

CN INNOVATIVE

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Roll No: 21BCE172, 21BCE246

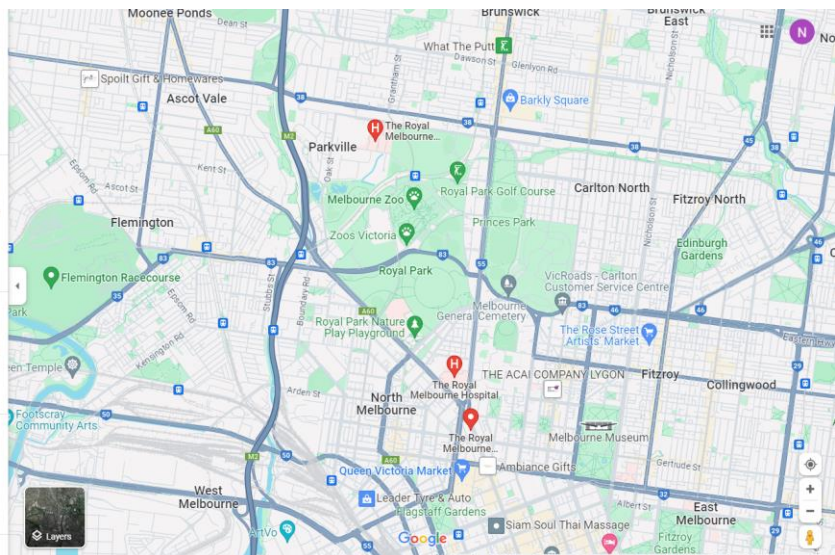
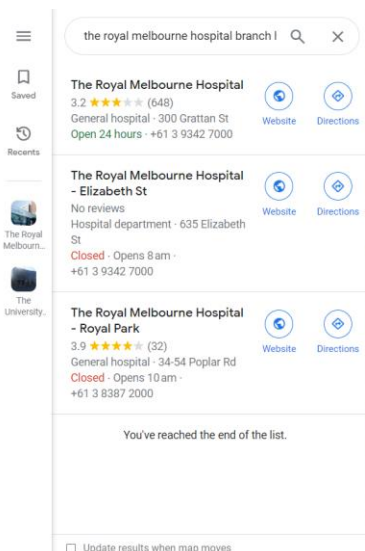
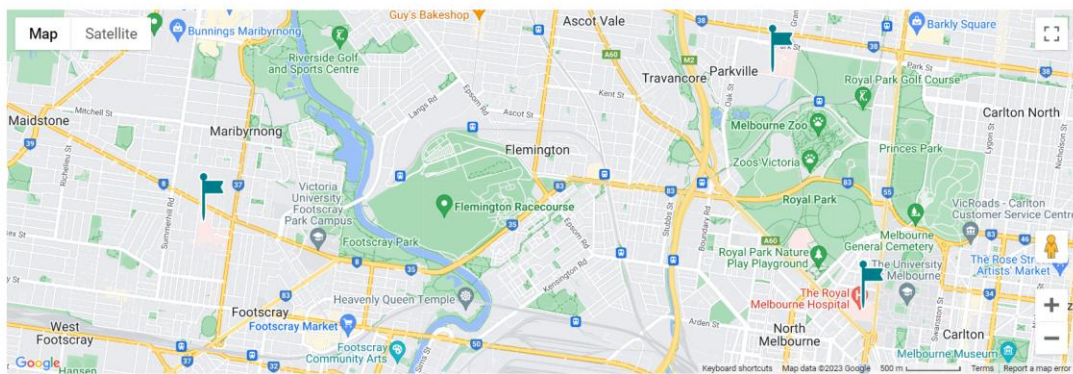
Div : C

Topic : Melbourne Service Station

(<https://www.thermh.org.au/>)

Company map :

Melbourne Health hospitals



Company Overview :

Head Quarter : Melbourne Health is a Victorian Government body that provides health care services in the Melbourne metropolitan area. The headquarters of Melbourne Health is located in the Royal Melbourne Hospital in Parkville, Victoria.

➔ At the Royal Melbourne Hospital, we provide more than 120 services and 350 specialist clinics across our two hospital sites, 50+ community locations and in people's homes .

As a large public hospital and healthcare provider, we work with health professionals statewide to help deliver patient care. Our career and training opportunities for healthcare workers promote professional development and improve patient outcomes.

Melbourne Health Services is a prominent health provider in Australia, renowned for delivering comprehensive health solutions and services to its clientele. The institution has solidified its position in the healthcare sector and operates efficiently across two distinct locations within the same city. The primary hub of the organization, its hospital headquarters, is situated 20 kilometers away from the branch hospital.

The hospital headquarters serves as the central administrative and operational core of Melbourne Health Services. It is likely to house key administrative offices, management facilities, and strategic decision-making units. This central hub plays a crucial role in coordinating and overseeing the overall functioning of the health services provided by the institution.

The branch hospital, located 20 kilometers away from the hospital headquarters, serves as an extension of Melbourne Health Services. It is a satellite facility designed to cater to the healthcare needs of a specific region or community within the city. This distributed model allows the organization to reach a broader population while maintaining a centralized structure for administrative efficiency.

The geographical separation of 20 kilometers between the hospital headquarters and the branch hospital suggests a deliberate strategic positioning. This distance may be influenced by factors such as population density, accessibility, and the need to provide specialized services to distinct communities within the city.

Additionally, it could contribute to the institution's ability to handle different healthcare demands and emergencies effectively. By operating in two locations, Melbourne Health Services aims to enhance its capacity to deliver high-quality healthcare services, improve accessibility for patients, and optimize its overall operational efficiency. This dual-location strategy reflects a commitment to addressing the diverse healthcare needs of the community it serves while maintaining a cohesive and well-organized institutional structure.

The main Head quarter has the following department :

1) Medical Lead Operation & Consultancy Services

2) Medical Emergency and Reporting

3) Medical Records Management

4) Information Technology

5) Customer Service

6) Guest/Waiting area

The Branch hospital has the following department :

1) Nurses & Surgery Operations

2) Hospital Labs

3) Human resource

4) Marketing

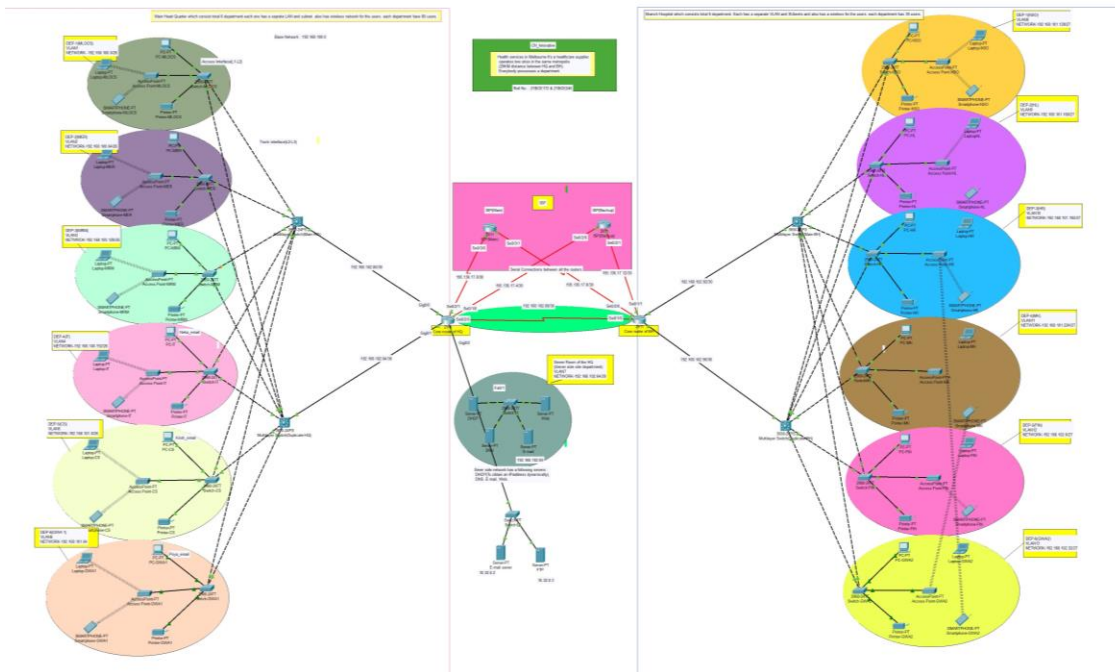
5) Finance

6) Guest/Waiting area

Used Concepts :

- Hierarchical model – For redundancy.
- Access switches, Multilayer switches – For Cost effectiveness.
- VLAN
- Subnetting
- Intervlan
- Wireless Vlan
- OSPF
- SSH
- Default static routing
- Next-hop Ip (When traffic is more)
- Email-server , FTP(File Transfer Protocol)-server.

Final Network :



Successful simulation :

Cisco Packet Tracer - C:\Users\DELL\Downloads\Final_21bce246_21bce172.pkt

File Edit Options View Tools Extensions Help

Logical Physical 3000 x 2044

Simulation Panel

Vis	Time(sec)	Last Device	At Device	Type
	0.020	Multilayer S...	Switch-FIN	STP
	0.020	Multilayer S...	Switch-FIN	STP
	0.020	Multilayer S...	Switch-G...	STP
	0.020	Multilayer S...	Switch-M&K	STP
	0.020	Multilayer S...	Switch-H&L	STP
	0.020	Multilayer S...	Switch-N&O	STP
	0.021	Access P...	Smartpho...	STP
	0.022	Access Poi...	Smartpho...	STP
	0.022	Access Poi...	Smartpho...	STP
	0.042	...	Multilayer...	STP
Visible	0.043	Multilayer S...	Switch-IT	STP
Visible	0.043	Multilayer S...	Switch-CS	STP
Visible	0.043	Multilayer S...	Switch-M...	STP
Visible	0.043	Multilayer S...	Switch-G...	STP
Visible	0.043	Multilayer S...	Switch-MRM	STP
Visible	0.043	Multilayer S...	Switch-MER	STP

Reset Simulation Constant Delay Captured to: 0.043 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, iBGP, iBGPv6, LACP, LACPv6, LLDP, LLDPv6, M&K, N&O, NETFLOW, NTP, OSPF, OSPFv6, P&P, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, Syslog, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 7

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Successful PC-M Multilayer ICMP 0.000 N 0 (edit) (delete)

Automatically Choose Connection Type

Cisco Packet Tracer - C:\Users\DELL\Downloads\Final_21bce246_21bce172.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 3016, y 2002

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
0.043	--	Multilayer ...	Printer-G...	ICMP
0.044	Switch-GWA1	Printer-G...	STP	
0.044	Switch-GWA1	PC-GWA1	STP	
0.044	Switch-GWA1	Access P...	STP	
0.044	Switch-GWA1	Multilayer ...	STP	
0.044	Multilayer S...	Core route...	ICMP	
0.045	Access Poi...	Laptop-G...	STP	
0.045	Access Poi...	Smartpho...	STP	
0.045	Multilayer S...	Switch-MRM	STP	
0.045	Multilayer S...	Switch-CS	STP	
0.045	Multilayer S...	Switch-MER	STP	
0.045	Multilayer S...	Switch-IT	STP	
0.045	Multilayer S...	Switch-M...	STP	
0.045	Core router ...	Switch-M...	STP	
0.045	Core router ...	Switch-M...	ICMP	
Visible 0.298	--	Smartpho...	DHCPv6	
Visible 0.298	--	Smartpho...	DHCPv6	

Reset Simulation ☒ Constant Delay Captured to: 0.298 s

Play Controls

Event List Filters - Visible Events

ACL, Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IOT, IOT TCP, LACP, LLDP, Mxv6, RDP, NETFLOW, NTP, OSPF, OSPFv6, PaP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 7

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Successful	PC-M...	Multilayer ...	ICMP	0.000	N	0	(edit)	(delete)
Successful	Multilayer ...	Core route...	ICMP	0.043	N	1	(edit)	(delete)

Toggle PDU List Window

Time: 19:52:44.356 PLAY CONTROLS

Automatically Choose Connection Type

Cisco Packet Tracer - C:\Users\DELL\Downloads\Final_21bce246_21bce172.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 2196, y 1308

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
0.045	Access Poi...	Laptop-G...	STP	
0.045	Access Poi...	Smartpho...	STP	
0.045	Multilayer S...	Switch-MRM	STP	
0.045	Multilayer S...	Switch-CS	STP	
0.045	Multilayer S...	Switch-MER	STP	
0.045	Multilayer S...	Switch-IT	STP	
0.045	Multilayer S...	Switch-M...	STP	
0.045	Core router ...	Switch-M...	STP	
0.298	--	Smartpho...	DHCPv6	
0.298	--	Smartpho...	DHCPv6	
0.298	--	Core route...	ICMP	
0.299	Core router ...	ISP(Main)	ICMP	
0.300	ISP(Main)	Core route...	ICMP	
0.301	Core router ...	Core route...	ICMP	
0.744	--	Core route...	OSPF	
Visible 0.745	Core router ...	Core route...	OSPF	

Reset Simulation ☒ Constant Delay Captured to: 0.745 s

Play Controls

Event List Filters - Visible Events

ACL, Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IOT, IOT TCP, LACP, LLDP, Mxv6, RDP, NETFLOW, NTP, OSPF, OSPFv6, PaP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 7

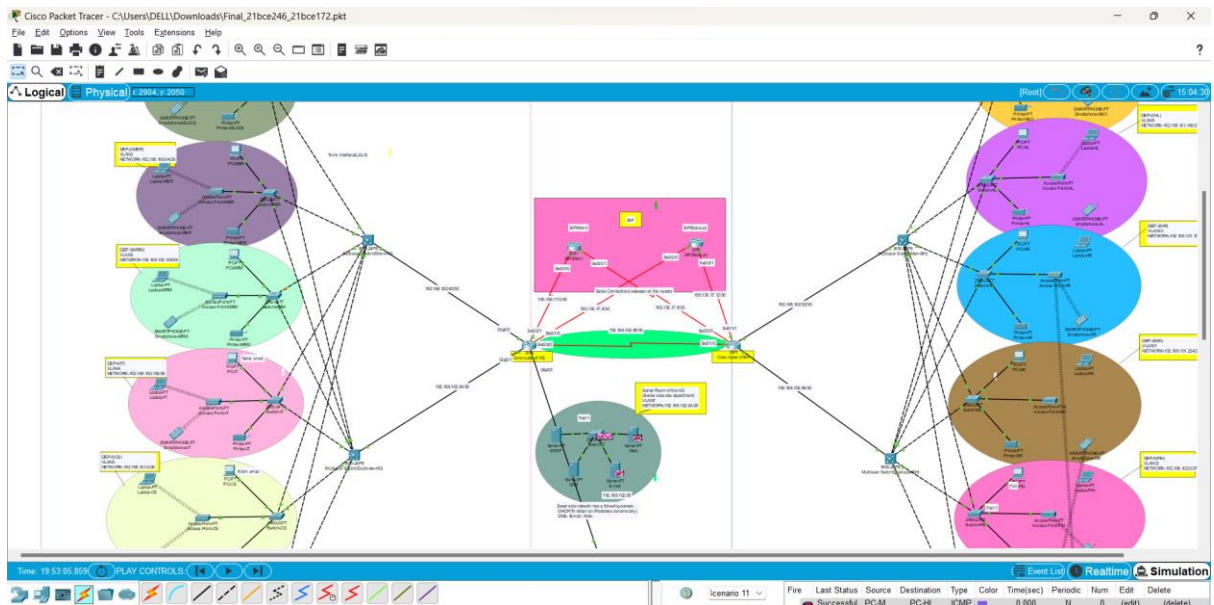
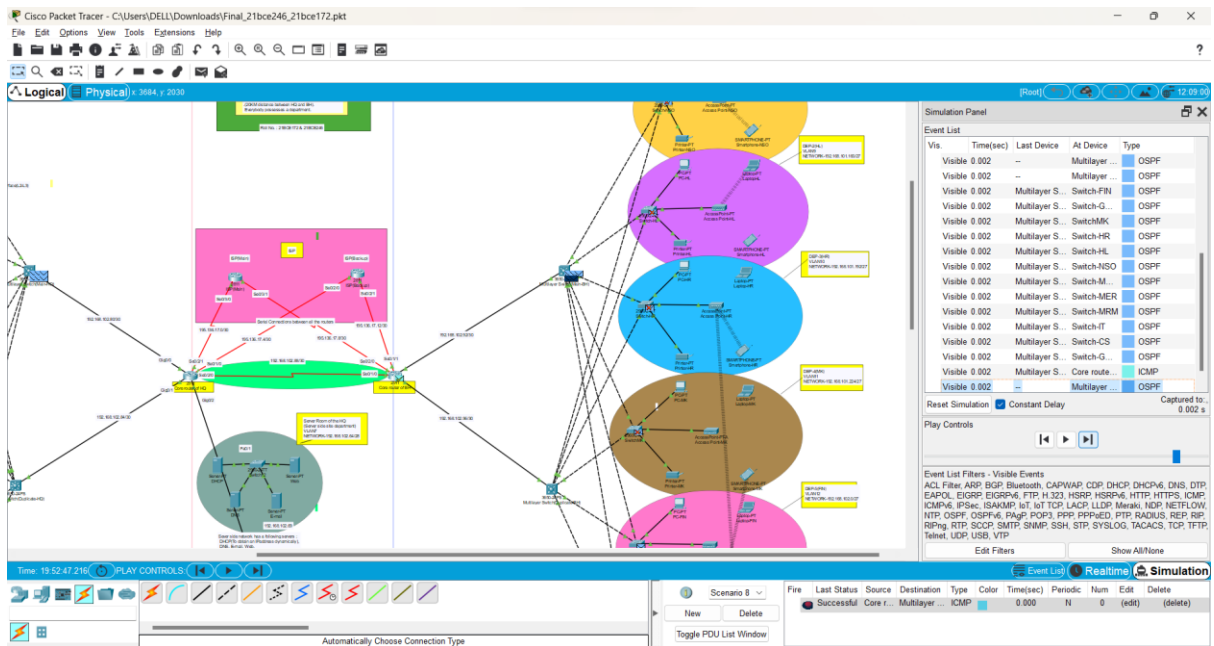
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

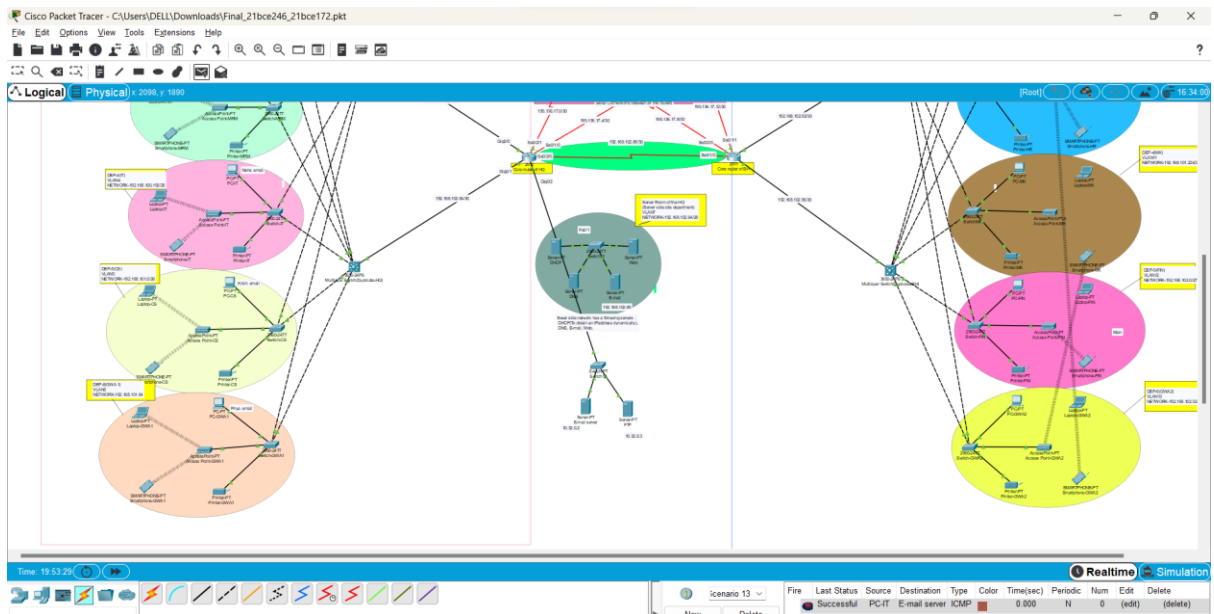
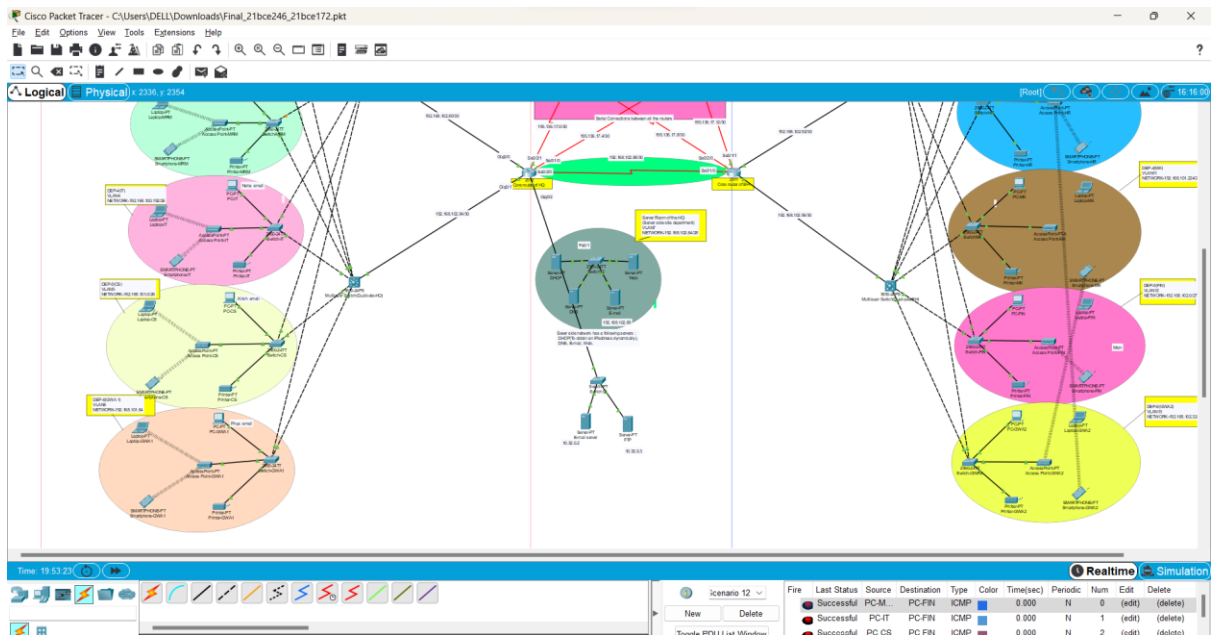
Successful	PC-M...	Multilayer ...	ICMP	0.000	N	0	(edit)	(delete)
Successful	Multilayer ...	Core route...	ICMP	0.043	N	1	(edit)	(delete)
Successful	Core r...	ISP(Main)	ICMP	0.298	N	2	(edit)	(delete)

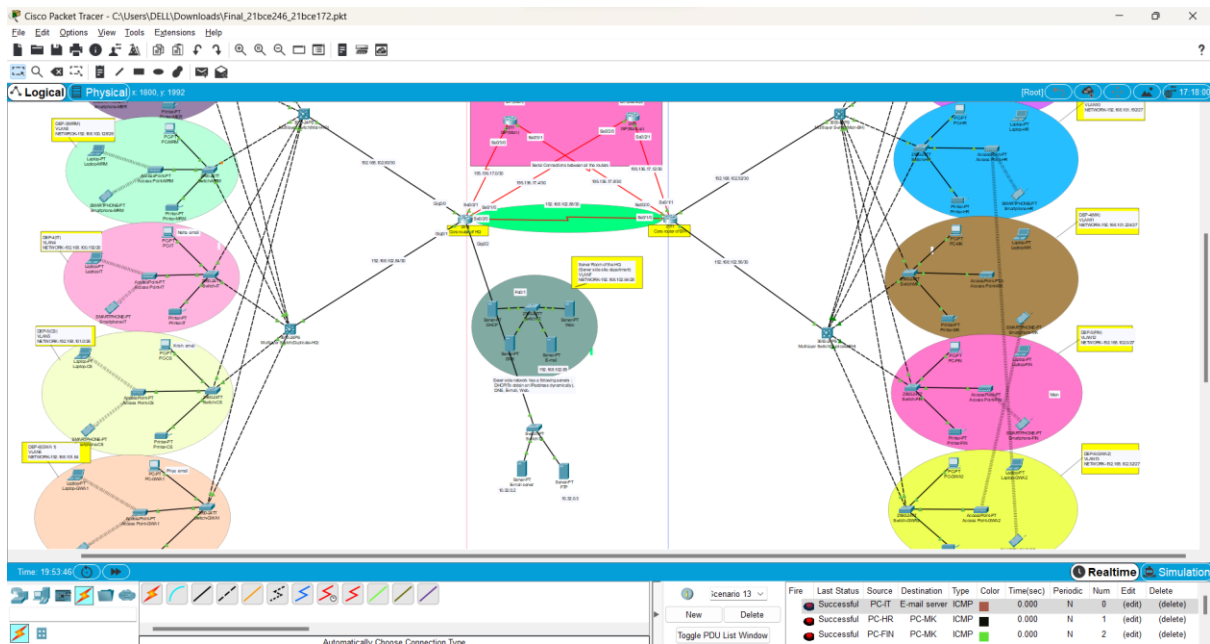
Toggle PDU List Window

Time: 19:52:44.753 PLAY CONTROLS

Automatically Choose Connection Type







1) VLANs & switch confi.

VLAN

vlan 13

name GWA2

exit

interface range fa0/4-5

switchport mode trunk

exit

interface range fa0/1-3

switchport mode access

switchport access vlan 13

exit

interface range fa0/6-24

switchport mode access

switchport access vlan 13

exit

6(vlans)multilayer switches

interface range gig1/0/1

exit

vlan 8

vlan 9

vlan 10

vlan 11

vlan 12

vlan 13

exit

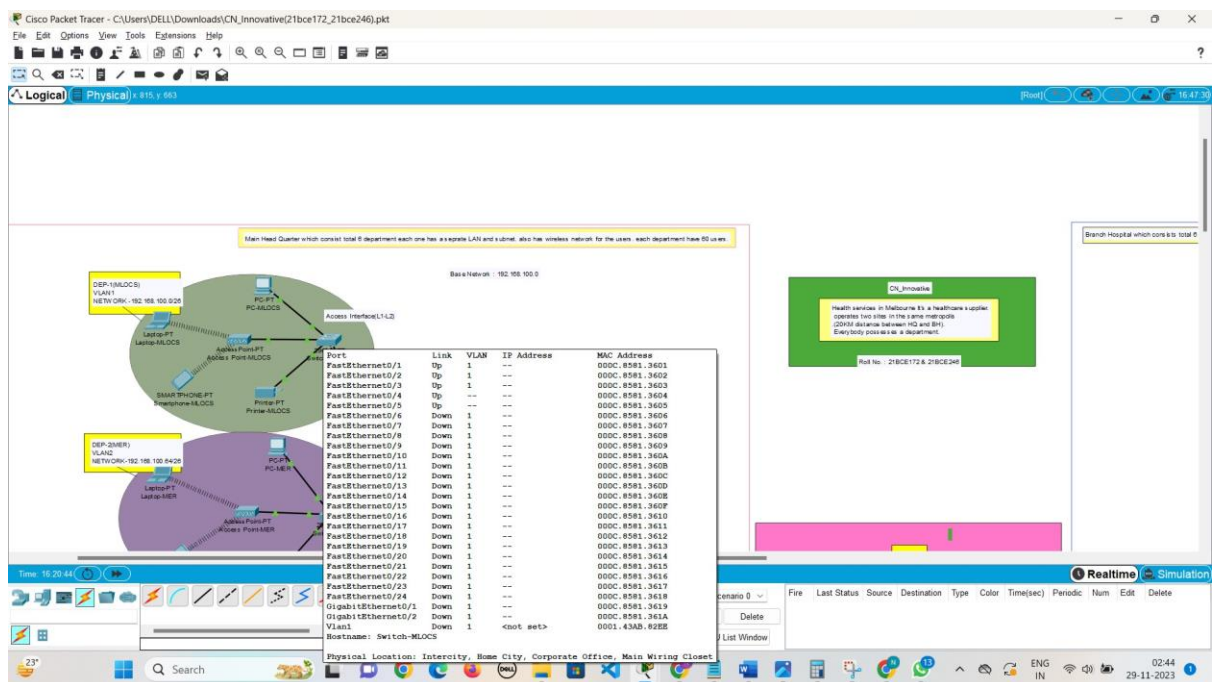
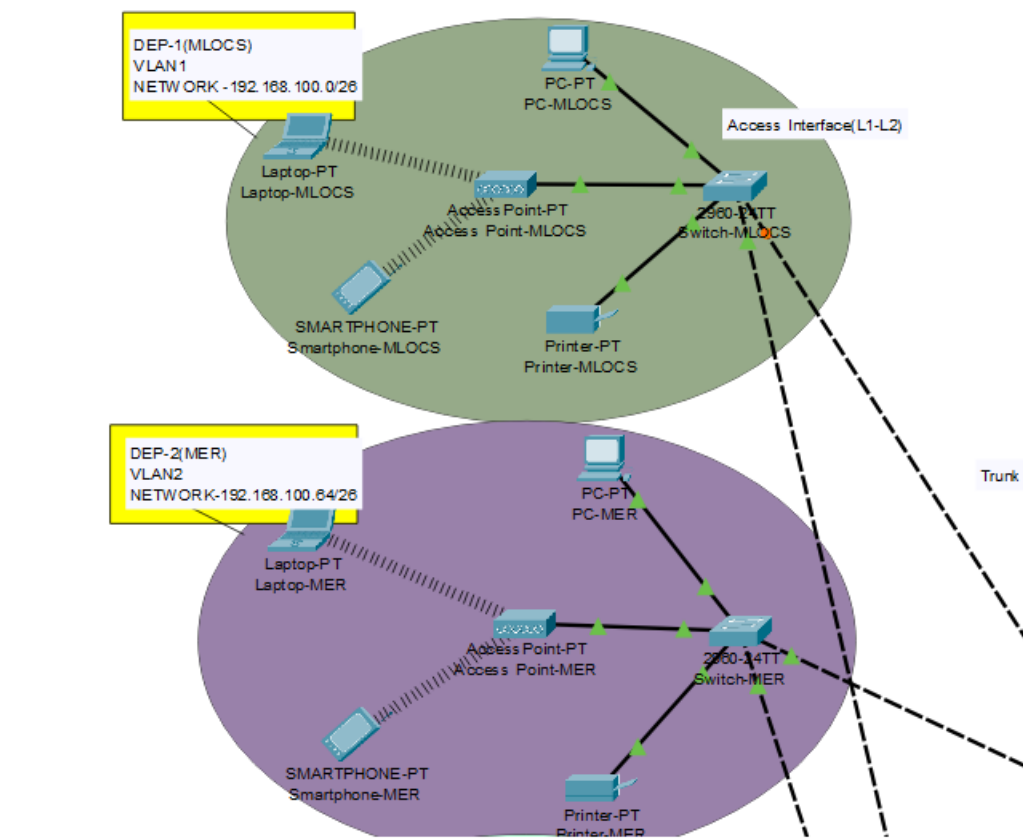
interface range Gig1/0/2-7

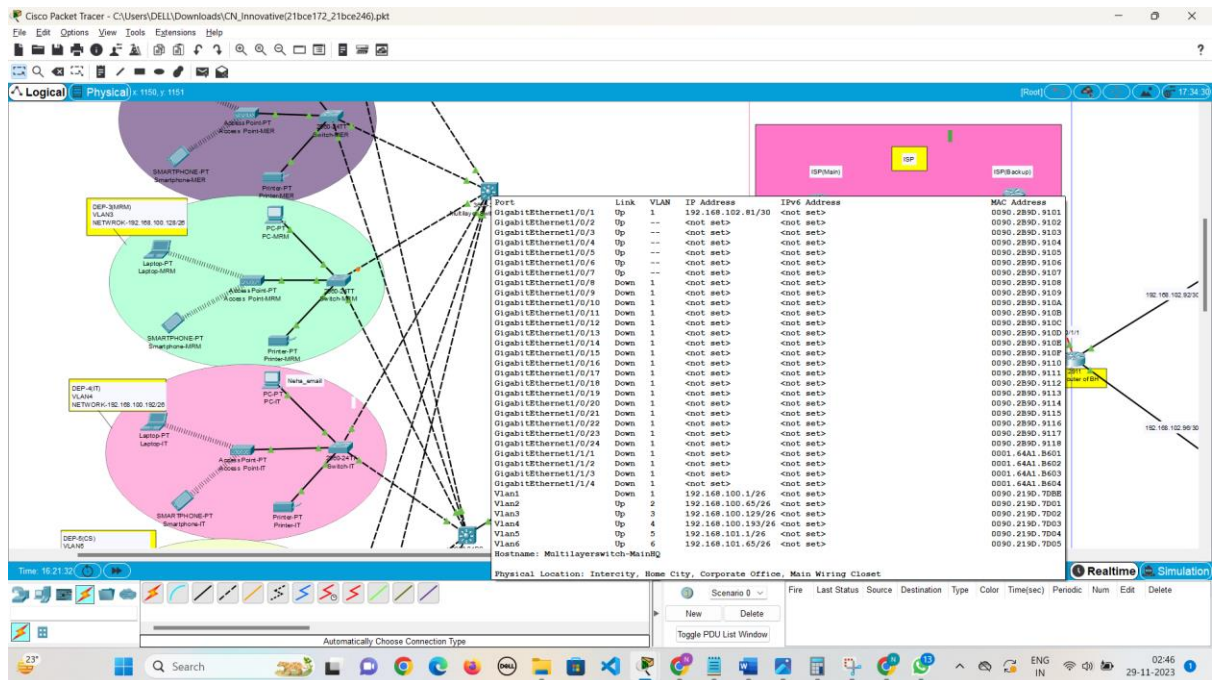
switchport trunk encapsulation dot1q

switchport mode trunk

exit

Created Vlans :





2) SSH

Switch>

Switch>enable

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#hostname SWITCH-IT

SWITCH-IT(config)#enable password cisco

SWITCH-IT(config)#no ip domain lookup

SWITCH-IT(config)#banner motd #No Unauthorised Access!!!#

SWITCH-IT(config)#line console 0

SWITCH-IT(config-line)#password cisco

SWITCH-IT(config-line)#login

SWITCH-IT(config-line)#exit

SWITCH-IT(config)#service password-encryption

SWITCH-IT(config)#

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/5, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet1/0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/6, changed state to up
%LINK-5-CHANGED: Interface GigabitEthernet1/0/7, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/7, changed state to up

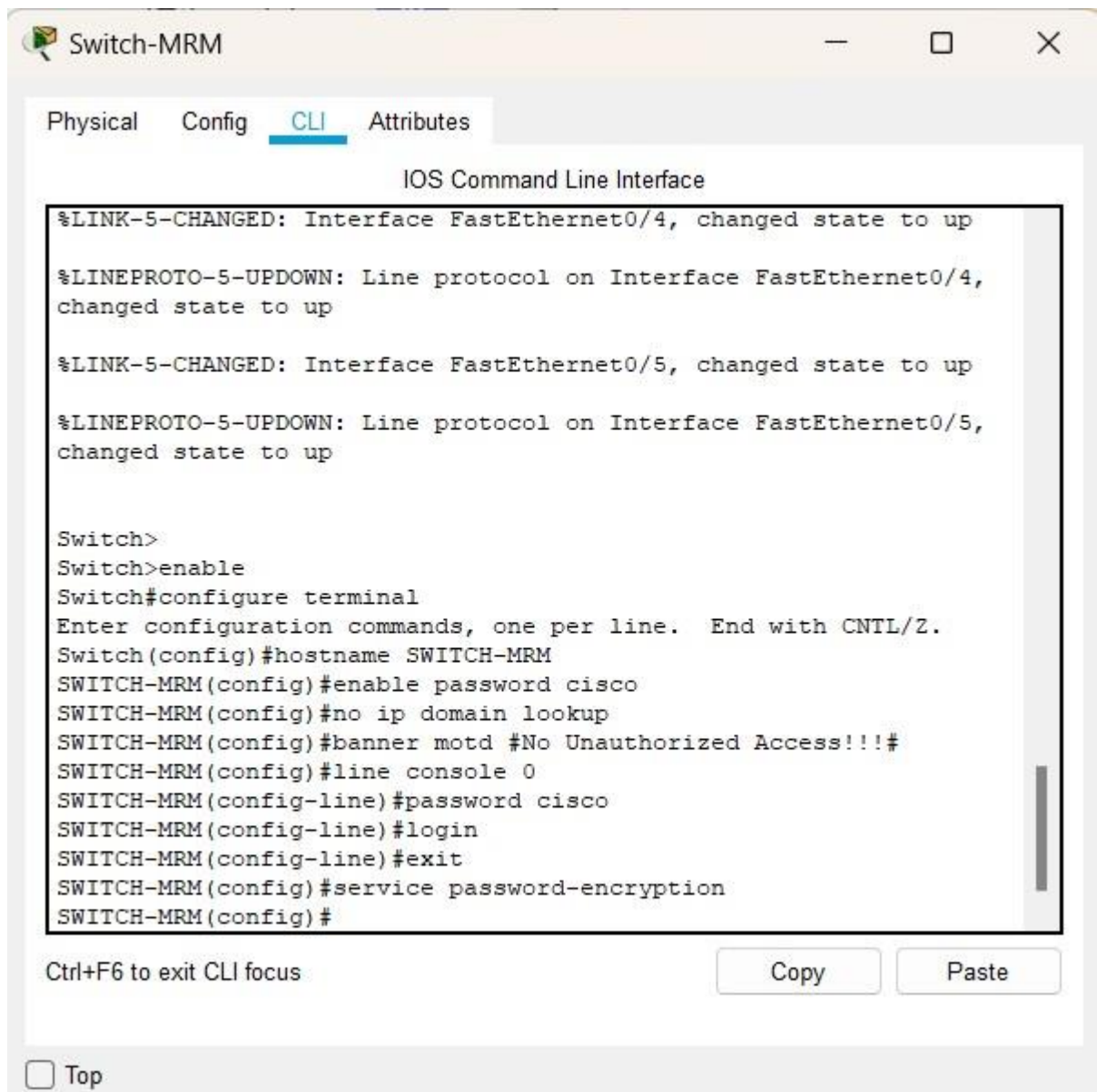
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Multilayerswitch-duplicateHQ
Multilayerswitch-duplicateHQ(config)#enable password cisco
Multilayerswitch-duplicateHQ(config)#no ip domain lookup
Multilayerswitch-duplicateHQ(config)#banner motd #No Unauthorised Access!!!#
Multilayerswitch-duplicateHQ(config)#line console 0
Multilayerswitch-duplicateHQ(config-line)#password cisco
Multilayerswitch-duplicateHQ(config-line)#login
Multilayerswitch-duplicateHQ(config-line)#exit
Multilayerswitch-duplicateHQ(config)#service password-encryption
Multilayerswitch-duplicateHQ(config)#ip domain name cisco.net
Multilayerswitch-duplicateHQ(config)#username admin password cisco
Multilayerswitch-duplicateHQ(config)#crypto key generate rsa
The name for the keys will be: Multilayerswitch-duplicateHQ.cisco.net
Choose the size of the key modulus in the range of 360 to 2048 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.

How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

Multilayerswitch-duplicateHQ(config)#line vty 0 15
*Mar 1 0:43:51.219: %SSH-5-ENABLED: SSH 1.99 has been enabled
Multilayerswitch-duplicateHQ(config-line)#login local
Multilayerswitch-duplicateHQ(config-line)#transport input ssh
Multilayerswitch-duplicateHQ(config-line)#exit
Multilayerswitch-duplicateHQ(config)#do write
Building configuration...
Compressed configuration from 7383 bytes to 3601 bytes[OK]
[OK]
Multilayerswitch-duplicateHQ(config)#
```



3) Assigning Vlans to all Multilayer switches


```

Multilayer Switch(Duplicate-BH)
Physical Config CLI Attributes
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/1, changed state to up
%SPANTRIE-2-SECY_FVID: Received SSID 10 SPID on non trunk GigabitEthernet1/0/2 VLAN1.
%SPANTRIE-2-BLOCK_FVID_LOCAL: Blocking GigabitEthernet1/0/2 on VLAN9001. Inconsistent port type.

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/4, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/4, changed state to up
%SPANTRIE-2-SECY_FVID: Received SSID 10 SPID on non trunk GigabitEthernet1/0/3 VLAN1.
%SPANTRIE-2-BLOCK_FVID_LOCAL: Blocking GigabitEthernet1/0/3 on VLAN9001. Inconsistent port type.

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/3, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/3, changed state to up

User Access Verification
Password:
MultilayerSwitch-DuplicateBH#enable
Password:
MultilayerSwitch-DuplicateBH#configure terminal
% Invalid input detected at '^' marker.
MultilayerSwitch-DuplicateBH#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
MultilayerSwitch-DuplicateBH(config)#interface range gig1/0/1
MultilayerSwitch-DuplicateBH(config-if-range)#exit
MultilayerSwitch-DuplicateBH(config)#
MultilayerSwitch-DuplicateBH(config)#vian 9
MultilayerSwitch-DuplicateBH(config-vlan)#vian 9
MultilayerSwitch-DuplicateBH(config-vlan)#vian 10
MultilayerSwitch-DuplicateBH(config-vlan)#vian 11
MultilayerSwitch-DuplicateBH(config-vlan)#vian 12
MultilayerSwitch-DuplicateBH(config-vlan)#vian 13
MultilayerSwitch-DuplicateBH(config-vlan)#exit
MultilayerSwitch-DuplicateBH(config)#
MultilayerSwitch-DuplicateBH(config)#interface range gig1/0/2-7
MultilayerSwitch-DuplicateBH(config-if-range)#switchport trunk encapsulation dot1q
MultilayerSwitch-DuplicateBH(config-if-range)#switchport mode trunk
MultilayerSwitch-DuplicateBH(config-if-range)#exit
MultilayerSwitch-DuplicateBH(config)#
MultilayerSwitch-DuplicateBH(config)#
Ctrl+F6 to exit CLI focus
Copy Paste

```

4) Switch port security :

```

Switch12
Physical Config CLI Attributes
IOS Command Line Interface

No Unauthorized Access!!!3
banner motd

User Access Verification
Password:
Password:
SWITCH-sss-enable
Password:
SWITCH-sss#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
SWITCH-sss(config)#interface range interface fa0/2--24
% Invalid input detected at '^' marker.
SWITCH-sss(config)#interface range interface fa0/2-24
% Invalid input detected at '^' marker.
SWITCH-sss(config)#interface range fa0/2-24
SWITCH-sss(config-if-range)#switchport-security
% Invalid input detected at '^' marker.
SWITCH-sss(config-if-range)#switchport-security maximum 1
% Invalid input detected at '^' marker.
SWITCH-sss(config-if-range)#switchport-security maximum 1
% Invalid input detected at '^' marker.
SWITCH-sss(config-if-range)#switchport port-security maximum 1
SWITCH-sss(config-if-range)#switchport-security mac-address sticky
% Invalid input detected at '^' marker.
SWITCH-sss(config-if-range)#switchport port-security mac-address sticky
SWITCH-sss(config-if-range)#
SWITCH-sss(config-if-range)#switchport port-security violation shutdown
SWITCH-sss(config-if-range)#exit
SWITCH-sss(config)#do wr
Building configuration...
[OK]
SWITCH-sss(config)#
Ctrl+F6 to exit CLI focus
Copy Paste

```

5)DHCP

Physical

Config

Services

Desktop

Programming

Attributes

Services

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLD

AAA

NTP

EMAIL

FTP

VM Management

Radius EAP

Interface

FastEthernet0

DHCP

Service On

Off

Pool Name

GWAZPool

Default Gateway

192.168.102.33

DNS Server

192.168.102.68

Start IP Address

192.168.102.37

Subnet Mask

255.255.255.224

Maximum Number of Users

25

TFTP Server

0.0.0.0

WLC Address

0.0.0.0

Add

Save

Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
GWAZPool	192.168.102.33	192.168.102.68	192.168.102.37	255.255.255.224	25	0.0.0.0	0.0.0.0
FINPool	192.168.102.1	192.168.102.68	192.168.102.6	255.255.255.224	25	0.0.0.0	0.0.0.0
MkPool	192.168.101.225	192.168.102.68	192.168.101.230	255.255.255.224	25	0.0.0.0	0.0.0.0
HRPool	192.168.101.193	192.168.102.68	192.168.101.196	255.255.255.224	25	0.0.0.0	0.0.0.0
NSPool	192.168.101.129	192.168.102.68	192.168.101.135	255.255.255.224	25	0.0.0.0	0.0.0.0
HLPool	192.168.101.161	192.168.102.68	192.168.101.166	255.255.255.224	26	0.0.0.0	0.0.0.0
GWATPool	192.168.101.65	192.168.102.68	192.168.101.70	255.255.255.192	57	0.0.0.0	0.0.0.0
ITPool	192.168.100.193	192.168.102.68	192.168.100.197	255.255.255.192	57	0.0.0.0	0.0.0.0
CSPool	192.168.101.1	192.168.102.68	192.168.101.6	255.255.255.192	57	0.0.0.0	0.0.0.0
MRMPool	192.168.100.129	192.168.102.68	192.168.100.135	255.255.255.192	57	0.0.0.0	0.0.0.0
MERPool	192.168.100.65	192.168.102.68	192.168.100.70	255.255.255.192	58	0.0.0.0	0.0.0.0
MLOCSPool	192.168.100.1	192.168.102.68	192.168.100.6	255.255.255.192	58	0.0.0.0	0.0.0.0

DHCP -SERVER

Server0

Physical Config Services Desktop Programming Attributes

IP Configuration

☐ DHCP

☒ Static

IP Address

192.168.102.67

Subnet Mask

255.255.255.240

Default Gateway

192.168.102.65

DNS Server

192.168.102.68

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address

FE80::202:4AFF:FEDB:E0ED

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

☐ Top

DNS-SERVER

DNS

Physical

Config

Services

Desktop

Programming

Attributes

IP Configuration

IP Configuration

DHCP

Static

IP Address

192.168.102.68

Subnet Mask

255.255.255.240

Default Gateway

192.168.102.65

DNS Server

0.0.0.0

IPv6 Configuration

DHCP

Auto Config

Static

IPv6 Address

Link Local Address

FE80::204:9AFF:FED8:B147

IPv6 Gateway

IPv6 DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

Top

5) Intervlan of multilayer switch

```

inter vlan 1
ip address 192.168.100.1 255.255.255.192
ip helper-address 192.168.102.67
exit

inter vlan 2
ip address 192.168.100.65 255.255.255.192
ip helper-address 192.168.102.67
exit

inter vlan 3
ip address 192.168.100.129 255.255.255.192
ip helper-address 192.168.102.67
exit

inter vlan 4
ip address 192.168.100.193 255.255.255.192
ip helper-address 192.168.102.67
exit

inter vlan 5
ip address 192.168.101.1 255.255.255.192
ip helper-address 192.168.102.67
exit

inter vlan 6
ip address 192.168.101.65 255.255.255.192
ip helper-address 192.168.102.67
exit

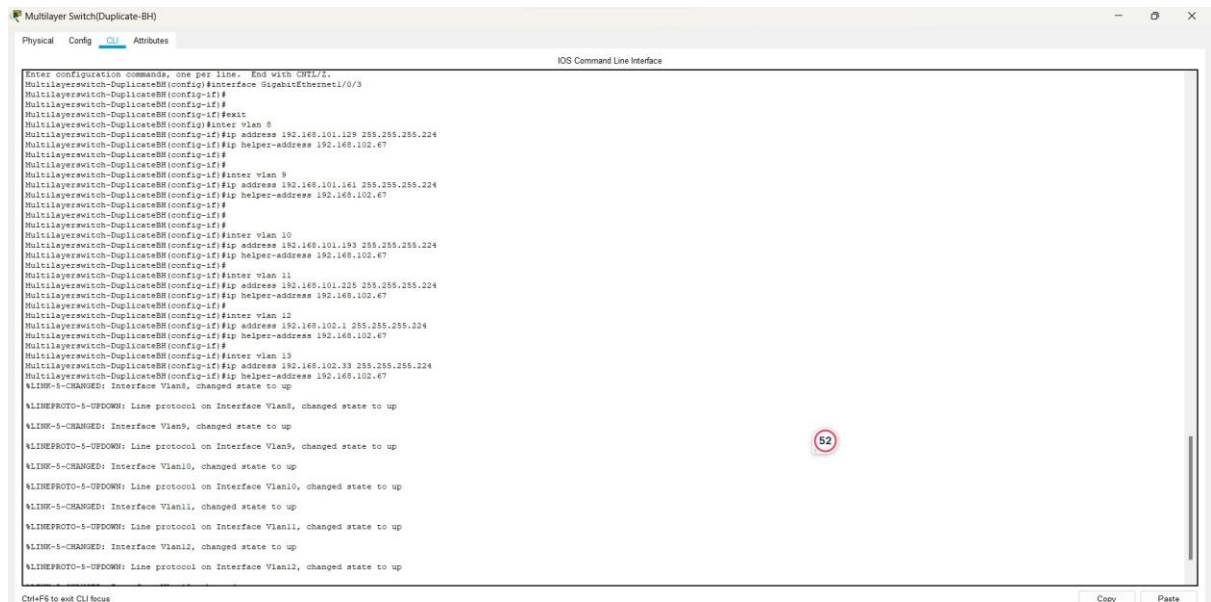
```

Ln 176, Col 1

100%

Windows (CRLF)

UTF-8



6) OSPF

ip routing

router ospf 10

network 192.168.101.128 0.0.0.31 area 0

network 192.168.101.160 0.0.0.31 area 0

network 192.168.101.192 0.0.0.31 area 0

network 192.168.101.224 0.0.0.31 area 0

network 192.168.102.0 0.0.0.31 area 0

network 192.168.102.32 0.0.0.31 area 0

network 192.168.102.96 0.0.0.3 area 0

exit

ip route 0.0.0.0 0.0.0.0 192.168.102.98

(255-240)

routers

router ospf 10

network 195.136.17.4 0.0.0.3 area 0

network 195.136.17.12 0.0.0.3 area 0

exit

do wr

Multilayer Switch(Duplicate-BH)

PhysicalConfigCLIAttributes

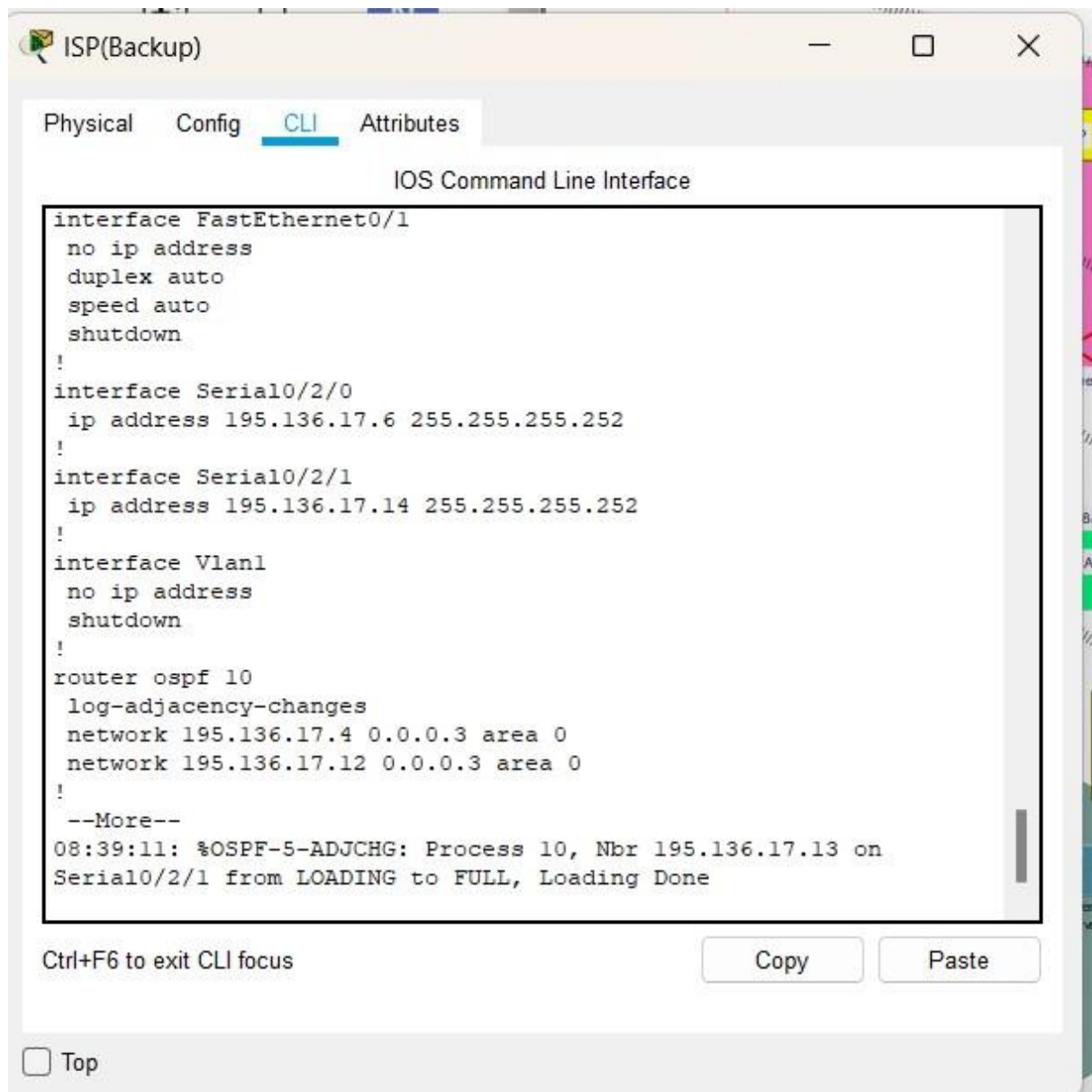
IOS Command Line Interface

```
interface GigabitEthernet1/1/4
!
interface Vlan1
  no ip address
  shutdown
!
router ospf 10
  log-adjacency-changes
  network 192.168.101.128 0.0.0.31 area 0
  network 192.168.101.160 0.0.0.31 area 0
  network 192.168.101.192 0.0.0.31 area 0
  network 192.168.101.224 0.0.0.31 area 0
  network 192.168.102.0 0.0.0.31 area 0
  network 192.168.102.32 0.0.0.31 area 0
  network 192.168.102.96 0.0.0.31 area 0
!
ip classless
ip route 0.0.0.0 0.0.0.0 192.168.102.98
!
ip flow-export version 9
!
!
!
banner motd ^CNo Unauthorised Access!!!^C
--More--
```

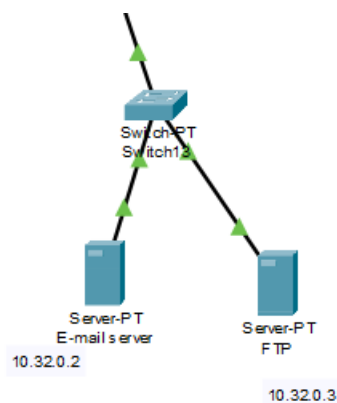
Ctrl+F6 to exit CLI focus

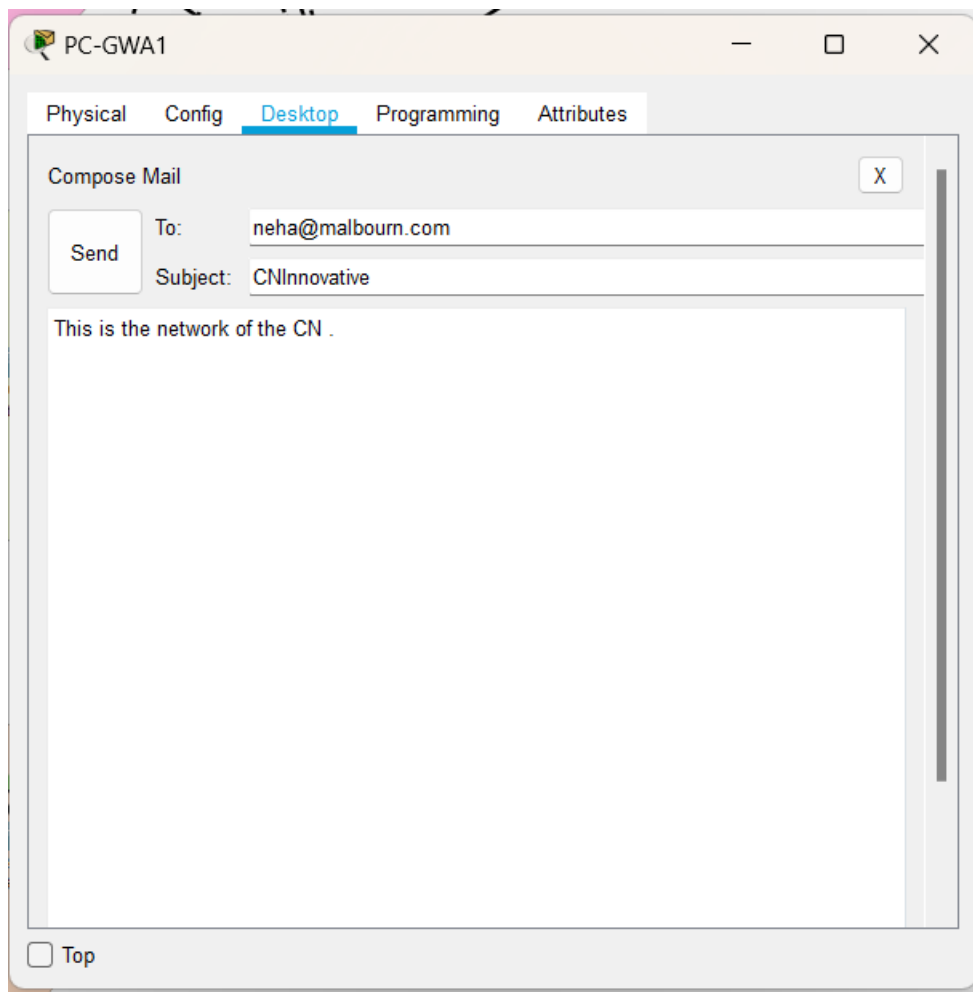
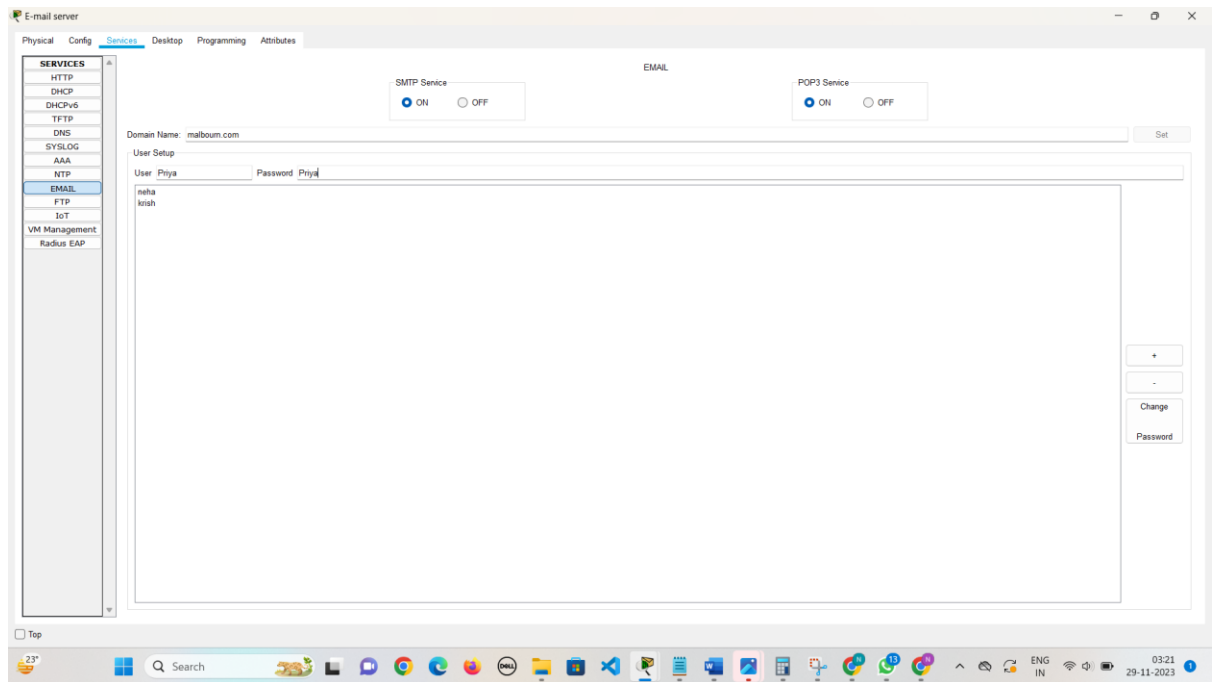
CopyPaste

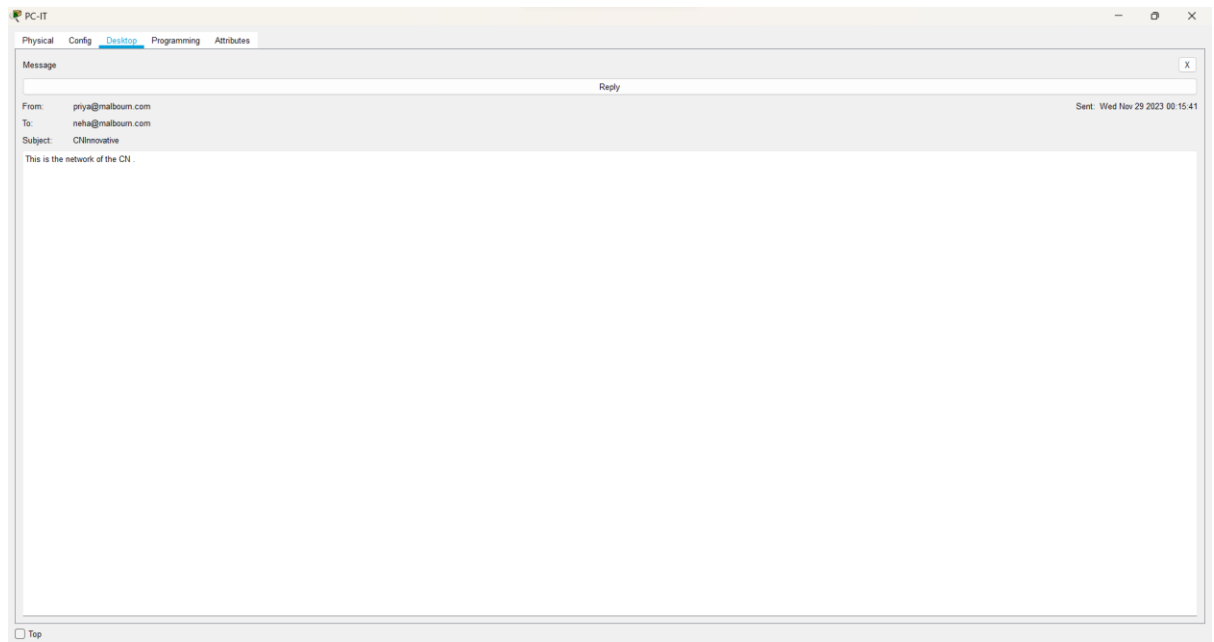
☐ Top



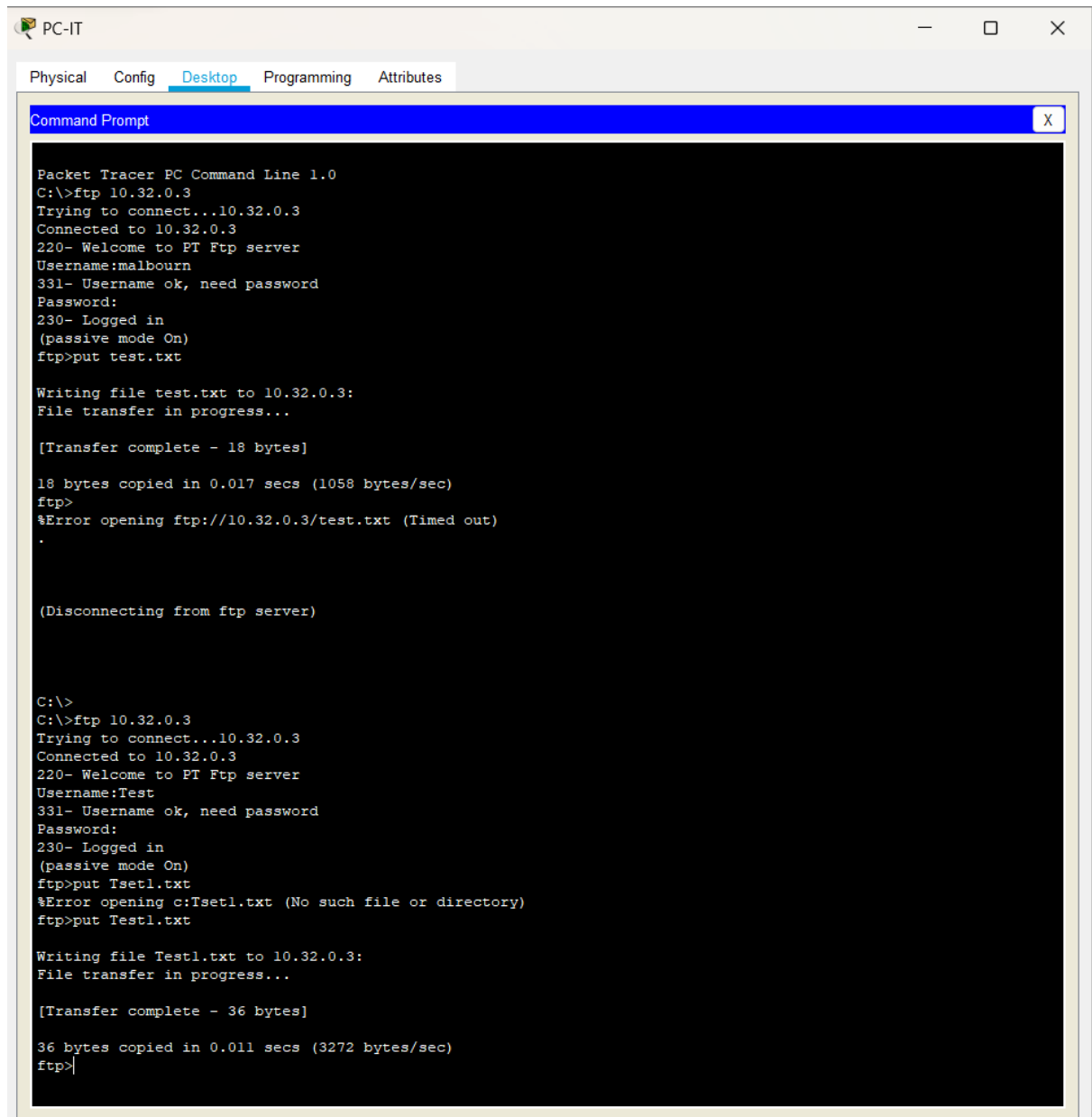
7) Email & FTP server :







FTP



The screenshot shows a Packet Tracer PC-IT window with a Command Prompt open. The Command Prompt has a blue title bar and a black background with white text. The text shows the execution of two FTP sessions. The first session uses the username 'malbourn' and successfully uploads a file 'test.txt' (18 bytes). The second session uses the username 'Test' and attempts to upload 'Tsetl.txt' (which fails with a 'No such file or directory' error) and 'Testl.txt' (which succeeds, uploading 36 bytes).

```
PC-IT
Physical Config Desktop Programming Attributes
Command Prompt X

Packet Tracer PC Command Line 1.0
C:\>ftp 10.32.0.3
Trying to connect...10.32.0.3
Connected to 10.32.0.3
220- Welcome to PT Ftp server
Username:malbourn
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put test.txt

Writing file test.txt to 10.32.0.3:
File transfer in progress...

[Transfer complete - 18 bytes]

18 bytes copied in 0.017 secs (1058 bytes/sec)
ftp>
%Error opening ftp://10.32.0.3/test.txt (Timed out)
.

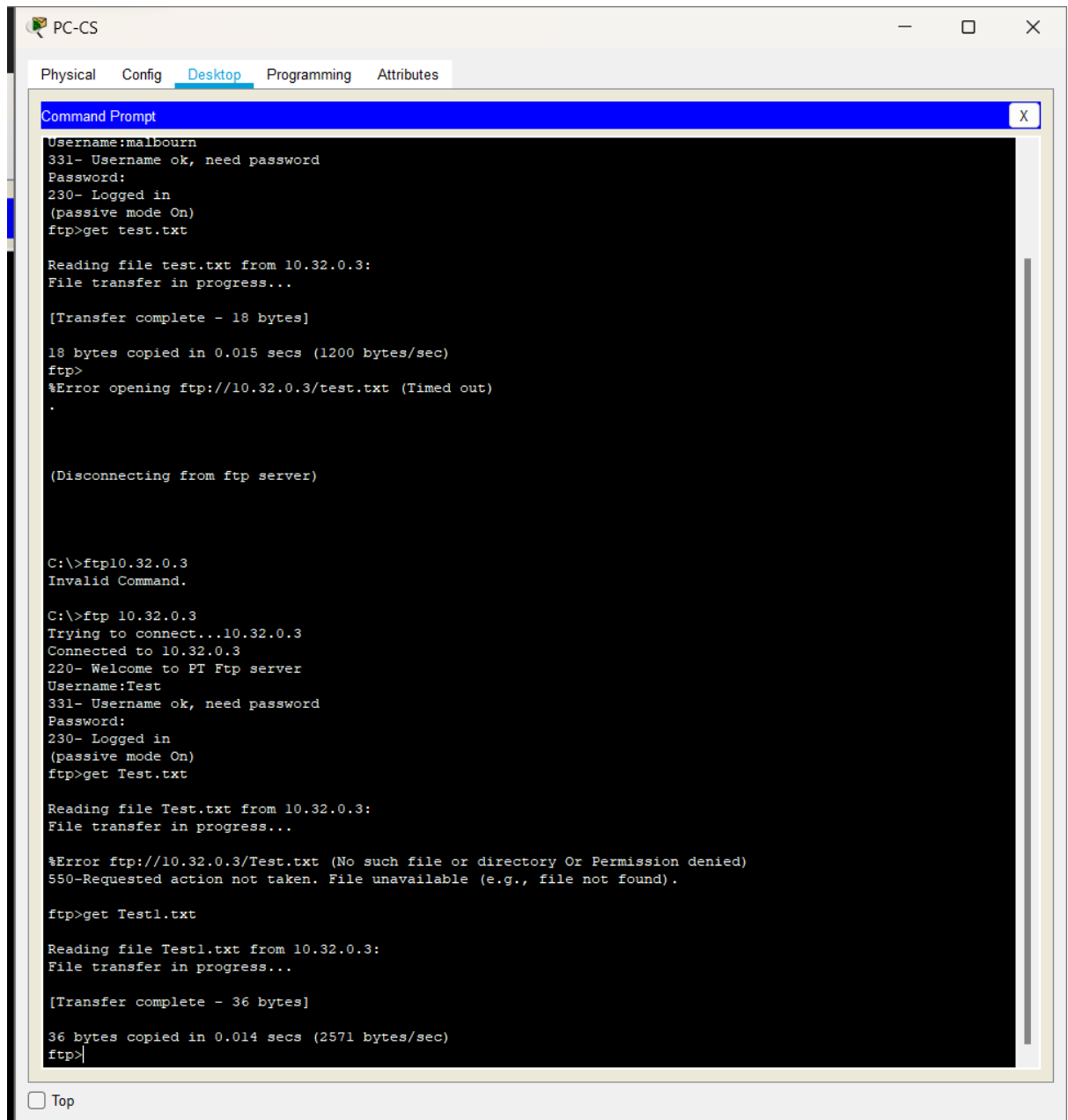
(Disconnecting from ftp server)

C:\>
C:\>ftp 10.32.0.3
Trying to connect...10.32.0.3
Connected to 10.32.0.3
220- Welcome to PT Ftp server
Username:Test
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put Tsetl.txt
%Error opening c:Tsetl.txt (No such file or directory)
ftp>put Testl.txt

Writing file Testl.txt to 10.32.0.3:
File transfer in progress...

[Transfer complete - 36 bytes]

36 bytes copied in 0.011 secs (3272 bytes/sec)
ftp>
```



PC-CS

Physical Config Desktop Programming Attributes

Command Prompt

```
Username:malbourn
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get test.txt

Reading file test.txt from 10.32.0.3:
File transfer in progress...

[Transfer complete - 18 bytes]

18 bytes copied in 0.015 secs (1200 bytes/sec)
ftp>
%Error opening ftp://10.32.0.3/test.txt (Timed out)
.

(Disconnecting from ftp server)

C:\>ftpl0.32.0.3
Invalid Command.

C:\>ftp 10.32.0.3
Trying to connect...10.32.0.3
Connected to 10.32.0.3
220- Welcome to FT Ftp server
Username:Test
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get Test.txt

Reading file Test.txt from 10.32.0.3:
File transfer in progress...

%Error ftp://10.32.0.3/Test.txt (No such file or directory Or Permission denied)
550-Requested action not taken. File unavailable (e.g., file not found).

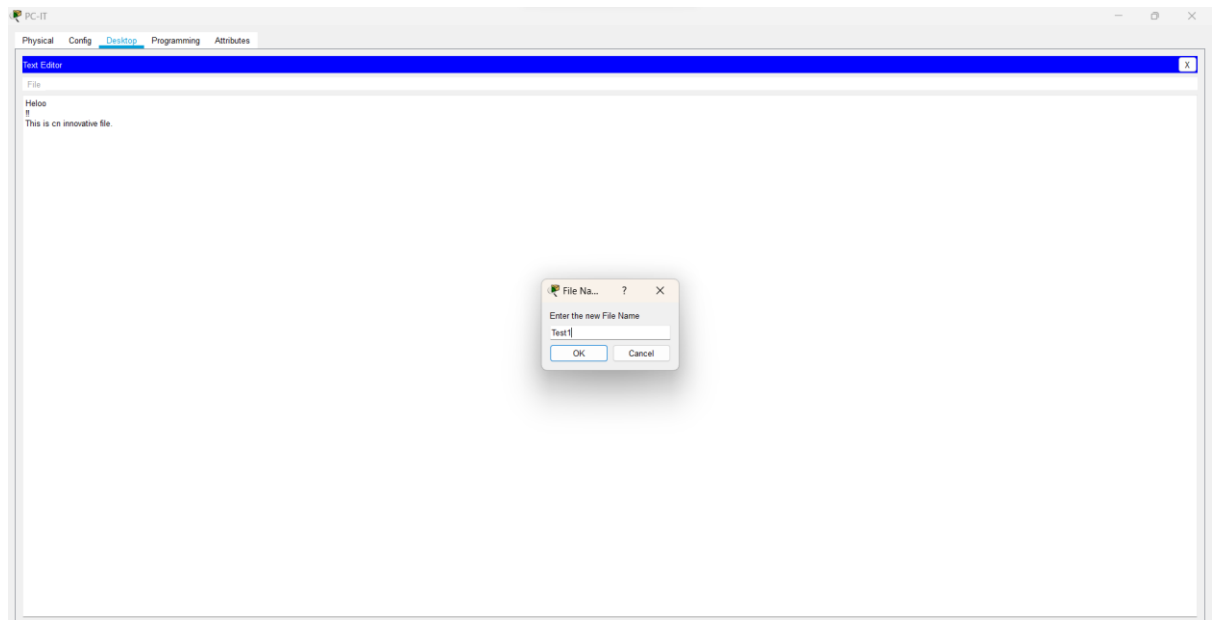
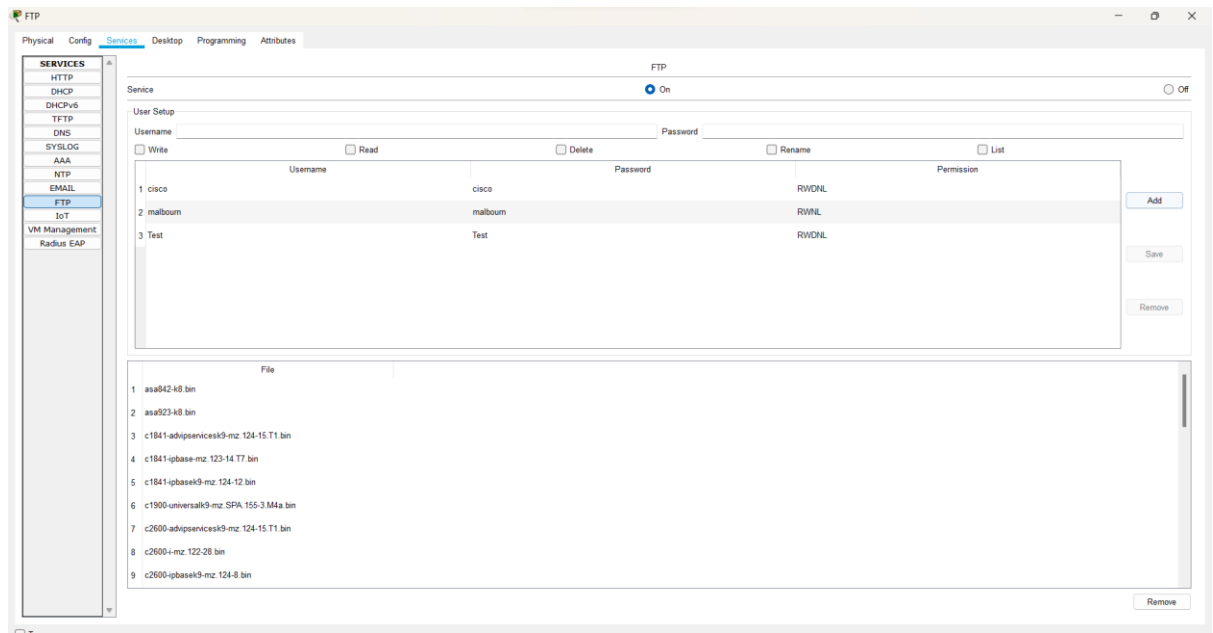
ftp>get Test1.txt

Reading file Test1.txt from 10.32.0.3:
File transfer in progress...

[Transfer complete - 36 bytes]

36 bytes copied in 0.014 secs (2571 bytes/sec)
ftp>
```

☐ Top



8) Wireless :

Access Point-NSO

Physical **Config** Attributes

GLOBAL
Settings

INTERFACE
Port 0
Port 1

Port 1

Port Status: On

SSID: NSO-AP1

2.4 GHz Channel: 6

Coverage Range (meters): 140.00

Authentication:
☐ Disabled
☐ WPA-PSK
☒ WPA2-PSK
☐ WEP

Encryption Type:

WEP Key: NSO-AP123

PSK Pass Phrase: NSO-AP123

User ID: NSO-AP123

Password: NSO-AP123

AES

Top

Laptop-NSO

Physical **Config** Desktop Programming Attributes

GLOBAL
Settings
Algorithm Settings

INTERFACE
Wireless0
Bluetooth

Wireless0

Port Status: On

Bandwidth: 12 Mbps

MAC Address: 000A:41B8:C759

SSID: MSO-AP1

Authentication:
☐ Disabled
☐ WPA-PSK
☐ WPA
☐ 802.1X
☒ WPA2-PSK
☐ WPA2

Encryption Type:

WEP Key: MSO-AP123

PSK Pass Phrase: MSO-AP123

User ID: MSO-AP123

Password: MSO-AP123

MD5: MSO-AP123

User Name: MSO-AP123

Password: MSO-AP123

AES

IP Configuration:
☒ DHCP
☐ Static

IP Address: 169.254.199.89

Subnet Mask: 255.255.0.0

IPv6 Configuration:
☒ DHCP
☐ Auto Config
☐ Static

IPv6 Address: /

Link Local Address: FE80::20A:41FF:FE80:C759

Smartphone-NSO

Physical **Config** Desktop Programming Attributes

GLOBAL
Settings
Algorithm Settings

INTERFACE
Wireless0
3G/4G Cell1
Bluetooth

Wireless0

Port Status: On

Bandwidth: 18 Mbps

MAC Address: 0060:2F21:E59B

SSID: MSO-AP

Authentication:
☐ Disabled
☐ WPA-PSK
☐ WPA
☐ 802.1X
☒ WPA2-PSK
☐ WPA2

Encryption Type:

WEP Key: MSO-AP123

PSK Pass Phrase: MSO-AP123

User ID: MSO-AP123

Password: MSO-AP123

MD5: MSO-AP123

User Name: MSO-AP123

Password: MSO-AP123

AES

IP Configuration:
☒ DHCP
☐ Static

IP Address: /

Subnet Mask: /

IPv6 Configuration:
☒ DHCP
☐ Auto Config
☐ Static

IPv6 Address: /

Link Local Address: FE80::260:2FFF:FE21:E59B

