	172.16.24.65
27.	PC-NL 25	Fa0	172.16.24.91	255.255.255.192	172.16.24.65
28.	PC-NL 26	Fa0	172.16.24.92	255.255.255.192	172.16.24.65
29.	PC-NL 27	Fa0	172.16.24.93	255.255.255.192	172.16.24.65
30.	PC-NL 28	Fa0	172.16.24.94	255.255.255.192	172.16.24.65
31.	PC-NL 29	Fa0	172.16.24.95	255.255.255.192	172.16.24.65
32.	PC-NL 30	Fa0	172.16.24.96	255.255.255.192	172.16.24.65
33.	PC-NL 31	Fa0	172.16.24.97	255.255.255.192	172.16.24.65
34.	PC-NL 32	Fa0	172.16.24.98	255.255.255.192	172.16.24.65
	<i>For future pc</i>	<i>Fa0</i>	<i>172.16.24.99 - 172.16.24.126</i>	255.255.255.192	172.16.24.65

General Purpose Lab

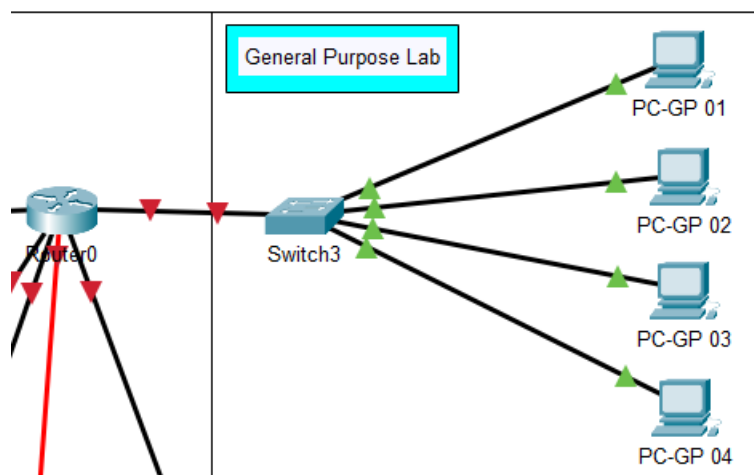


Figure 4 General Purpose lab

We assigned Network Lab as Subnet 2 and its Network Address is 172.16.24.128/26

	Dotted decimal	Dotted binary
IP address of network	172.16.24.128	10101100.00010000.00011000.10000000 (Black – network portion, red – host portion)
Subnet mask	/26 or 255.255.255.192	11111111.11111111.11111111.11000000
Network address (IP Address AND Subnet Mask)	172.16.24.128	10101100.00010000.00011000.10000000
Broadcast address (The host portion change to 1's)	172.16.24.191	10101100.00010000.00011000.10111111
Range of usable IP address	172.16.24.129- 172.16.24.190	10101100.00010000.00011000.10000001 - 10101100.00010000.00011000.10111110

Addressing Table for General Purpose Lab (Subnet 2)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1.	Router0	Gig8/0	172.16.24.129	255.255.255.192	N/A
2.	Switch3	VLAN 1	172.16.24.130	255.255.255.192	172.16.24.129
3.	PC-GP 01	Fa0	172.16.24.131	255.255.255.192	172.16.24.129
4.	PC-GP 02	Fa0	172.16.24.132	255.255.255.192	172.16.24.129
5.	PC-GP 03	Fa0	172.16.24.133	255.255.255.192	172.16.24.129
6.	PC-GP 04	Fa0	172.16.24.134	255.255.255.192	172.16.24.129
7.	PC-GP 05	Fa0	172.16.24.135	255.255.255.192	172.16.24.129
8.	PC-GP 06	Fa0	172.16.24.136	255.255.255.192	172.16.24.129
9.	PC-GP 07	Fa0	172.16.24.137	255.255.255.192	172.16.24.129
10.	PC-GP 08	Fa0	172.16.24.138	255.255.255.192	172.16.24.129
11.	PC-GP 09	Fa0	172.16.24.139	255.255.255.192	172.16.24.129
12.	PC-GP 10	Fa0	172.16.24.140	255.255.255.192	172.16.24.129
13.	PC-GP 11	Fa0	172.16.24.141	255.255.255.192	172.16.24.129
14.	PC-GP 12	Fa0	172.16.24.142	255.255.255.192	172.16.24.129
15.	PC-GP 13	Fa0	172.16.24.143	255.255.255.192	172.16.24.129
16.	PC-GP 14	Fa0	172.16.24.144	255.255.255.192	172.16.24.129
17.	PC-GP 15	Fa0	172.16.24.145	255.255.255.192	172.16.24.129
18.	PC-GP 16	Fa0	172.16.24.146	255.255.255.192	172.16.24.129
19.	PC-GP 17	Fa0	172.16.24.147	255.255.255.192	172.16.24.129
20.	PC-GP 18	Fa0	172.16.24.148	255.255.255.192	172.16.24.129
21.	PC-GP 19	Fa0	172.16.24.149	255.255.255.192	172.16.24.129
22.	PC-GP 20	Fa0	172.16.24.150	255.255.255.192	172.16.24.129
23.	PC-GP 21	Fa0	172.16.24.151	255.255.255.192	172.16.24.129
24.	PC-GP 22	Fa0	172.16.24.152	255.255.255.192	172.16.24.129
25.	PC-GP 23	Fa0	172.16.24.153	255.255.255.192	172.16.24.129
26.	PC-GP 24	Fa0	172.16.24.154	255.255.255.192	172.16.24.129
27.	PC-GP 25	Fa0	172.16.24.155	255.255.255.192	172.16.24.129
28.	PC-GP 26	Fa0	172.16.24.156	255.255.255.192	172.16.24.129
29.	PC-GP 27	Fa0	172.16.24.157	255.255.255.192	172.16.24.129
30.	PC-GP 28	Fa0	172.16.24.158	255.255.255.192	172.16.24.129
31.	PC-GP 29	Fa0	172.16.24.159	255.255.255.192	172.16.24.129
32.	PC-GP 30	Fa0	172.16.24.160	255.255.255.192	172.16.24.129
33.	PC-GP 31	Fa0	172.16.24.161	255.255.255.192	172.16.24.129
	<i>For future PC</i>	<i>Fa0</i>	<i>172.16.24.162- 172.16.24.190</i>	<i>255.255.255.192</i>	<i>172.16.24.129</i>

IOT Lab

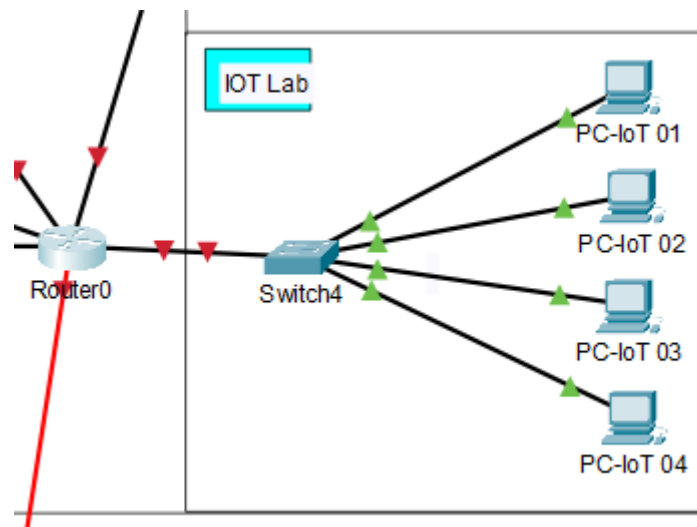


Figure 5 IoT Lab

We assigned IoT Lab as Subnet 3 and its Network Address is 172.16.24.192/26

	Dotted decimal	Dotted binary
IP address of network	172.16.24.192	10101100.00010000.00011000.11000000 (Black – network portion, red – host portion)
Subnet mask	/26 or 255.255.255.192	11111111.11111111.11111111.11000000
Network address (IP Address AND Subnet Mask)	172.16.24.192	10101100.00010000.00011000.11000000
Broadcast address (The host portion change to 1's)	172.16.24.255	10101100.00010000.00011000.11111111
Range of usable IP address	172.16.24.193 – 172.16.24.254	10101100.00010000.00011000.11000001 – 10101100.00010000.00011000.11111110

Addressing Table for IoT Lab (Subnet 3)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1.	Router0	Gig9/0	172.16.24.193	255.255.255.192	N/A
2.	Switch4	VLAN 1	172.16.24.194	255.255.255.192	172.16.24.193
3.	PC-IOT 01	Fa0	172.16.24.195	255.255.255.192	172.16.24.193
4.	PC-IOT 02	Fa0	172.16.24.196	255.255.255.192	172.16.24.193
5.	PC-IOT 03	Fa0	172.16.24.197	255.255.255.192	172.16.24.193
6.	PC-IOT 04	Fa0	172.16.24.198	255.255.255.192	172.16.24.193
7.	PC-IOT 05	Fa0	172.16.24.199	255.255.255.192	172.16.24.193
8.	PC-IOT 06	Fa0	172.16.24.200	255.255.255.192	172.16.24.193
9.	PC-IOT 07	Fa0	172.16.24.201	255.255.255.192	172.16.24.193
10.	PC-IOT 08	Fa0	172.16.24.202	255.255.255.192	172.16.24.193
11.	PC-IOT 09	Fa0	172.16.24.203	255.255.255.192	172.16.24.193
12.	PC-IOT 10	Fa0	172.16.24.204	255.255.255.192	172.16.24.193
13.	PC-IOT 11	Fa0	172.16.24.205	255.255.255.192	172.16.24.193
14.	PC-IOT 12	Fa0	172.16.24.206	255.255.255.192	172.16.24.193
15.	PC-IOT 13	Fa0	172.16.24.207	255.255.255.192	172.16.24.193
16.	PC-IOT 14	Fa0	172.16.24.208	255.255.255.192	172.16.24.193
17.	PC-IOT 15	Fa0	172.16.24.209	255.255.255.192	172.16.24.193
18.	PC-IOT 16	Fa0	172.16.24.210	255.255.255.192	172.16.24.193
19.	PC-IOT 17	Fa0	172.16.24.211	255.255.255.192	172.16.24.193
20.	PC-IOT 18	Fa0	172.16.24.212	255.255.255.192	172.16.24.193
21.	PC-IOT 19	Fa0	172.16.24.213	255.255.255.192	172.16.24.193
22.	PC-IOT 20	Fa0	172.16.24.214	255.255.255.192	172.16.24.193
23.	PC-IOT 21	Fa0	172.16.24.215	255.255.255.192	172.16.24.193
24.	PC-IOT 22	Fa0	172.16.24.216	255.255.255.192	172.16.24.193
25.	PC-IOT 23	Fa0	172.16.24.217	255.255.255.192	172.16.24.193
26.	PC-IOT 24	Fa0	172.16.24.218	255.255.255.192	172.16.24.193
27.	PC-IOT 25	Fa0	172.16.24.219	255.255.255.192	172.16.24.193
	<i>For future pc</i>	<i>Fa0</i>	<i>172.16.24.220-172.16.24.254</i>	<i>255.255.255.192</i>	<i>172.16.24.193</i>

Conference Room 1

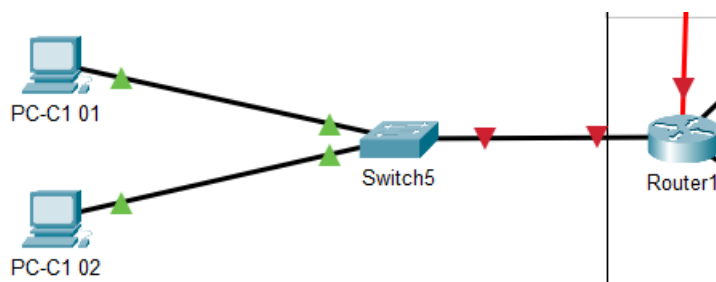


Figure 6 Conference Room 1

We assigned Conference Room 1 as Subnet 4 and its Network Address is 172.16.25.0/29

	Dotted decimal	Dotted binary
IP address of network	172.16.25.0	10101100.00010000.00011001.00000000 (Black – network portion, red – host portion)
Subnet mask	/29 or 255.255.255.248	11111111.11111111.11111111.11111000
Network address (IP Address AND Subnet Mask)	172.16.25.0	10101100.00010000.00011001.00000000
Broadcast address (The host portion change to 1's)	172.16.25.7	10101100.00010000.00011001.00000111
Range of usable IP address	172.16.25.1– 172.16.25.6	10101100.00010000.00011001.00000001 – 10101100.00010000.00011001.00000110

Addressing Table for Conference Room 1 (Subnet 4)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1	Router1	Gig0/0/0	172.16.25.1	255.255.255.248	NA
2	Switch5	VLAN 1	172.16.25.2	255.255.255.248	172.16.25.1
3	PC-C1 01	Fa0	172.16.25.3	255.255.255.248	172.16.25.1
4	PC-C1 02	Fa0	172.16.25.4	255.255.255.248	172.16.25.1
	<i>For future pc</i>	<i>Fa0</i>	<i>172.16.25.5- 172.16.25.6</i>	<i>255.255.255.248</i>	<i>172.16.25.1</i>

Conference Room 2

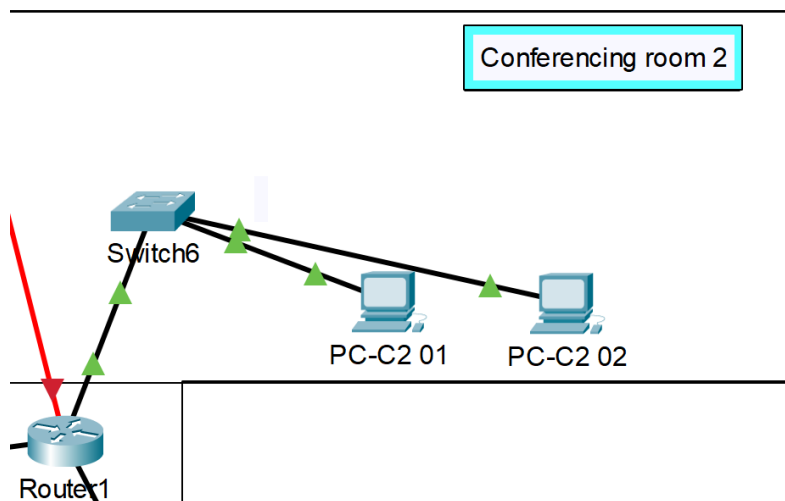


Figure 7 Conference Room 2

We assigned Conference Room 2 as Subnet 5 and its Network Address is 172.16.25.8/29

	Dotted decimal	Dotted binary
IP address of network	172.16.25.8	10101100.00010000.00011001.00001000 (Black – network portion, red – host portion)
Subnet mask	/29 or 255.255.255.248	11111111.11111111.11111111.11111000
Network address (IP Address AND Subnet Mask)	172.16.25.8	10101100.00010000.00011001.00001000
Broadcast address (The host portion change to 1's)	172.16.25.15	10101100.00010000.00011001.00001111
Range of usable IP address	172.16.25.9 – 172.16.25.14	10101100.00010000.00011001.00001001 – 10101100.00010000.00011001.00001110

Addressing Table for Conference Room 2 (Subnet 5)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1	Router1	Gig0/1/0	172.16.25.9	255.255.255.248	NA
2	Switch6	VLAN 1	172.16.25.10	255.255.255.248	172.16.25.9
3	PC-C2 01	Fa0	172.16.25.11	255.255.255.248	172.16.25.9
4	PC-C2 02	Fa0	172.16.25.12	255.255.255.248	172.16.25.9
	For future pc		172.16.25.13- 172.16.25.14	255.255.255.248	172.16.25.9

Access Point 1

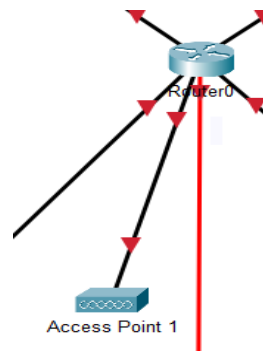


Figure 8 Access Point 1

We assigned Router0-Access Point 1 as Subnet 6 and its Network Address is 172.16.25.16/30

	Dotted decimal	Dotted binary
IP address of network	172.16.25.16	10101100.00010000.00011001.00010000 (Black – network portion, red – host portion)
Subnet mask	/30 or 255.255.255.252	11111111.11111111.11111111.11111100
Network address (IP Address AND Subnet Mask)	172.16.25.16	10101100.00010000.00011001.00010000
Broadcast address (The host portion change to 1's)	172.16.25.19	10101100.00010000.00011001.00010011
Range of usable IP address	172.16.25.17- 172.16.25.18	10101100.00010000.00011001.00010001 – 10101100.00010000.00011001.00010010

Addressing Table for Router0- Access Point1 (Subnet 6)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1	Router0	Fa0/0	172.16.25.17	255.255.255.252	N/A
2	Access Point1	Gig0	172.16.25.18	255.255.255.252	172.16.25.17

Access Point 2

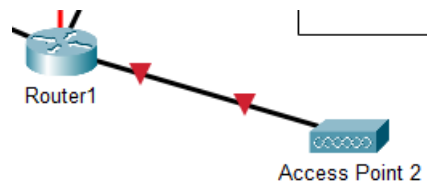


Figure 9 Access Point 2

We assigned Router1- Access Point 2 as Subnet 7 and its Network Address is 172.16.25.20/30

	Dotted decimal	Dotted binary
IP address of network	172.16.25.20	10101100.00010000.00011001.00010100 (Black – network portion, red – host portion)
Subnet mask	/30 or 255.255.255.252	11111111.11111111.11111111.11111100
Network address (IP Address AND Subnet Mask)	172.16.25.20	10101100.00010000.00011001.00010100
Broadcast address (The host portion change to 1's)	172.16.25.23	10101100.00010000.00011001.00010111
Range of usable IP address	172.16.25.21- 172.16.25.22	10101100.00010000.00011001.00010101 - 10101100.00010000.00011001.00010110

Addressing Table for Router1-Access Point2 (Subnet 7)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1	Router1	Gig0/0/1	172.16.25.21	255.255.255.252	N/A
2	Access Point2	Gig0	172.16.25.22	255.255.255.252	172.16.25.21

Router



Figure 10 Router

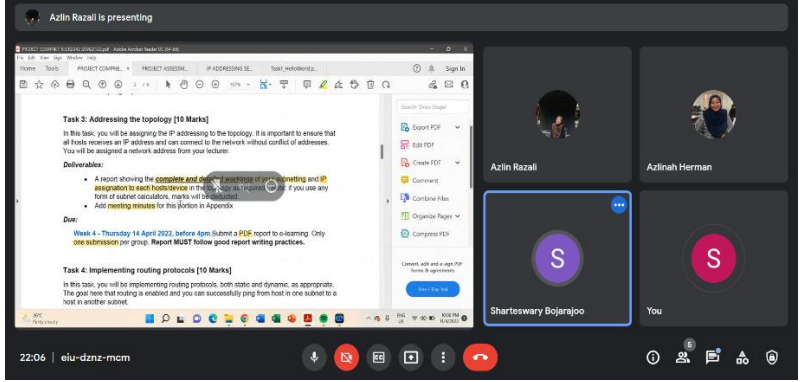
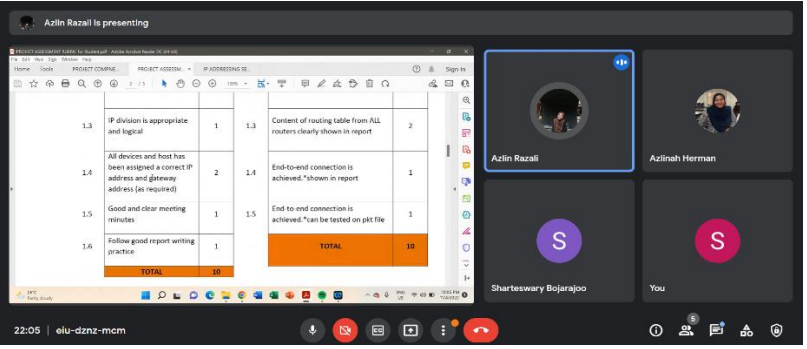
We assigned Router0-Router1 as Subnet 8 and its Network Address is 172.16.25.24/30

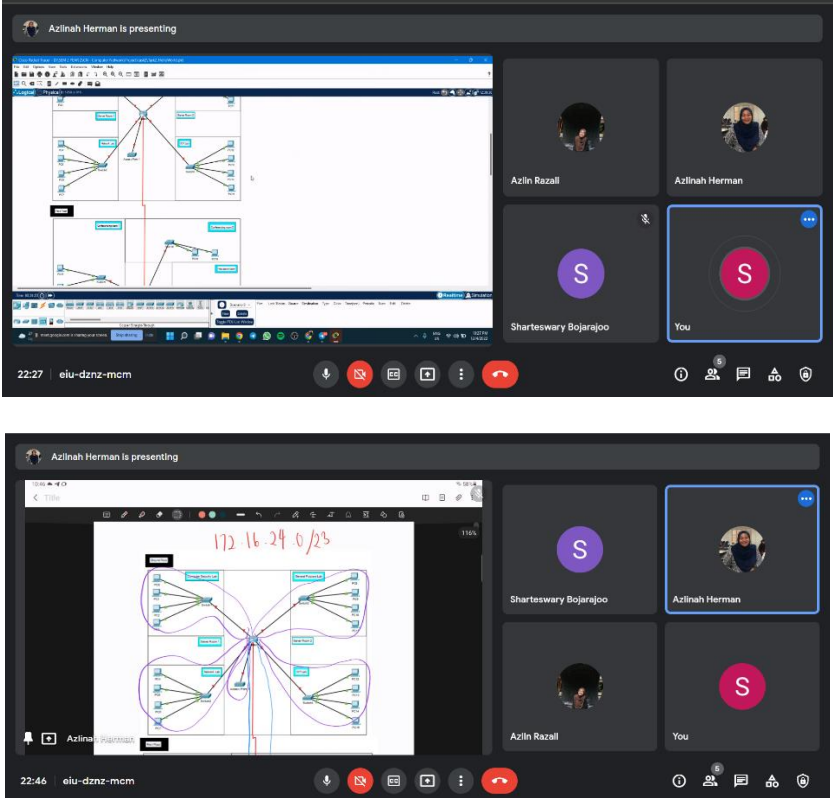
	Dotted decimal	Dotted binary
IP address of network	172.16.25.24	10101100.00010000.00011001.00011000 (Black – network portion, red – host portion)
Subnet mask	/30 or 255.255.255.252	11111111.11111111.11111111.11111100
Network address (IP Address AND Subnet Mask)	172.16.25.24	10101100.00010000.00011001.00011000
Broadcast address (The host portion change to 1's)	172.16.25.27	10101100.00010000.00011001.00011011
Range of usable IP address	172.16.25.25 - 172.16.25.26	10101100.00010000.00011001.00011001 - 10101100.00010000.00011001.00011010

Addressing Table for Router0-Router1 (Subnet 8)

#	Device	Interface	IP Address	Subnet Mask	Default Gateway
1	Router0	S2/0	172.16.25.25	255.255.255.252	N/A
2	Router1	S0/2/0	172.16.25.26	255.255.255.252	N/A

Minutes Meeting

Date	Activity	Proof
11/04/2022	- We reviewed the instruction and assessment rubric for Task 3. Azlin displayed the topology in packet tracer as Azlinah, Hajar and Sharteswary discussed to determine the total subnets in the topology. - We encountered the problem to divide the subnets hence we collected the questions to be asked during class tomorrow. - Questions: - Is the server is needed in the topology? (Sharteswary) - Do we need to remove excessive switches on ground and first floor? (Azlinah) - Does the subnet start with the connection to the router? (Hajar) - Is the firewall and internet are needed? (Azlin)	 

12/04/2022	• Azlinah adjusts of the topology in the packet tracer and assist by Azlin, Hajar and Sharteswary. • We calculate the subnets needed for the topology. • Azlinah write the subnets to be assigned according to the topology. • Azlin, Azlinah, Hajar and Sharteswary configure the network and broadcast addresses for each subnet. • We divided the subnets as below: Azlinah: Computer Security Lab, Conference Room 1 Azlin: Network Lab, Conference Room 2 Hajar: IoT lab, Router Sharteswary: General Purpose Lab, Access Point 1 & 2.	
14/04/2022	• We make final adjustments in the report. • Azlin created cover page and numbering. • Hajar wrote minute meetings.	