

SECOND PROGRESS REPORT OF

Campus Architecture

Submitted in partial fulfilment of the requirements for the award of degree of
BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING



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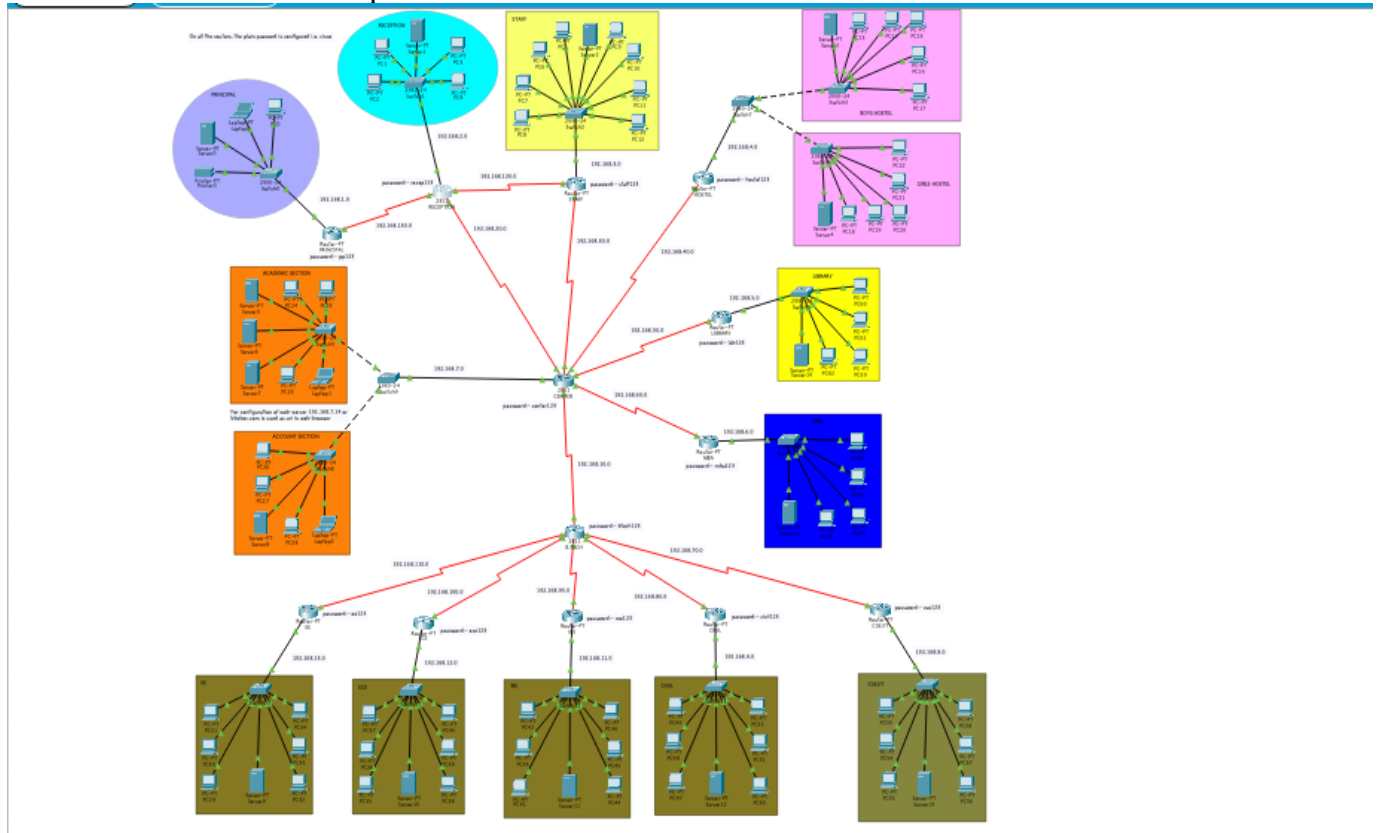
5 October 2022

IMPLEMENTATION

This is the project of campus architecture. In this project we have connected different department using router. We have created different departments I.e. Reception, Principal, Hostels(boys and girls), Staffs, Library, MBA, Academic section and Account section and connected the departments with the help of router.

There is a central router from which we have connected different engineering department I.e. CSE/IT, ME, ECE, Civil, EE in common router. There are different numbers of system of each department and we will defined different user and for each user we will used different email configure. We have created different password for each department and even configure the password for different routers. When we want to check the configure of router firstly we will select router then will write command Router, then will write enable and give password which has been assigned for that router and after that to check configuration we will write show run command and from this we will check all the router's configuration. We have connected all the router through eigrp. We have put a access limit in hostel department which will help to deny the whole hostel's communication from another departments for security purpose. So we have done 100% of this project.

This is the overview of Campus Architecture

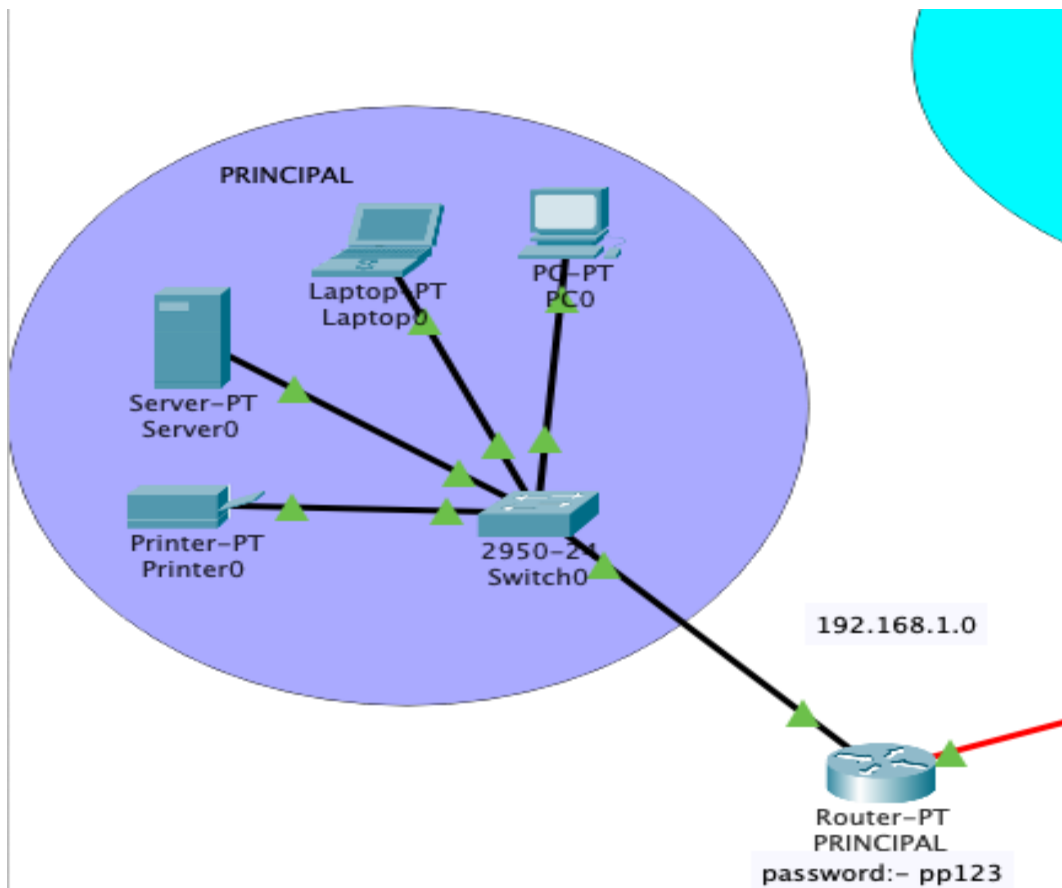


OUTPUT VALIDATION AND COMPARISON

There are total 8 sections which is Principal, Reception, Staff, Hostel, MBA department, Library, B.tech and two another section which connected from the common switch which is Academic section and Account section. In Hostel section we have divide it in two parts boys hostel and girls hostel. In hostel section, We have put a access limit which will help to deny the whole hostel's communication from another departments for security purpose. We have connected all the departments with common router which is center. In b.tech section, there are total 5 departments I.e. CSE/IT, ME, ECE, Civil, EE. We have given IP address of all the sections. On all the routers, the plain password is configured i.e. cisco. We have given all the departments and sections to individual passwords. For configuration of web-server 192.168.7.14 or bbsbec.com is used as uri in web browser.

The sections and departments with IP address and password are as follow: -

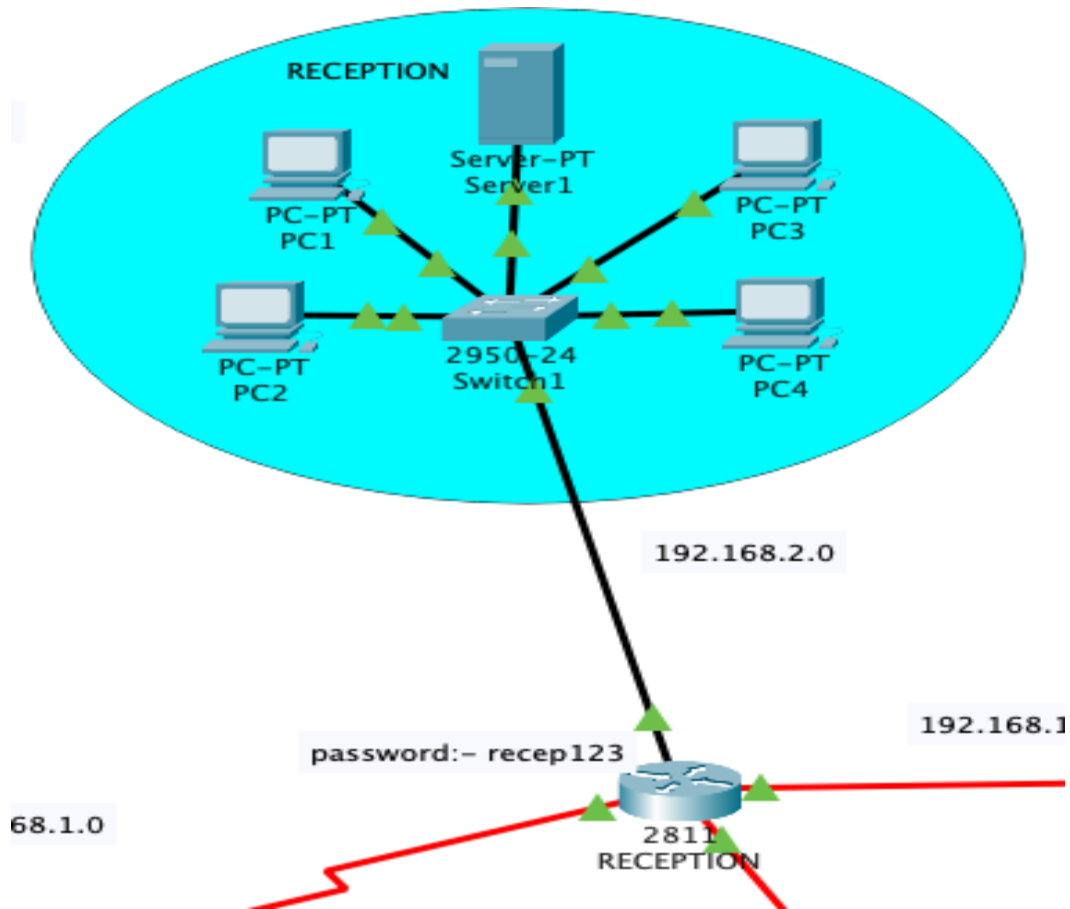
1. PRINCIPAL SECTION :-



IP address: - 192.168.1.0

Password: - pp123

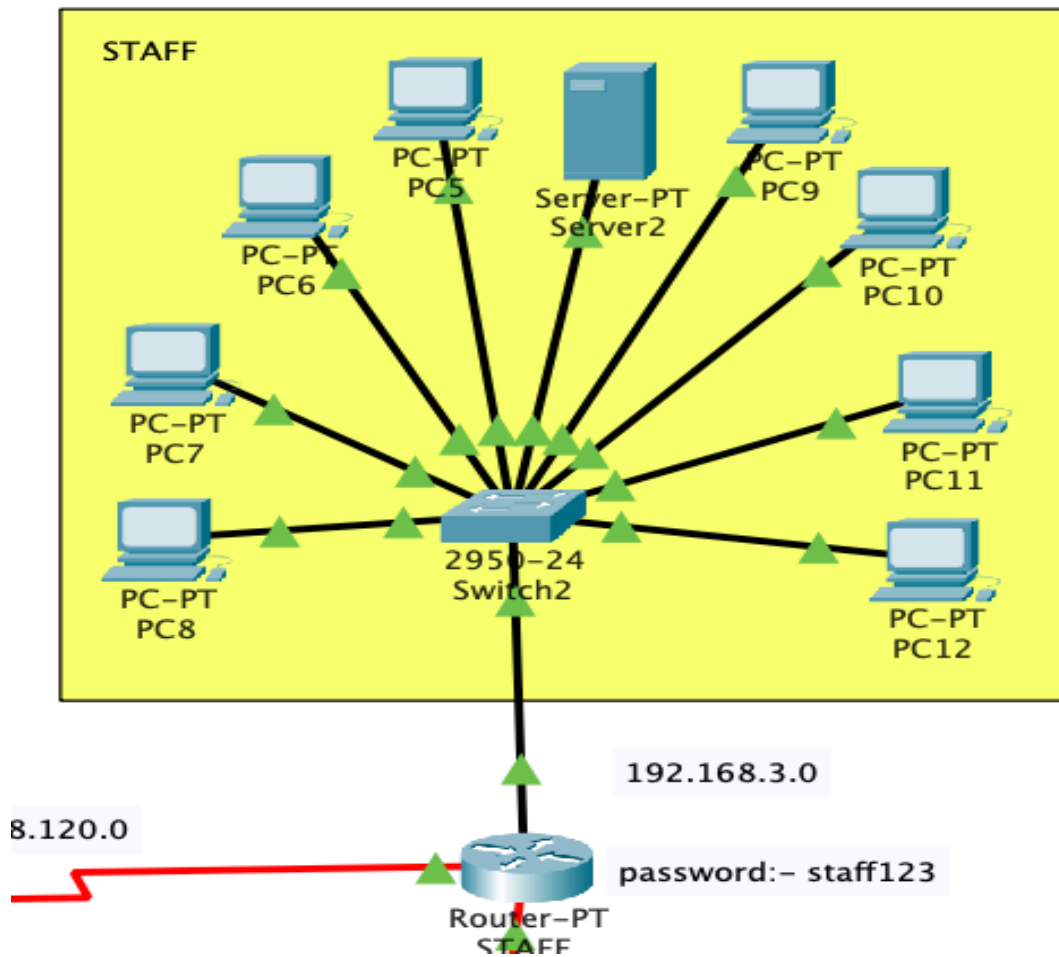
2. RECEPTION SECTION: -



IP address: - 192.168.2.0

Password: - recep123

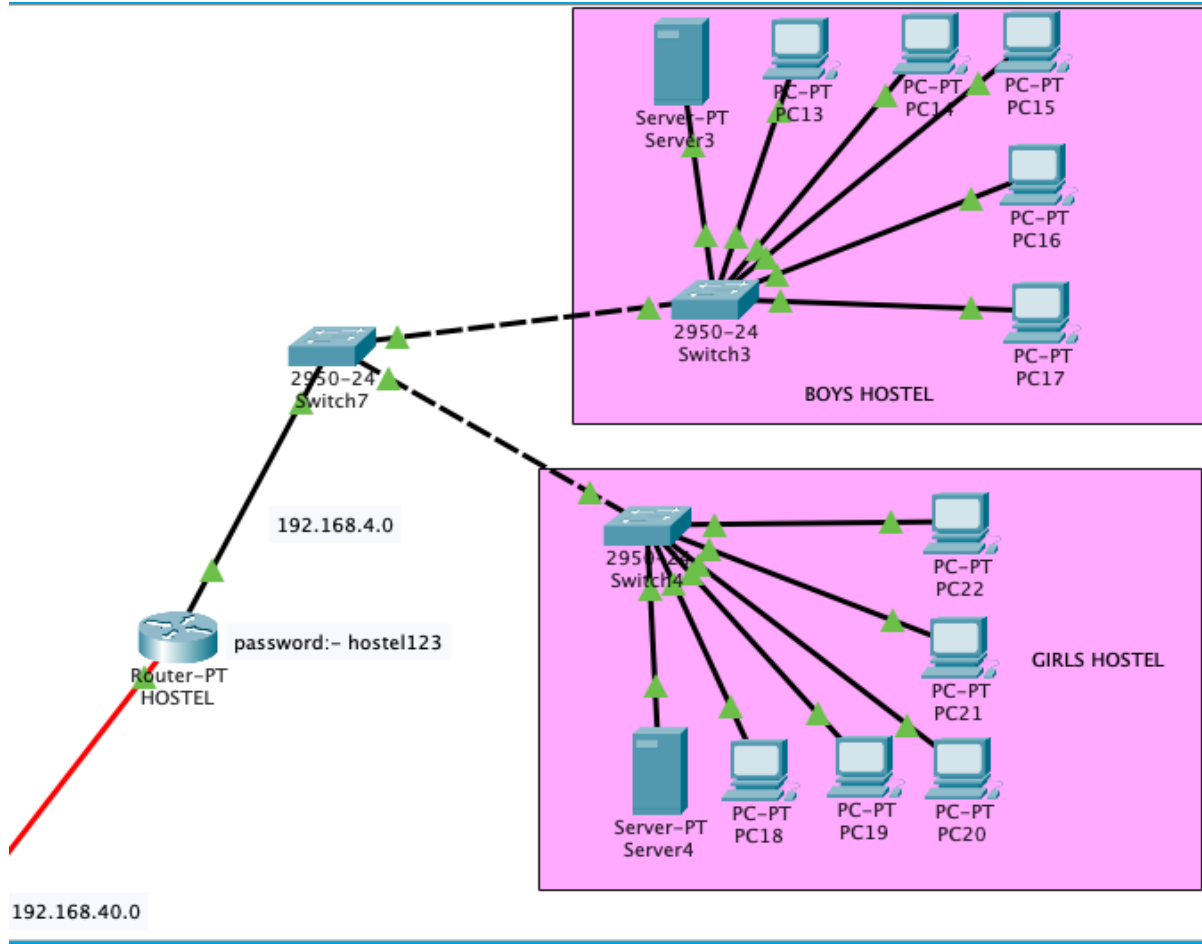
3. STAFF SECTION: -



IP address:- 192.168.3.0

Password: - staff123

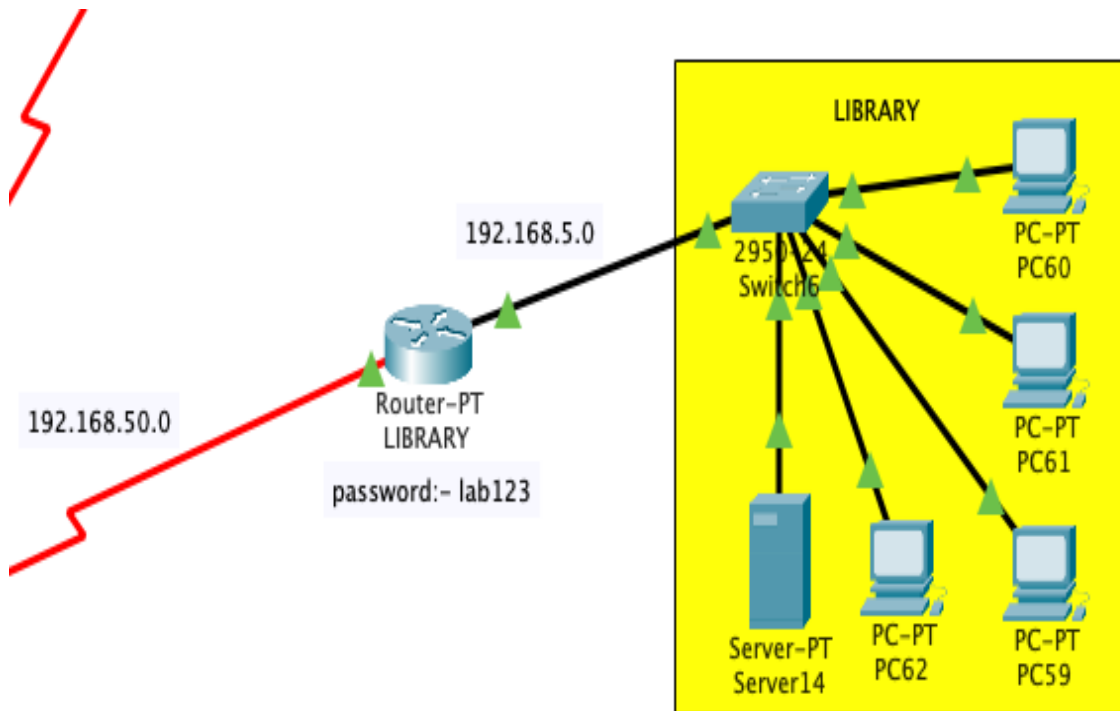
4. HOSTEL SECTION: -



IP address:- 192.168.4.0

Password: -hostel123

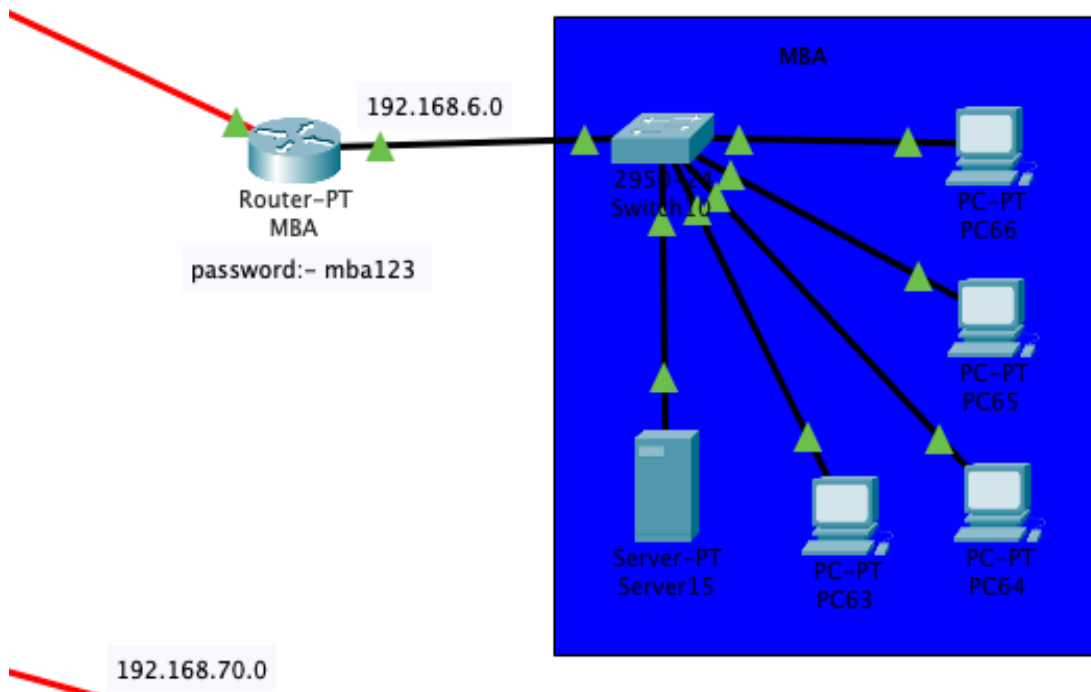
5. LIBRARY SECTION: -



IP address:- 192.168.5.0

Password:- lab123

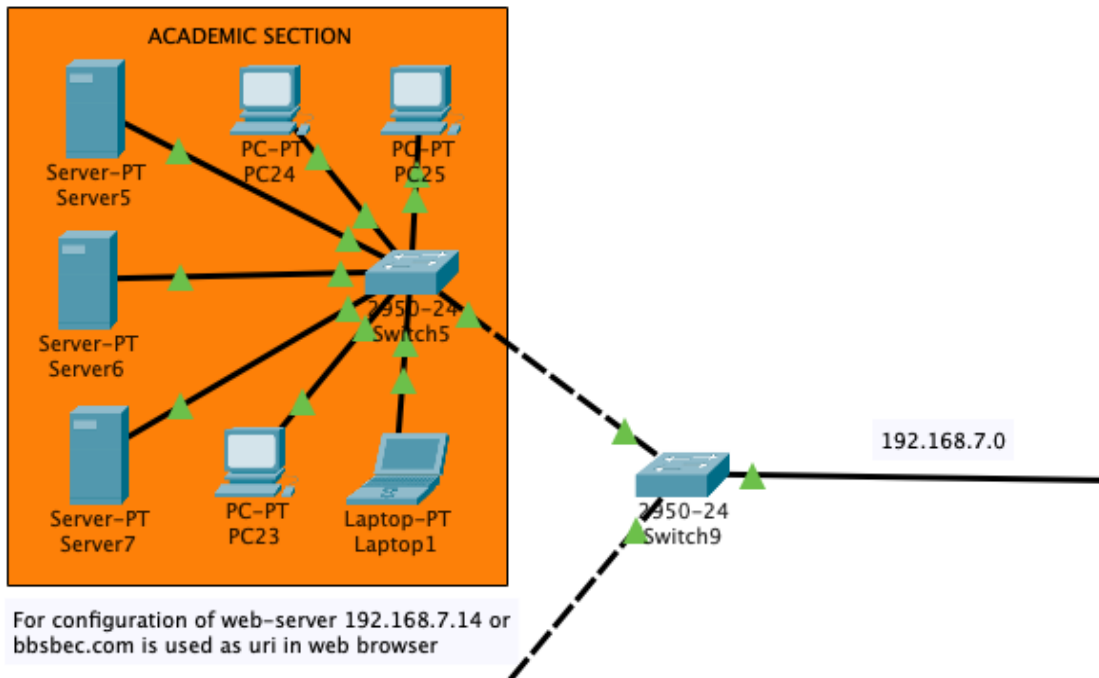
6. MBA DEPARTMENT: -



IP address: - 192.168.6.0

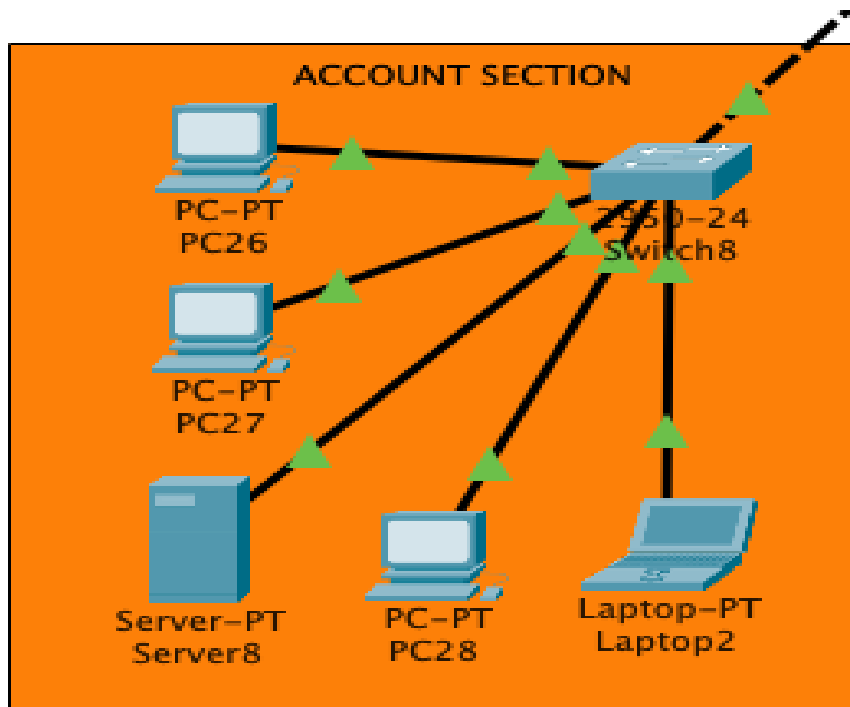
Password: - mba123

7. ACADEMIC SECTION: -

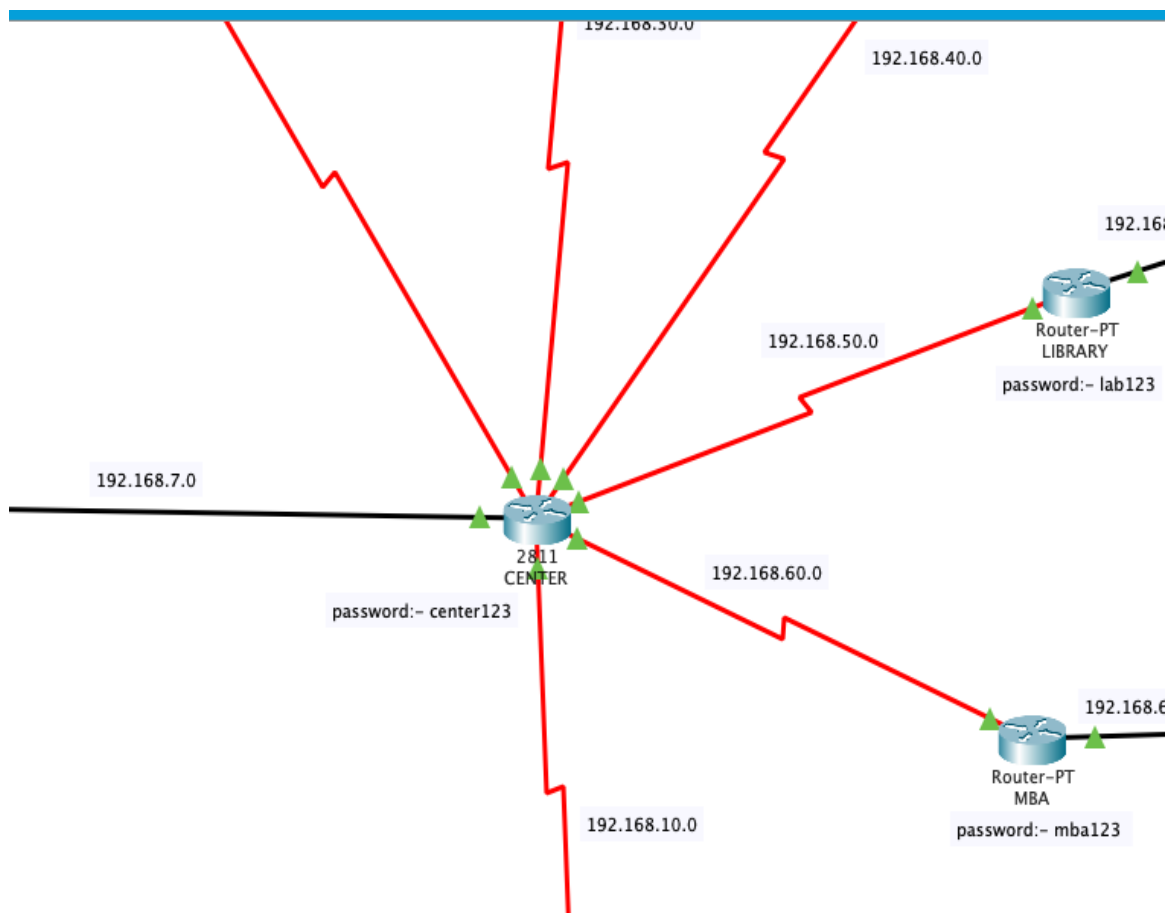


IP address: - 192.168.7.0

8. ACCOUNT SECTION: -



IP address: - 192.168.7.0

9. CENTER ROUTER: -

IP address with Reception: - 192.168.20.0

IP address with Staff: - 192.168.30.0

IP address with Hostel: - 192.168.40.0

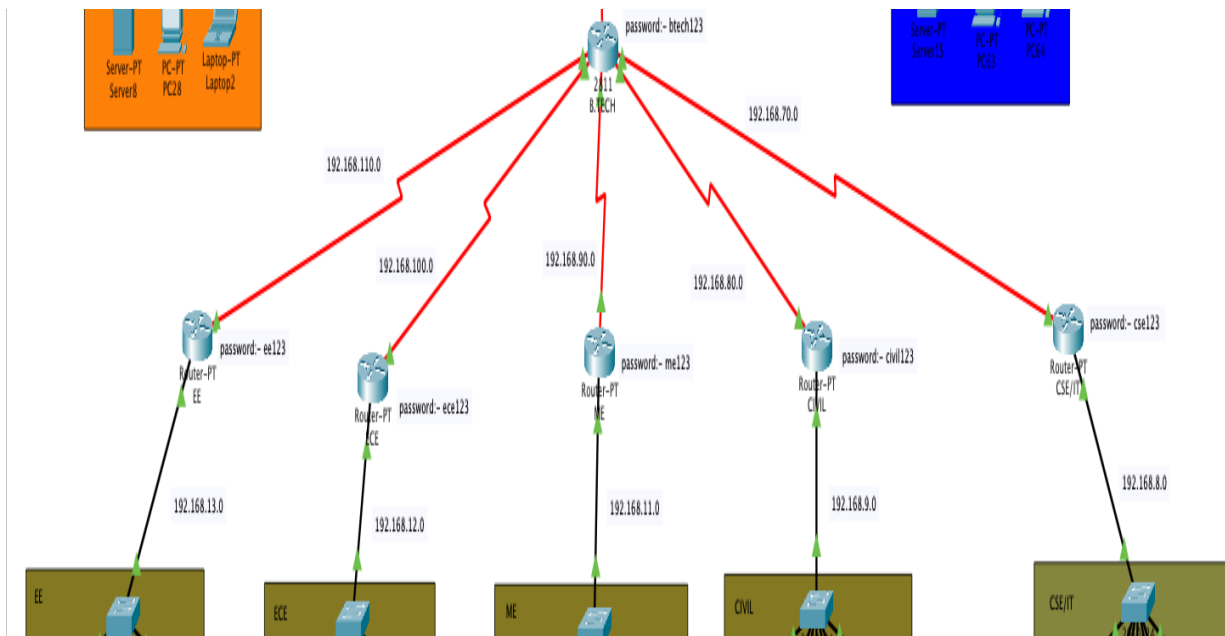
IP address with Library: - 192.168.50.0

IP address with MBA: - 192.168.60.0

IP address with B.tech: - 192.168.10.0

Password: - center123

10. B.tech DEPARTMENT: -



IP address with CSE/IT department: - 192.168.70.0

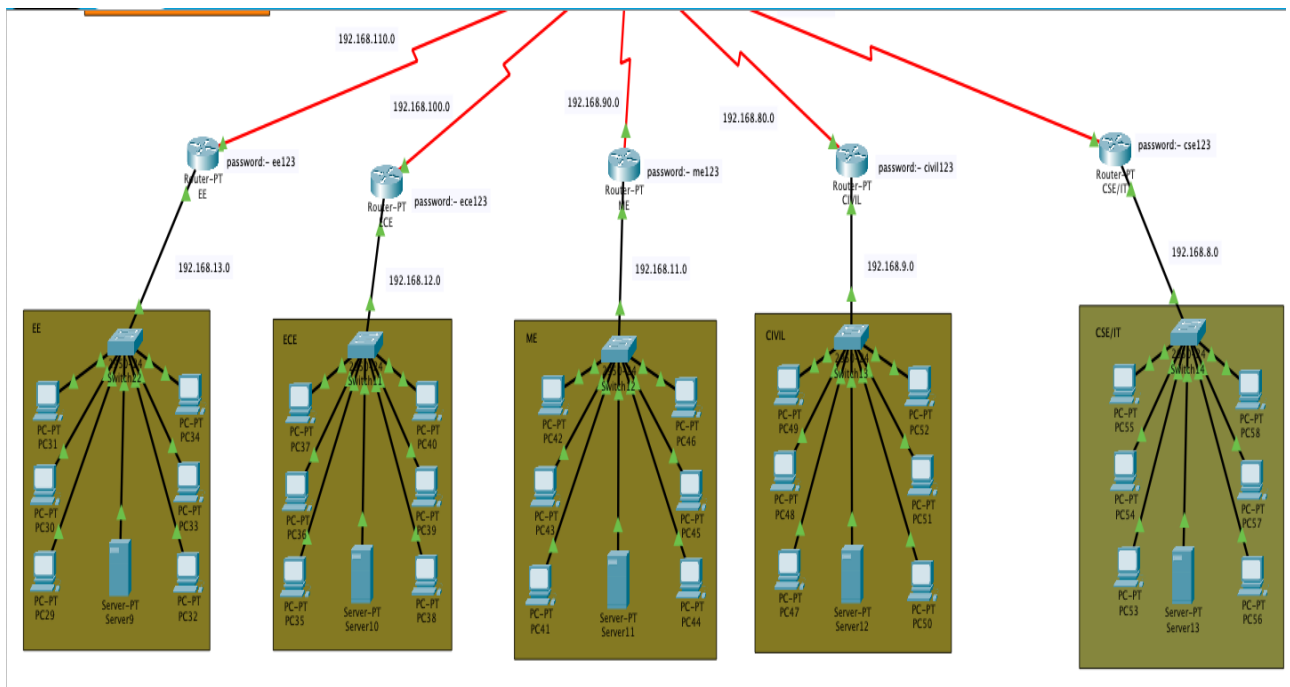
IP address with Civil department: - 192.168.80.0

IP address with ME department: - 192.168.90.0

IP address with ECE department: - 192.168.100.0

IP address with EE department: - 192.168.110.0

11. ENGINEERING DEPARTMENTS: -



IP address of CSE/IT:- 192.168.8.0

Password of CSE/IT: - cse123

IP address of Civil: -192.168.9.0

Password of Civil: - civil123

IP address of ME: - 192.168.11.0

Password of ME: - me123

IP address of ECE: - 192.168.12.0

Password of ECE: - ece123

IP address of EE: - 192.168.13.0

Password of EE: - ee123

TEAM WORK

We total 2 members are doing this project Campus architecture. We both have some knowledge of Configuration, architecture designing, security configuration, switch connections etc. But we have divided our work and done our work properly.

So team member wise distribution of work is as follows:-

- RAVI ANAND (Architecture designing, switch connections, router configuration)
- SHOURYA TAYAL (Security configuration, router connection, router-router configuration)