

2021



INTRODUCTION TO NETWORKING

INDIVIDUAL ASSIGNMENT

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INTAKE: APD1F2109CS(CYB)

PENANG FLOOR 1

MODULE: CT043-3-1-IN (DEGREE)

APU UNIVERSITY | LECTURER: JOSHUA SAMUEL

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FULL-2D FLOOR PLAN

The **floor** consists of a large reception hall, **10 Departments**, a cafeteria, bathrooms, and an emergency exit.

ROOM	MONITOR	PC	PRINTER	INTERNET PHONE	CAM	IOT SMOKE DETECTOR	AIR CONDITIONER	ALL
RECEPTION AREA	2	2	1	1	9	4	5	24
WAITING ROOM	1	1	1	1	2	2	2	10
CEO ROOM	0	1	1	1	1	1	1	6
CTO ROOM	0	2	1	2	1	1	1	8
ADMINISTRATIVE OFFICE	0	7	1	1	2	1	3	15
SECURITY AND DELIVERY DEPARTMENTS	0	10	2	1	3	2	3	21
FINANCE AND SALES	0	17	1	1	3	2	4	28
CCTV MONITORING ROOM	8	1	1	1	1	1	1	14
CAFETERIA	1	1	1	1	3	2	4	13
WORKERS ROOM	1	3	1	1	2	1	3	12
ALL	13	45	11	11	27	17	27	151



FULL-3D FLOOR PLAN

JUSTIFICATION OF FLOOR PLAN

RECEPTION



When entering the first floor, there is a wall in the middle of the reception that contains a large TV and a large plant. There are two elevators to the right of the entrance and there is a staircase next to them. Each elevator can accommodate 4 people. On both sides of the entrance, there are green plants for beautification. In the front there is a large reception hall that contains two offices for reception staff, each of them has its own computer. The offices are decorated with some plants that make the employees feel psychologically comfortable while working. There are also waiting for seats next to the entrance to each room, and plants are spread in the corner of the reception hall to add an aesthetic touch. All rooms overlook the reception area.



CCTV MONITORING ROOM



To the left of the entrance there is a camera control room, and there are 8 monitoring screens and one printer. There are several advantages of CCTV monitoring room: Crime Deterrent, Peace of Mind, Evidence Collection, Dispute Settlement, Better Policy Implementation, Versatility, Helps Businesses Reduce Costs, Improves Business Reputation, and Improves Sales.

WAITING ROOM



Next to the CCTV room, there is a waiting room. The room is divided into two parts: The first section is the reading section, and the other section is the viewing section. Each section is provided with comfortable seats for visitors, considering the appropriate lighting for each section. There is also an air-conditioning unit and a surveillance camera. The administrative office plus the finance and sales department will be having the most visitors from non-employees, it is logical to have the waiting room located near these two offices. Although both offices have sofas, they are designed for very quick inquiries and tickets; however, for longer requests or large, time-consuming tickets, it would be better for the requester to wait in the waiting room instead.



CTO ROOM



To the left of the waiting room, is the CTO room which contains two staff offices, each office has a computer and one printer. Also, there are waiting seats on both sides of the entrance to the room and in the middle. The room also has an air-conditioner to keep the place at an appropriate temperature. Technology officers play an important role in modern business. These professionals oversee the coordination of various technology-related activities as well as oversee the function and efficiency of the company's systems.

CEO R-O-O-M

After that, there is the CEO's office, which contains a large office attached to a computer, printer, and an internet phone. In front of the office, there are two chairs with a round table for the visitors of the CEO. To the right of the entrance, there is a large library. In addition to the presence of a surveillance camera and air-conditioning. One of the most coveted titles in a company is the CEO, and this job is one of the least understood. Everyone believes that CEOs can do whatever they want, and they are all powerful and magically efficient.



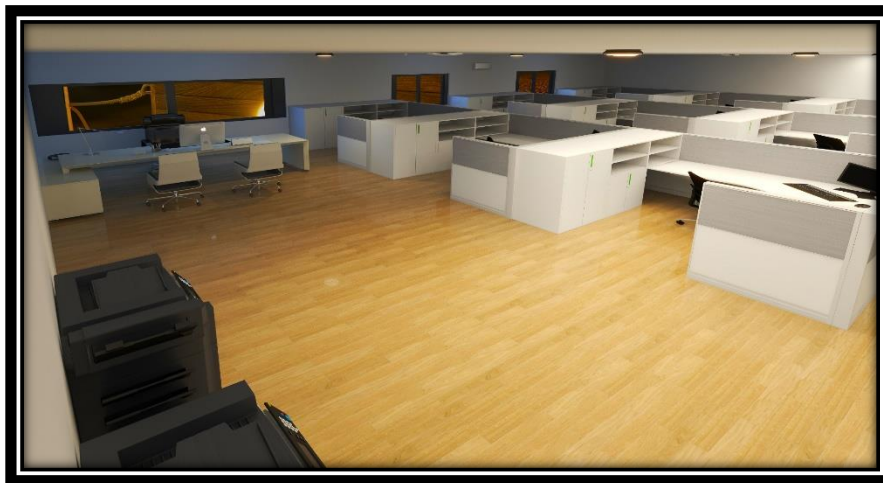
EMERGENCY EXIT

Then on the west side of the building there is an emergency exit which contains two staircases connected to the upper floor, and the emergency exit divides the reception hall into two parts to the right of the exit and to the left of it. Emergency exit routes are important because they provide a clear and safe way to evacuate the building in the event of a crisis or disaster.



SECURITY AND DELIVERY DEPARTMENT

In the northwest corner of the first floor, there is a security room that contains the main office for the supervisor with two seats and with his



own computer and internet phone. There are also nine other offices. Each employee has his or her own office, which includes a computer, but all offices share two printers. The room

is monitored by 3 CCTV cameras. The security and delivery office do not have any sofas because the security department should not have many employees who are not authorized to enter the office due to the sensitivity of the data being handled. Besides, the delivery department must deliver things, which means that it shouldn't deal with incoming requests from employees.

FINANCE AND SALES DEPARTMENT



Next, we have the finance room which has a head office for the head of the department, and he has his own computer, his own internet phone, and two chairs. The room contains 16



desks in total, each desk has a computer in it for each employee. The room looks nice with some flowers in the room. There is a printer shared between all offices. The room is located near the front desk.

WORKERS' ROOM

There is also a room for workers that lies between the cafeteria and the finance room, which contains a corner for meals and light drinks. There is also a kitchen dedicated to this room. and there are 3 offices, and each office is in its own block, and in front of them is an entertainment corner for entertainment.



CAFETERIA

The cafeteria is one of the most important sections in the building, as it receives both employees and company visitors. Therefore, it had to be designed appropriately, so the room was adequately conditioned to keep it at the best suitable temperature and to be monitored by cameras deployed around the room. The cafeteria includes a full kitchen in addition to a refrigerator for cooling drinks. It also contains a display place for sweets such as cakes and donuts. This room contains 4 tables, each table surrounded by 4 chairs, and to entertain visitors, a piano was placed in the middle of the cafeteria. The lighting used was considered, in addition to the presence of some flowers to decorate the place.



THEN THERE ARE THE STAIRS AND THE ELEVATORS TO THE NEXT FLOORS



BATHR-O-O-MS

Then after the cafeteria, the men's, and women's bathrooms each have 3 bathrooms and four sinks.

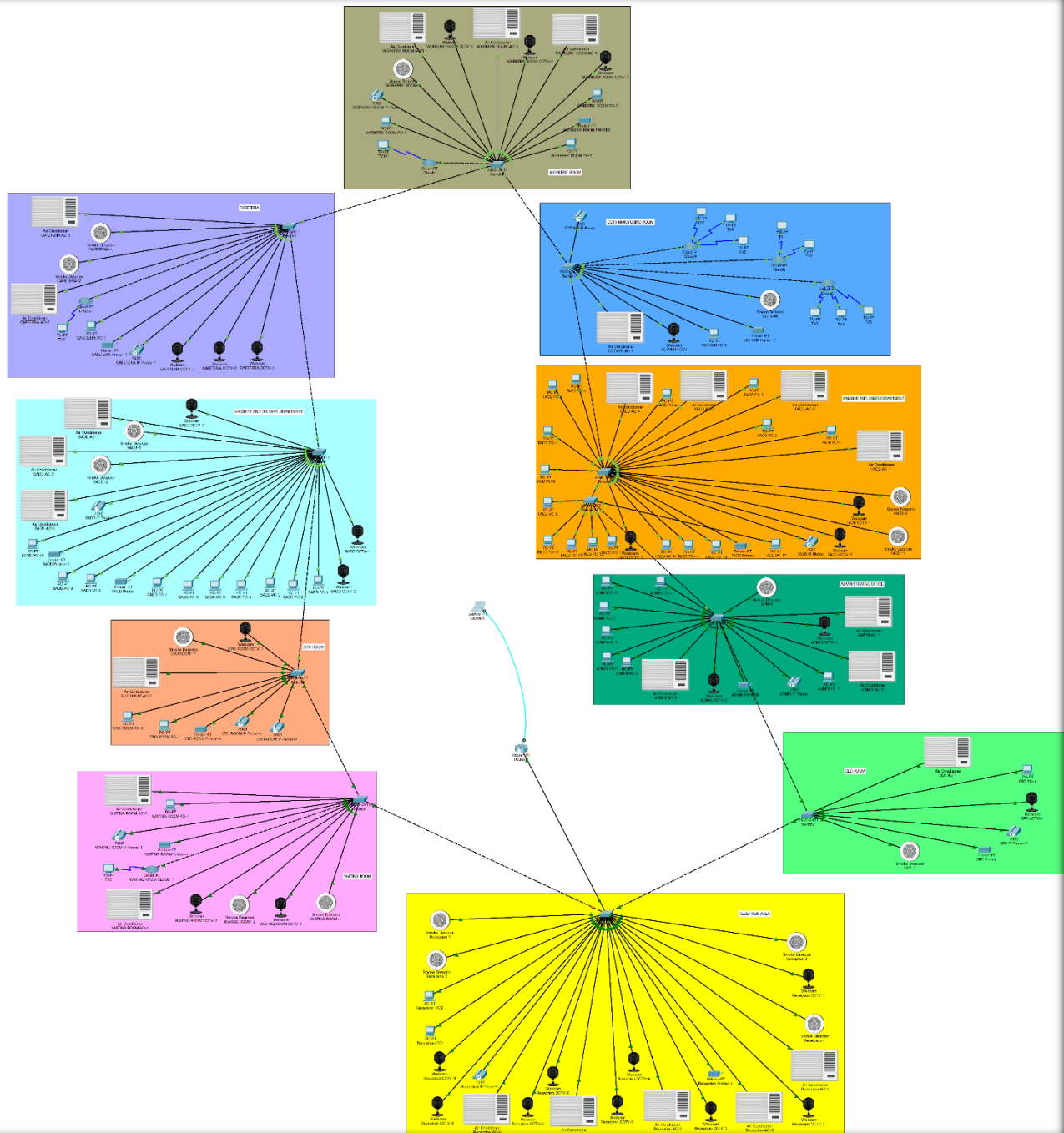


ADMINISTRATIVE OFFICE

Finally, we have an administrative office. Administrators primarily manage servers, services, and other internal applications, so they will need computers. The main office contains a private computer, a printer, and an internet phone. There are also two seats in front of the main office. There are 6 offices, each with a computer for each employee, with some flowers for decoration and some plants in the corners of the room to add an aesthetic appearance to the room. As with the rest of the rooms, there are surveillance cameras and air-conditioning

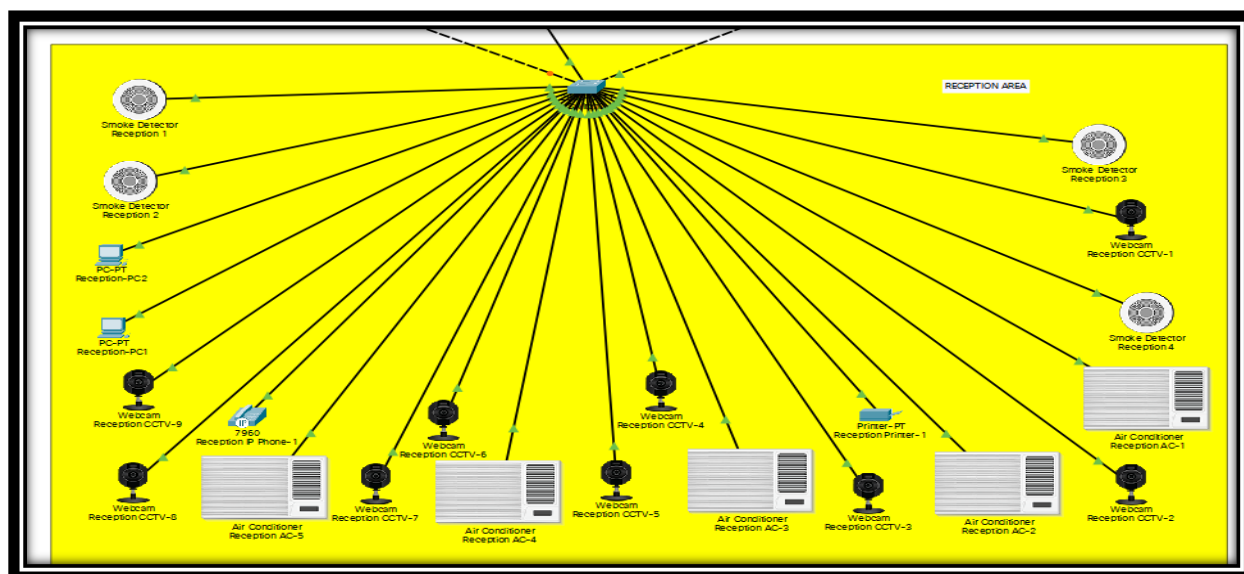


THE NETWORKS IN THE ROOMS



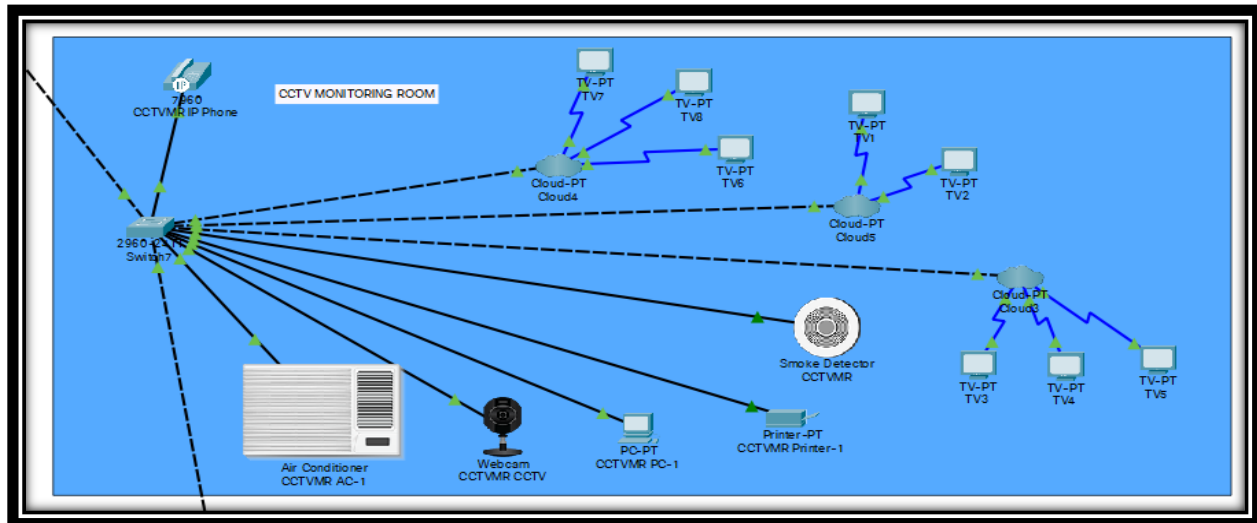
This is a physical topology of Penang Floor 1 with using Cisco Packet tracer

RECEPTION-AREA



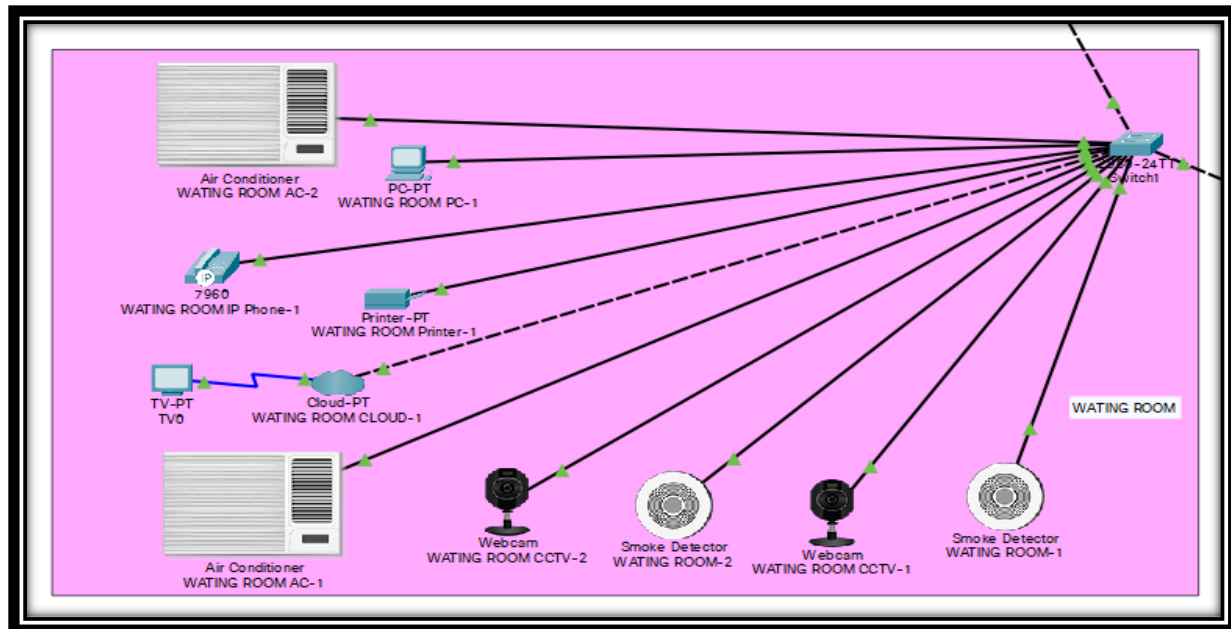
RECEPTION AREA			
Name of Hosts	Default Gateway	IPV4 ADDRESS	SUBNETMASK
Reception-PC1	192.168.10.1	192.168.10.2	255.255.255.0
Reception-PC2	192.168.10.1	192.168.10.3	255.255.255.0
Reception CCTV-1	192.168.10.1	192.168.10.20	255.255.255.0
Reception CCTV-2	192.168.10.1	192.168.10.17	255.255.255.0
Reception CCTV-3	192.168.10.1	192.168.10.14	255.255.255.0
Reception CCTV-4	192.168.10.1	192.168.10.12	255.255.255.0
Reception CCTV-5	192.168.10.1	192.168.10.11	255.255.255.0
Reception CCTV-6	192.168.10.1	192.168.10.9	255.255.255.0
Reception CCTV-7	192.168.10.1	192.168.10.8	255.255.255.0
Reception CCTV-8	192.168.10.1	192.168.10.7	255.255.255.0
Reception CCTV-9	192.168.10.1	192.168.10.4	255.255.255.0
Reception IP Phone-1	null	null	null
Reception AC-1	192.168.10.1	192.168.10.18	255.255.255.0
Reception AC-2	192.168.10.1	192.168.10.16	255.255.255.0
Reception AC-3	192.168.10.1	192.168.10.13	255.255.255.0
Reception AC-4	192.168.10.1	192.168.10.10	255.255.255.0
Reception AC-5	192.168.10.1	192.168.10.8	255.255.255.0
Reception Printer-1	192.168.10.1	192.168.10.15	255.255.255.0
Reception Smoke DETECTOR-1	192.168.10.1	192.168.10.5	255.255.255.0
Reception Smoke DETECTOR-2	192.168.10.1	192.168.10.6	255.255.255.0
Reception Smoke DETECTOR-3	192.168.10.1	192.168.10.21	255.255.255.0
Reception Smoke DETECTOR-4	192.168.10.1	192.168.10.19	255.255.255.0

CCTV MONITORING -ROOM



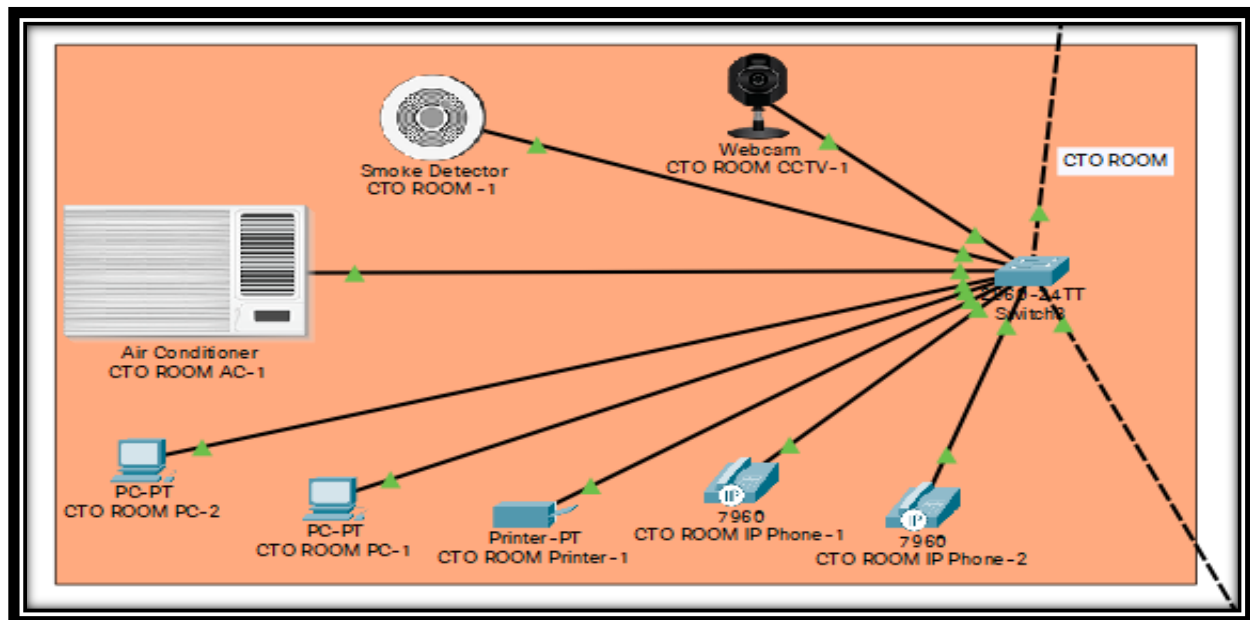
CCTV MONITORING ROOM			
Name of Hosts	Default Gateway	IPV4 ADDRESS	SUBNETMAS K
CCTVMR PC-1	192.168.10.1	192.168.10.77	255.255.255.0
CCTVMR Printer-1	192.168.10.1	192.168.10.78	255.255.255.0
CCTVMR CCTV	192.168.10.1	192.168.10.12 6	255.255.255.0
CCTVMR AC-1	192.168.10.1	192.168.10.76	255.255.255.0
CCTVMR IP Phone	null	null	null
CCTVMR SMOKE DETECTOR	192.168.10.1	192.168.10.79	255.255.255.0

WAITING -ROOM



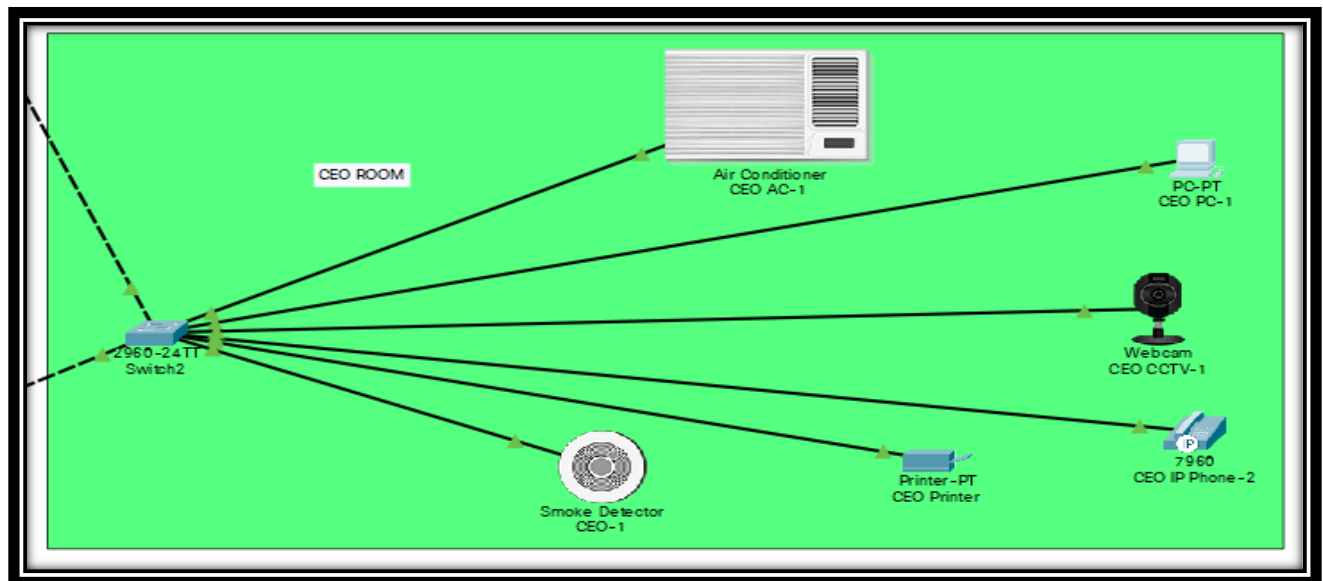
WATING ROOM			
Name of Hosts	Default Gateway	IPV4 ADDRESS	SUBNETMASK
WATING ROOM PC-1	192.168.10.1	192.168.10.29	255.255.255.0
WATING ROOM CCTV-1	192.168.10.1	192.168.10.23	255.255.255.0
WATING ROOM CCTV-2	192.168.10.1	192.168.10.26	255.255.255.0
WATING ROOM AC-1	192.168.10.1	192.168.10.27	255.255.255.0
WATING ROOM AC-2	192.168.10.1	192.168.10.30	255.255.255.0
WATING ROOM IP Phone-1	null	null	null
WATING ROOM Printer-1	192.168.10.1	192.168.10.28	255.255.255.0
WATING ROOM SMOKE DETECTOR-1	192.168.10.1	192.168.10.22	255.255.255.0
WATING ROOM SMOKE DETECTOR-2	192.168.10.1	192.168.10.25	255.255.255.0

CTO -ROOM



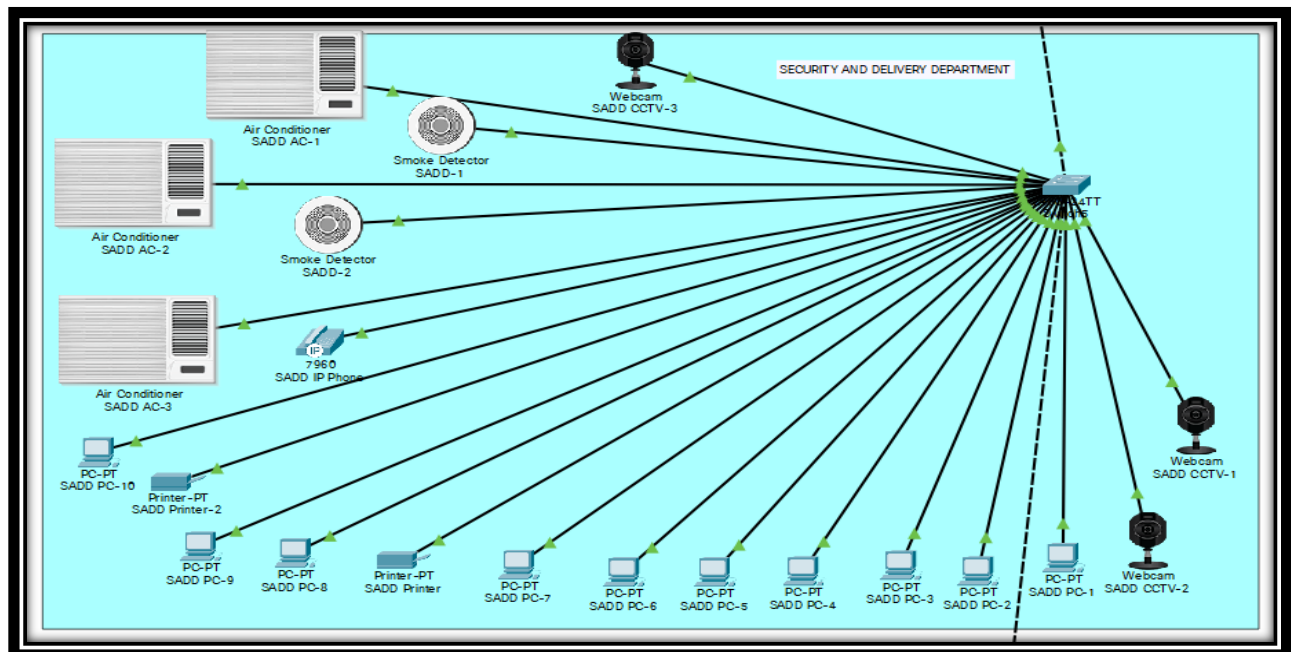
CTO ROOM			
Name of Hosts	Default Gateway	IPV ₄ ADDRESS	SUBNETMASK
CTO ROOM CCTV-1	192.168.10.1	192.168.10.36	255.255.255.0
CTO ROOM AC-1	192.168.10.1	192.168.10.34	255.255.255.0
CTO ROOM PC-1	192.168.10.1	192.168.10.32	255.255.255.0
CTO ROOM PC-2	192.168.10.1	192.168.10.33	255.255.255.0
CTO ROOM Printer-1	192.168.10.1	192.168.10.31	255.255.255.0
CTO ROOM IP Phone-1	null	null	null
CTO ROOM IP Phone-2	null	null	null
CTO ROOM SMOKE DETECTOR-1	192.168.10.1	192.168.10.35	255.255.255.0

CEO -ROOM



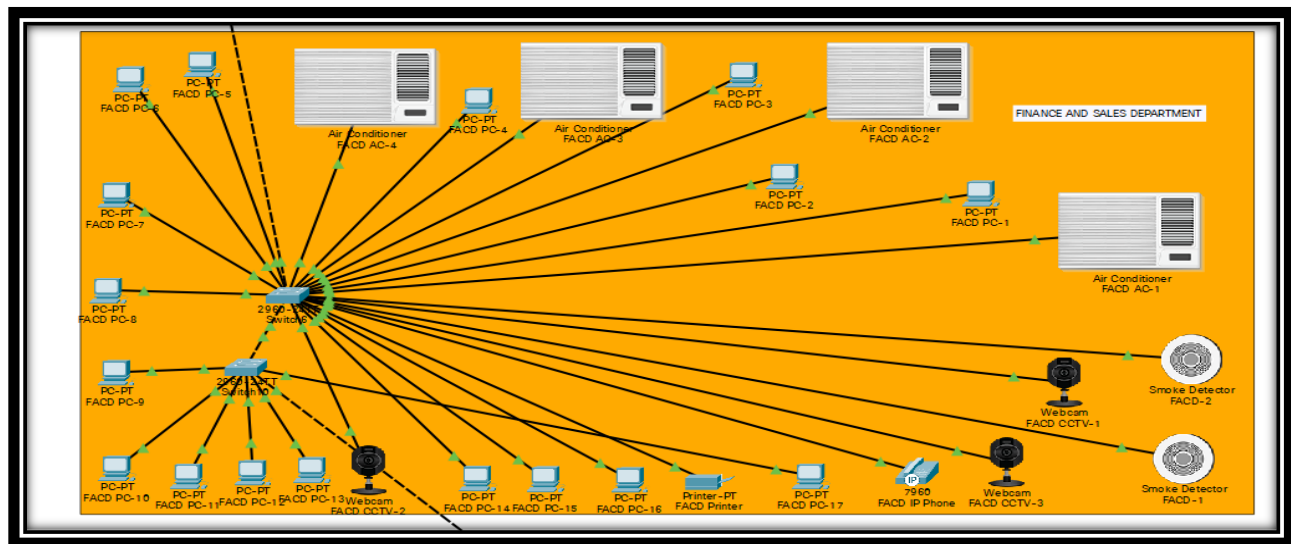
CEO ROOM			
Name of Hosts	Default Gateway	IPV ₄ ADDRESS	SUBNETMASK
CEO PC-1	192.168.10.1	192.168.10.122	255.255.255.0
CEO CCTV-1	192.168.10.1	192.168.10.123	255.255.255.0
CEO IP Phone-2	null	null	null
CEO Printer	192.168.10.1	192.168.10.124	255.255.255.0
CEO AC-1	192.168.10.1	192.168.10.121	255.255.255.0
CEO SMOKE DETECTOR-1	192.168.10.1	192.168.10.125	255.255.255.0

SECURITY AND DELIVERY DEPARTMENT



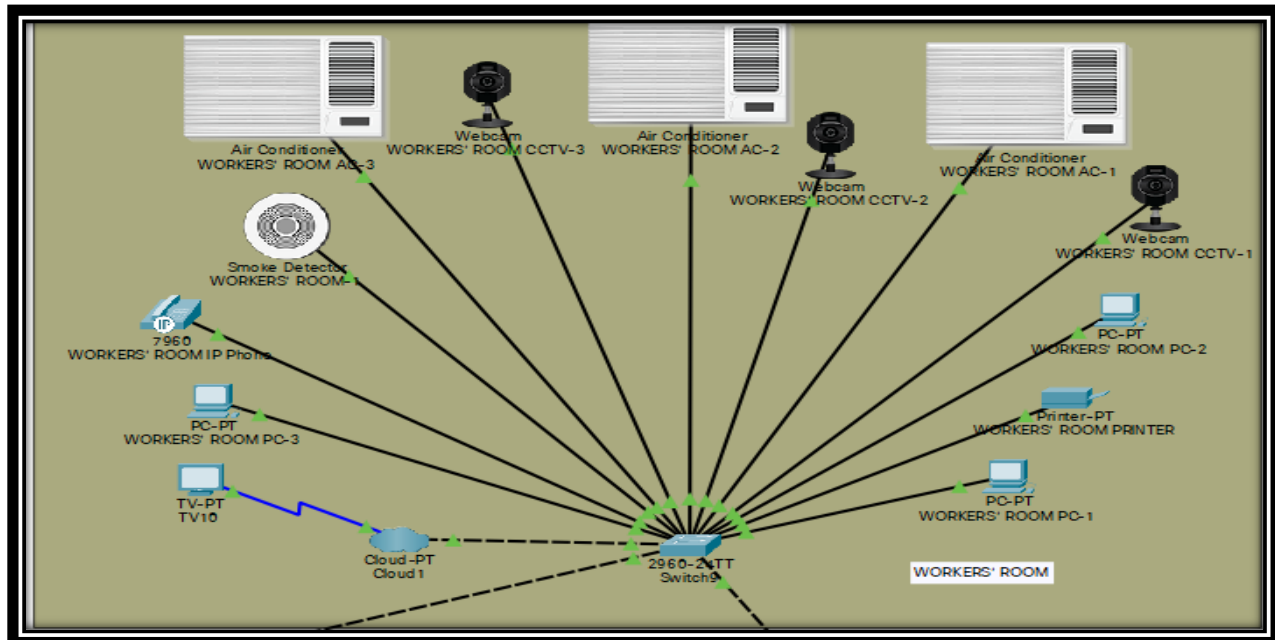
SECURITY AND DELIVERY DEPARTMENT			
Name of Hosts	Default Gateway	IPV4 ADDRESS	SUBNETMASK
SADD CCTV-1	192.168.10.1	192.168.10.37	255.255.255.0
SADD CCTV-2	192.168.10.1	192.168.10.38	255.255.255.0
SADD CCTV-3	192.168.10.1	192.168.10.56	255.255.255.0
SADD PC-1	192.168.10.1	192.168.10.39	255.255.255.0
SADD PC-2	192.168.10.1	192.168.10.40	255.255.255.0
SADD PC-3	192.168.10.1	192.168.10.41	255.255.255.0
SADD PC-4	192.168.10.1	192.168.10.42	255.255.255.0
SADD PC-5	192.168.10.1	192.168.10.43	255.255.255.0
SADD PC-6	192.168.10.1	192.168.10.44	255.255.255.0
SADD PC-7	192.168.10.1	192.168.10.45	255.255.255.0
SADD PC-8	192.168.10.1	192.168.10.47	255.255.255.0
SADD PC-9	192.168.10.1	192.168.10.48	255.255.255.0
SADD PC-10	192.168.10.1	192.168.10.50	255.255.255.0
SADD Printer-1	192.168.10.1	192.168.10.46	255.255.255.0
SADD Printer-2	192.168.10.1	192.168.10.49	255.255.255.0
SADD AC-1	192.168.10.1	192.168.10.55	255.255.255.0
SADD AC-2	192.168.10.1	192.168.10.53	255.255.255.0
SADD AC-3	192.168.10.1	192.168.10.51	255.255.255.0
SADD SMOKE DETECTOR-1	192.168.10.1	192.168.10.54	255.255.255.0
SADD SMOKE DETECTOR-2	192.168.10.1	192.168.10.52	255.255.255.0
SADD IP Phone	null	null	null

FINANCE AND SALES DEPARTMENT



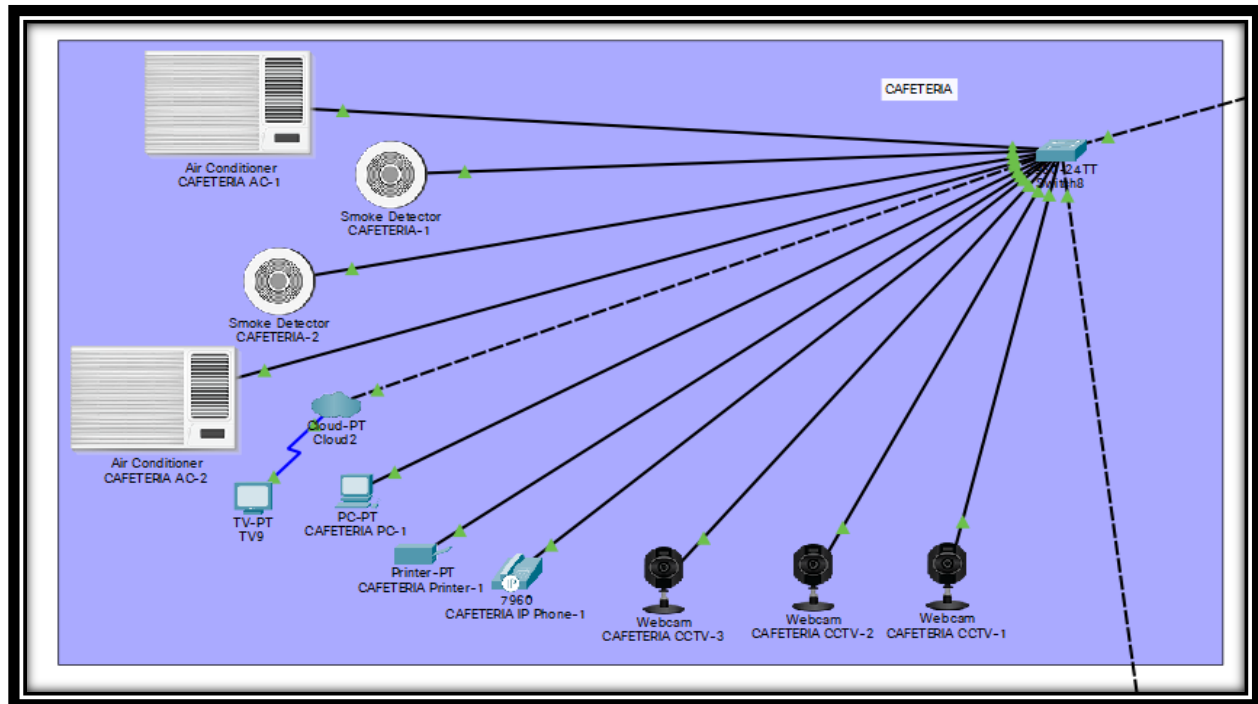
FINANCE AND SALES DEPARTMENT			
Name of Hosts	Default Gateway	IPv4 ADDRESS	SUBNETMASK
FACD CCTV-1	192.168.10.1	192.168.10.93	255.255.255.0
FACD CCTV-2	192.168.10.1	192.168.10.101	255.255.255.0
FACD CCTV-3	192.168.10.1	192.168.10.95	255.255.255.0
FACD AC-1	192.168.10.1	192.168.10.91	255.255.255.0
FACD AC-2	192.168.10.1	192.168.10.88	255.255.255.0
FACD AC-3	192.168.10.1	192.168.10.86	255.255.255.0
FACD AC-4	192.168.10.1	192.168.10.84	255.255.255.0
FACD Printer	192.168.10.1	192.168.10.96	255.255.255.0
FACD IP Phone	null	null	null
FACD PC- 1	192.168.10.1	192.168.10.90	255.255.255.0
FACD PC- 2	192.168.10.1	192.168.10.89	255.255.255.0
FACD PC- 3	192.168.10.1	192.168.10.87	255.255.255.0
FACD PC- 4	192.168.10.1	192.168.10.85	255.255.255.0
FACD PC- 5	192.168.10.1	192.168.10.83	255.255.255.0
FACD PC- 6	192.168.10.1	192.168.10.82	255.255.255.0
FACD PC- 7	192.168.10.1	192.168.10.81	255.255.255.0
FACD PC- 8	192.168.10.1	192.168.10.80	255.255.255.0
FACD PC- 9	192.168.10.1	192.168.10.106	255.255.255.0
FACD PC- 10	192.168.10.1	192.168.10.105	255.255.255.0
FACD PC- 11	192.168.10.1	192.168.10.104	255.255.255.0
FACD PC- 12	192.168.10.1	192.168.10.103	255.255.255.0
FACD PC- 13	192.168.10.1	192.168.10.102	255.255.255.0
FACD PC- 14	192.168.10.1	192.168.10.100	255.255.255.0
FACD PC- 15	192.168.10.1	192.168.10.98	255.255.255.0
FACD PC- 16	192.168.10.1	192.168.10.97	255.255.255.0
FACD PC- 17	192.168.10.1	192.168.10.99	255.255.255.0
FACD SMOKE DETECTOR -1	192.168.10.1	192.168.10.94	255.255.255.0
FACD SMOKE DETECTOR -2	192.168.10.1	192.168.10.92	255.255.255.0

WORKERS'-ROOM



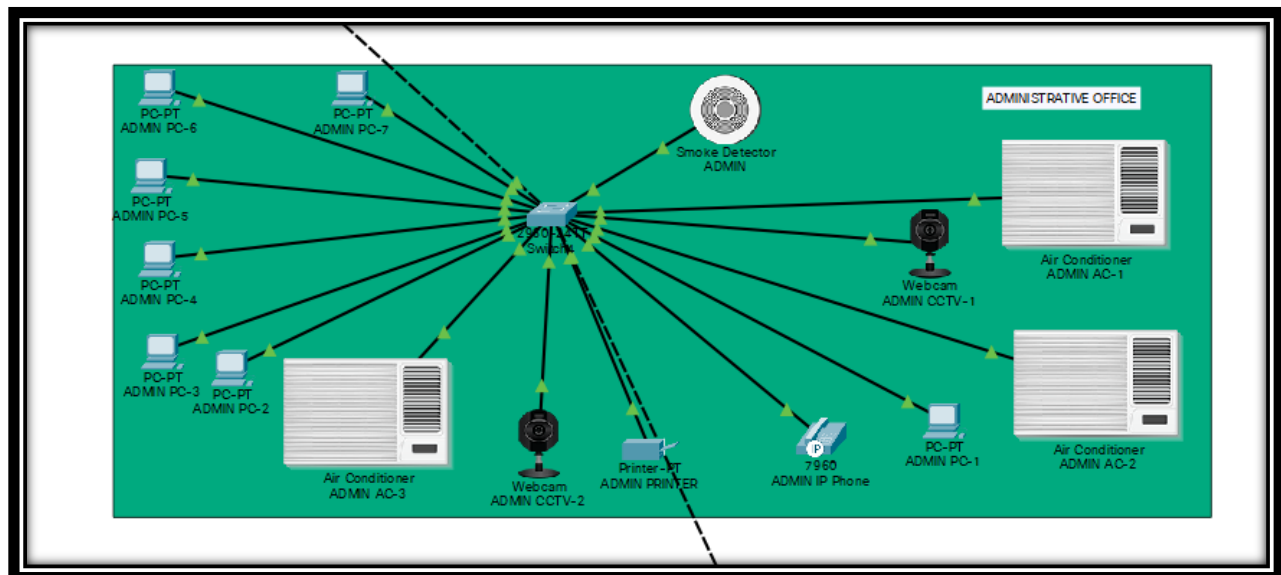
WORKERS' ROOM			
Name of Hosts	Default Gateway	IPV ₄ ADDRESS	SUBNETMASK
WORKERS' ROOM PC-1	192.168.10.1	192.168.10.75	255.255.255.0
WORKERS' ROOM PC-2	192.168.10.1	192.168.10.73	255.255.255.0
WORKERS' ROOM PC-3	192.168.10.1	192.168.10.66	255.255.255.0
WORKERS' ROOM PRINTER	192.168.10.1	192.168.10.74	255.255.255.0
WORKERS' ROOM IP Phone	null	null	null
WORKERS' ROOM AC-1	192.168.10.1	192.168.10.71	255.255.255.0
WORKERS' ROOM AC-2	192.168.10.1	192.168.10.130	255.255.255.0
WORKERS' ROOM AC-3	192.168.10.1	192.168.10.68	255.255.255.0
WORKERS' ROOM CCTV-1	192.168.10.1	192.168.10.72	255.255.255.0
WORKERS' ROOM CCTV-2	192.168.10.1	192.168.10.70	255.255.255.0
WORKERS' ROOM CCTV-3	192.168.10.1	192.168.10.69	255.255.255.0
WORKERS' ROOM SMOKE DETECTOR-1	192.168.10.1	192.168.10.67	255.255.255.0

CAFETERIA



CAFETERIA			
Name of Hosts	Default Gateway	IPV4 ADDRESS	SUBNETMASK
CAFETERIA CCTV-1	192.168.10.1	192.168.10.58	255.255.255.0
CAFETERIA CCTV-2	192.168.10.1	192.168.10.59	255.255.255.0
CAFETERIA CCTV-3	192.168.10.1	192.168.10.60	255.255.255.0
CAFETERIA Printer-1	192.168.10.1	192.168.10.61	255.255.255.0
CAFETERIA PC-1	192.168.10.1	192.168.10.62	255.255.255.0
CAFETERIA AC-1	192.168.10.1	192.168.10.65	255.255.255.0
CAFETERIA AC-2	192.168.10.1	192.168.10.63	255.255.255.0
CAFETERIA SMOKE DETECTOR-1	192.168.10.1	192.168.10.57	255.255.255.0
CAFETERIA SMOKE DETECTOR-2	192.168.10.1	192.168.10.64	255.255.255.0
CAFETERIA IP Phone-1	null	null	null

ADMINISTRATIVE OFFICE

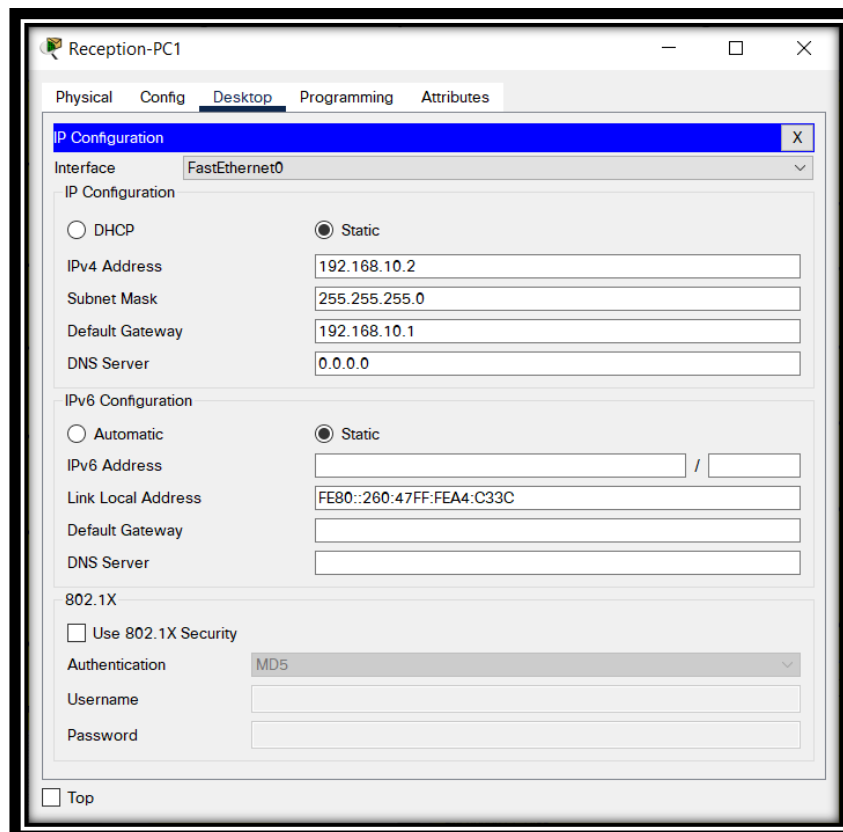


ADMINISTRATIVE OFFICE			
Name of Hosts	Default Gateway	IPV4 ADDRESS	SUBNETMASK
ADMIN PC-1	192.168.10.1	192.168.10.118	255.255.255.0
ADMIN PC-2	192.168.10.1	192.168.10.108	255.255.255.0
ADMIN PC-3	192.168.10.1	192.168.10.109	255.255.255.0
ADMIN PC-4	192.168.10.1	192.168.10.110	255.255.255.0
ADMIN PC-5	192.168.10.1	192.168.10.111	255.255.255.0
ADMIN PC-6	192.168.10.1	192.168.10.112	255.255.255.0
ADMIN PC-7	192.168.10.1	192.168.10.113	255.255.255.0
ADMIN AC-1	192.168.10.1	192.168.10.115	255.255.255.0
ADMIN AC-2	192.168.10.1	192.168.10.117	255.255.255.0
ADMIN AC-3	192.168.10.1	192.168.10.107	255.255.255.0
ADMIN PRINTER	192.168.10.1	192.168.10.119	255.255.255.0
ADMIN CCTV-1	192.168.10.1	192.168.10.116	255.255.255.0
ADMIN CCTV-2	192.168.10.1	192.168.10.120	255.255.255.0
ADMIN SMOKE DETECTOR -1	192.168.10.1	192.168.10.114	255.255.255.0
ADMIN IP Phone	null	null	null

PENANG FLOOR 1								
AREA	NUMBER OF HOST USED	unus ed hosts	Tota l host s	NETW ORD ID	DEFAUL T GATEW AY	SUBN ET MASK	VALID RANGE OF HOST IP ADDRESS	BROA DCAST IP
Reception area	24	103	254	192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.1 - 192.168.10.24	255.255.255
waiting room	10			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.29 - 192.168.10.30	255.255.255
CEO room	6			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.122 - 192.168.10.125	255.255.255
CTO room	8			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.31 - 192.168.10.36	255.255.255
Administrative office	15			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.108 - 192.168.10.120	255.255.255
Security and Delivery departments	21			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.80 - 192.168.10.106	255.255.255
Finance and Sales	28			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.80 - 192.168.10.101	255.255.255
CCTV MONITORING ROOM	14			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.77 - 192.168.10.79	255.255.255
Cafeteria	13			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.58 - 192.168.10.65	255.255.255
Workers room	12			192.168.10.0/24	192.168.10.1	255.255.255.0	192.168.10.66 - 192.168.10.74	255.255.255
TOTAL HOSTS	151							

On the primary floor of Penang Working, there are ten switches that associates with end gadgets. The switches are utilizing 2960 switches of Cisco Parcel Tracer and utilizing copper get over link interfaces all switches. Ten of the switches address to various region in this floor. There are 151 hosts remember utilized host and saved host for this floor.

Thus, the IP address with prefix/24 is utilized. The justification behind utilizing this IP address is on the grounds that it can give 254 hosts utilized. As per the IP tending to table over, the Network ID that utilizing in this floor is {192.168.10.0/24} with a subnet veil of{255.255.255.0} and the default Gateway is {192.168.10.1}

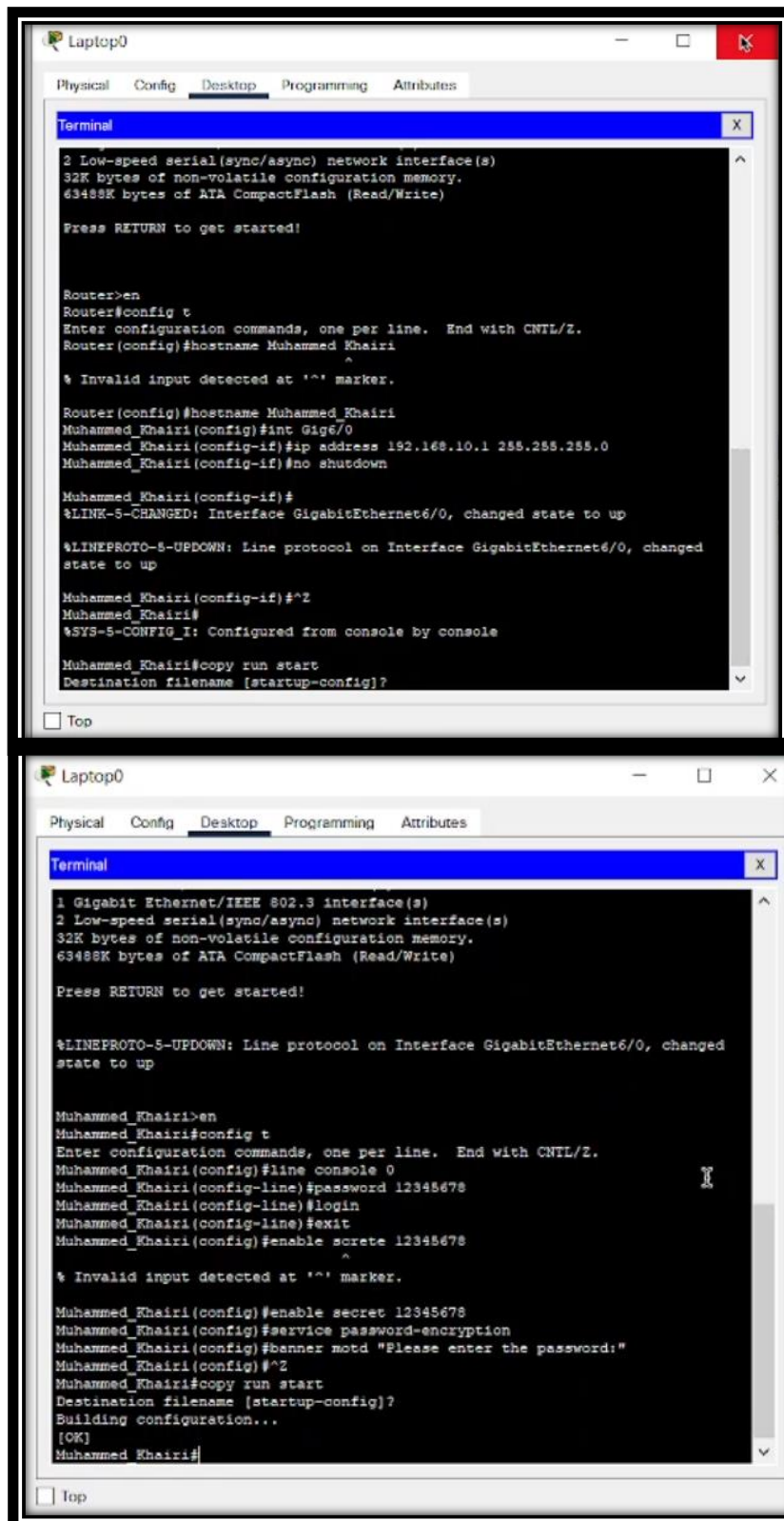


As indicated by Graph over, each host in this floor has been given an exceptional IP address so we can keep away from IP struggle. Other than that, subnet cover and default door likewise be given to each host in this floor.

Each switch in this floor is completely arranged. Every one of the switches have been given a hostname and a secret word, which just know by administrator. This is the screen capture of each switch in the floor.



The switch in this floor is completely designed and has given Ip address 192.168.10.1 and subnet veil 255.255.255.0 and have been given a host name and a secret key, this is the screen shot.



2 REFERENCES

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MORE REFERENCE

*THE PROGRAM USED
IN DESIGNING IS
COOHOM*

*THE PROGRAM USED
IN NETWORKS IS
PACKT TRACER*

WHAT I HAVE LEARNED WITH THIS ASIGHMENT

- How TO DEAL WITH PACKT TRACER
- HOW TO DESIGN IN 3D AND 2D
- THE DIFFERENCE BETWEEN WIRES IN THE NETWORKS
- HOW TO CONFIGURE A ROUTER AND A PASSWORD WITH TERMINAL
- HOW TO CONFIGURE A SWITCH AND A PASSWORD WITH TERMINAL

- WHAT IS MEANT BY IP AND SUBNETMASK
- THE PORTS OF THE DEVICES LIKE ETHERNET ETC
- WHAT IS MEANT BY DEFAULT GATE WAY
- WHAT IS MEANT BY HOST AND CLINT?
- THE IOT DEVICES
- IP ADDRESSING
- IP ROUTING

IMPORTANT NOTE:

IT IS VERY HELPFUL TO WATCH THE RECORDING MORE THAN ONCE CAUSE ITS WAY BETTER THAN WATCHING YOUTUBE VIDEOS SPECIFICALLY WHEN WE HAVE A GREAT LECTURER