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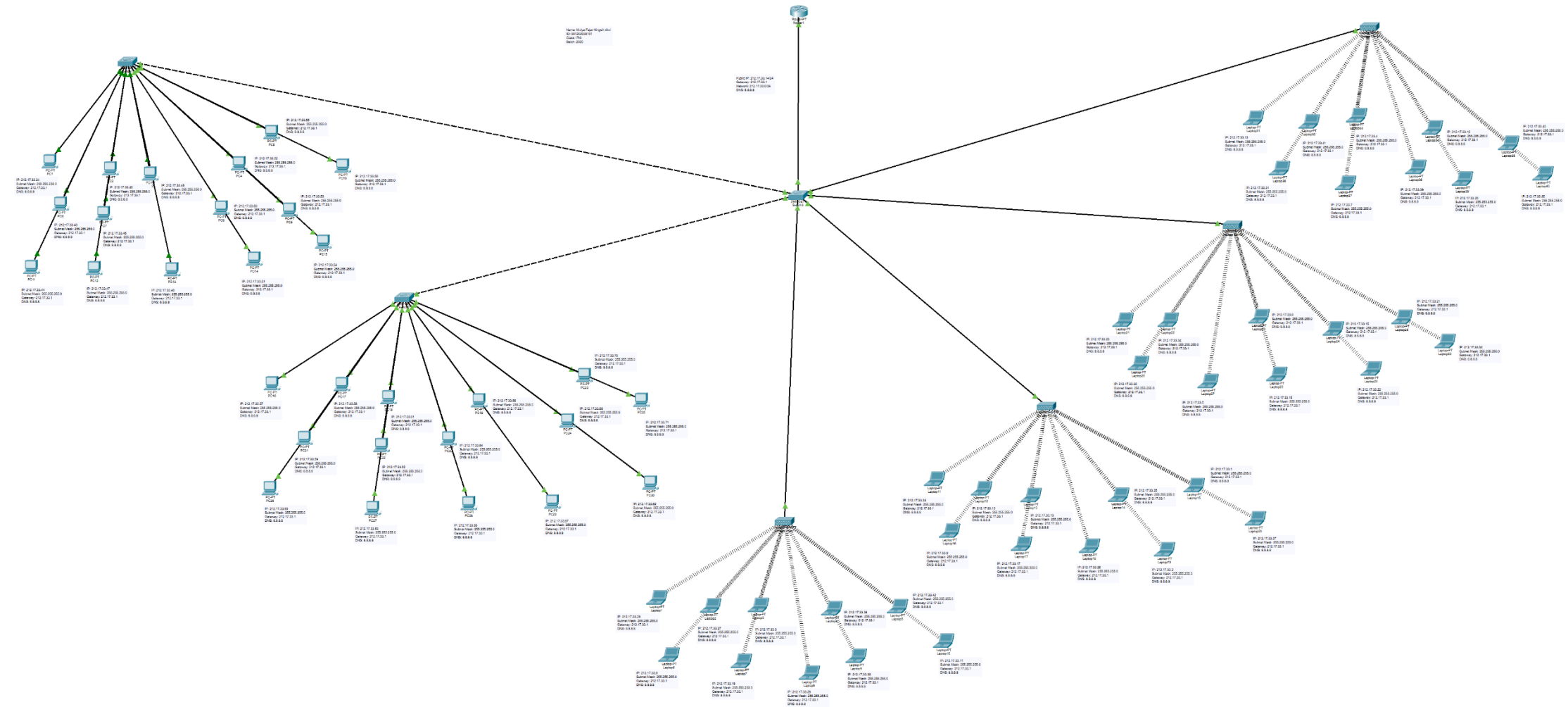
COMPUTER NETWORK COURSE, SEM 2021-1

FINAL-TERM EXAMINATION
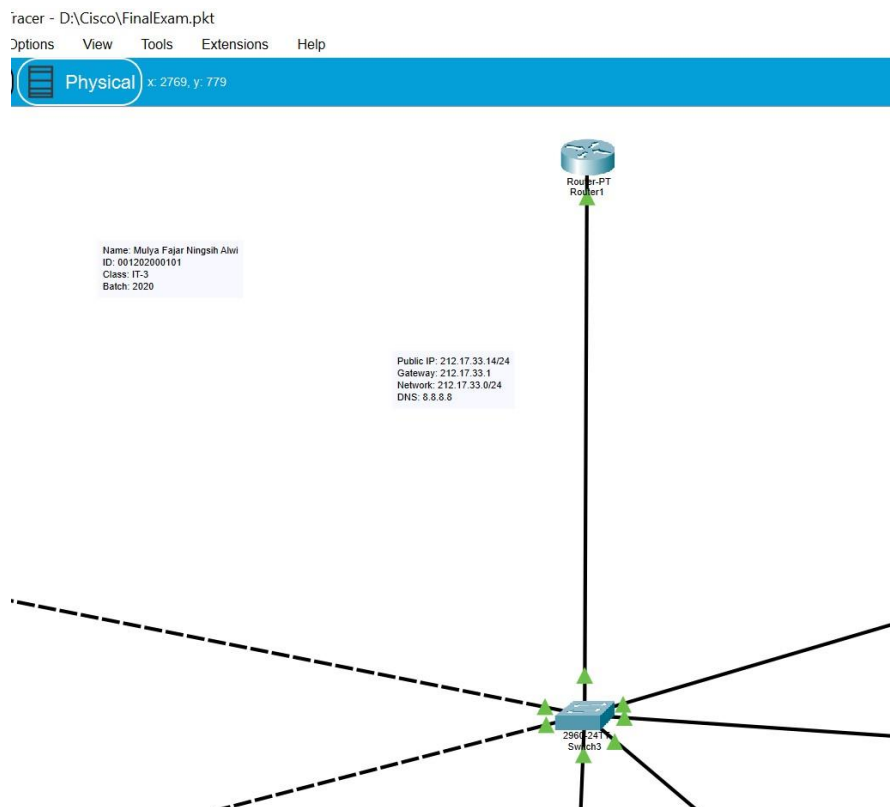
Submitted by:

Mulya Fajar Ningsih Alwi

(001202000101)

IT-2020 CLASS 3

Topology Design (GROUP IV)

Router 1 and Switch 3

Router 1 CLI Config


```
Router>enable
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 212.17.33.14 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#ip dhcp pool R1
Router(dhcp-config)#default-router 212.17.33.1
Router(dhcp-config)#network 212.17.33.0 255.255.255.0
Router(dhcp-config)#dns-server 8.8.8.8
Router(dhcp-config)#%DHCPD-4-PING_CONFLICT: DHCP address conflict:  server pinged 212.17.33.14.
%DHCPD-4-PING_CONFLICT: DHCP address conflict:  server pinged 212.17.33.14.

Router(dhcp-config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#show ip int brief
Interface          IP-Address      OK? Method Status                Protocol
FastEthernet0/0    212.17.33.14    YES manual up                    up
FastEthernet1/0    unassigned      YES unset  administratively down down
Serial2/0          unassigned      YES unset  administratively down down
Serial3/0          unassigned      YES unset  administratively down down
FastEthernet4/0    unassigned      YES unset  administratively down down
FastEthernet5/0    unassigned      YES unset  administratively down down
```
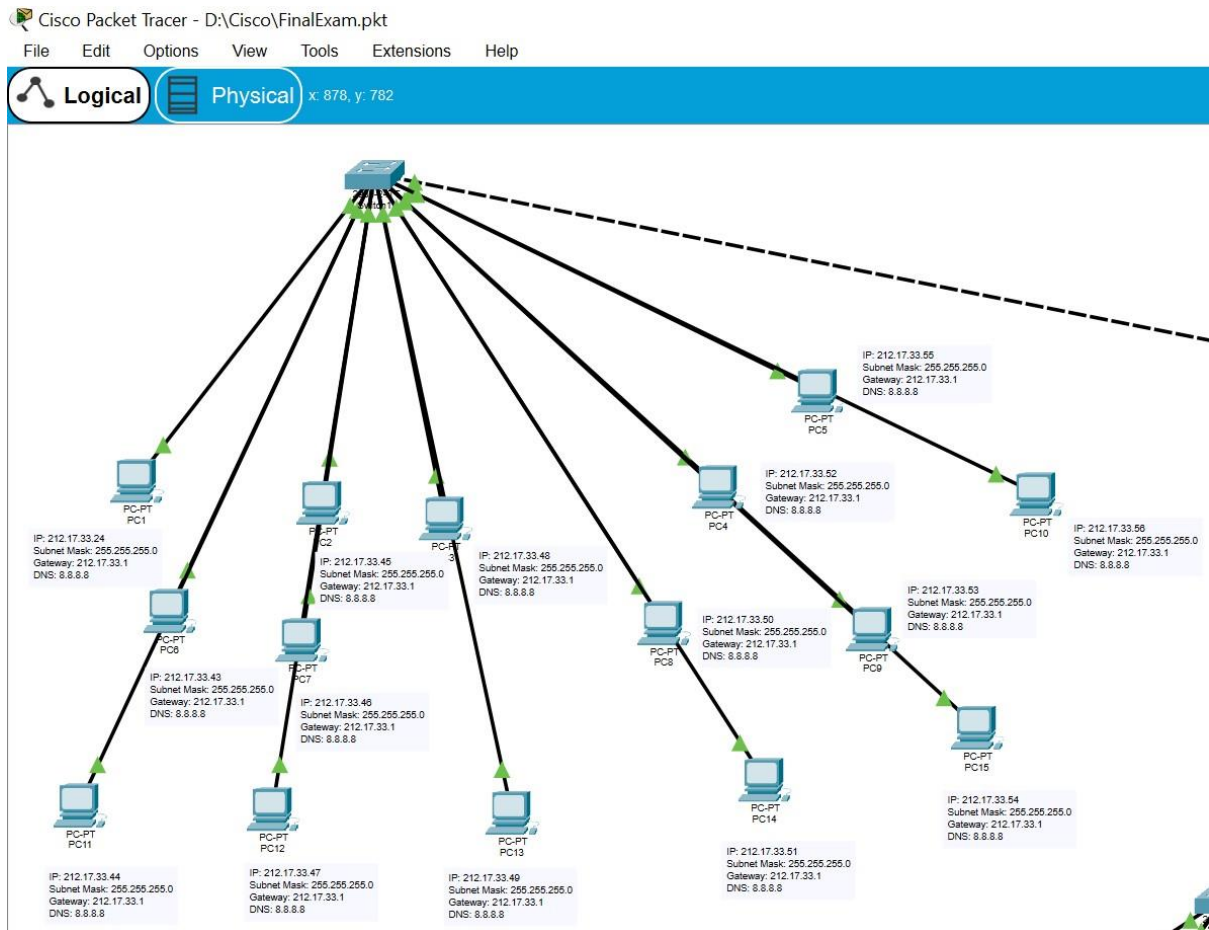
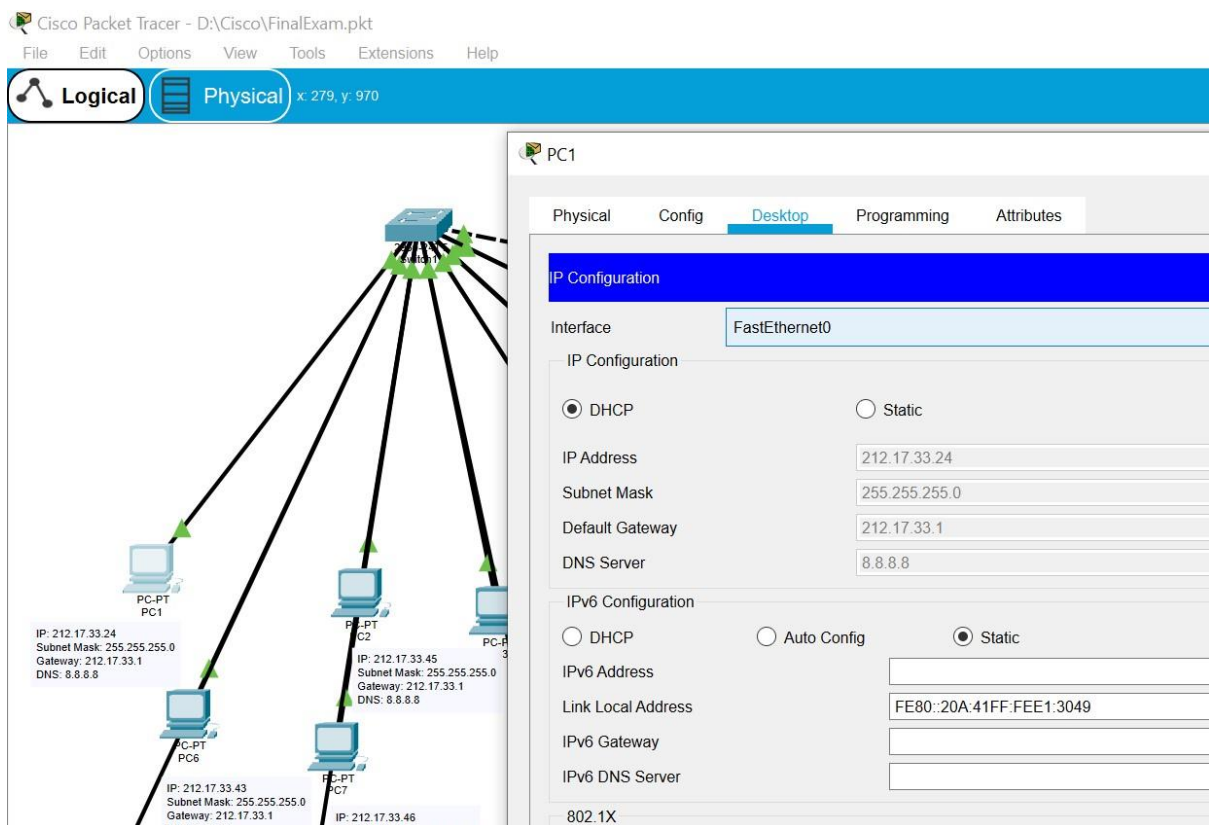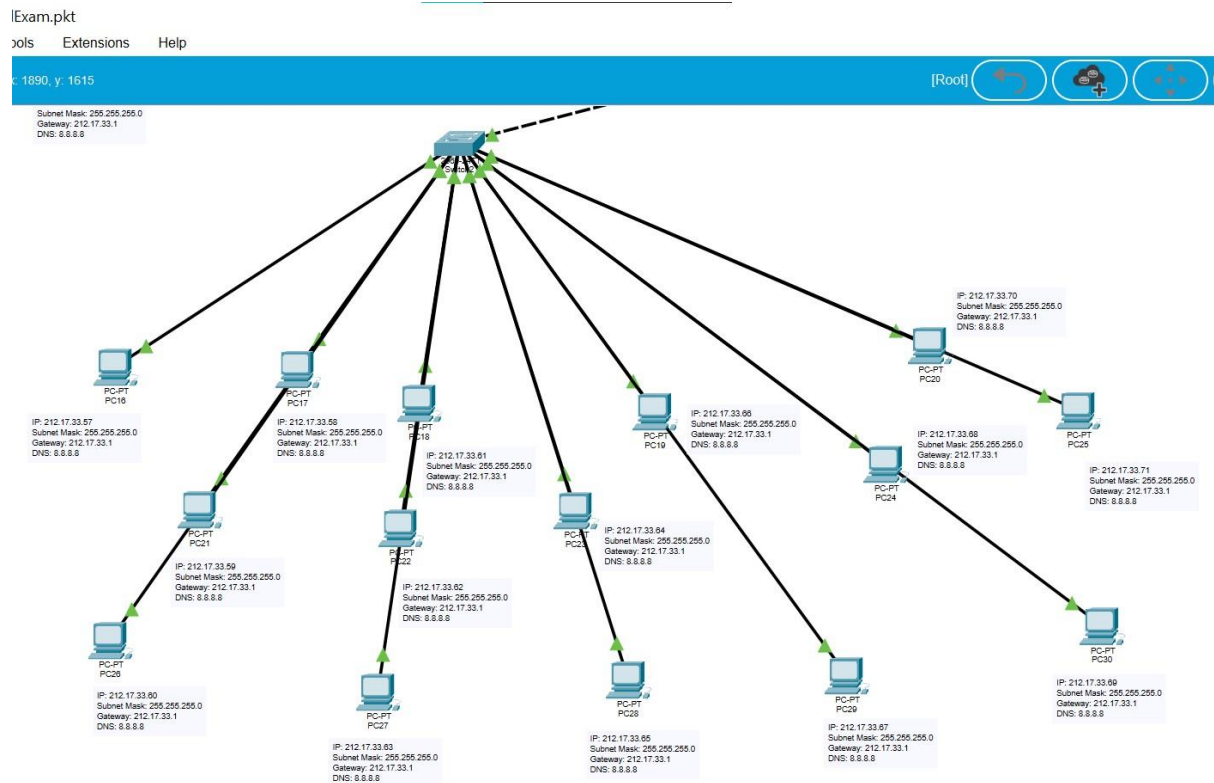## Switch 1 (15 Wired PC (PC 1 – PC 15))

Switch 1 (PC IP Config using DHCP)

Switch 2 (15 Wired PC (PC 16 – PC 30))
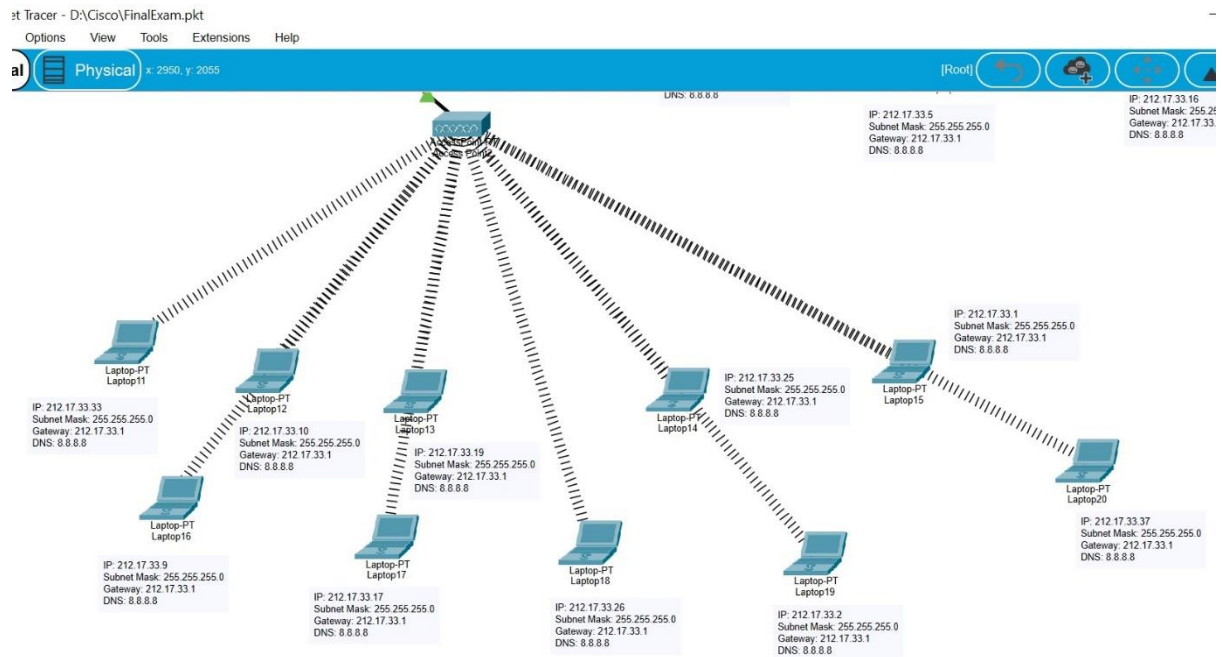

Switch 2 (PC IP Config using DHCP)

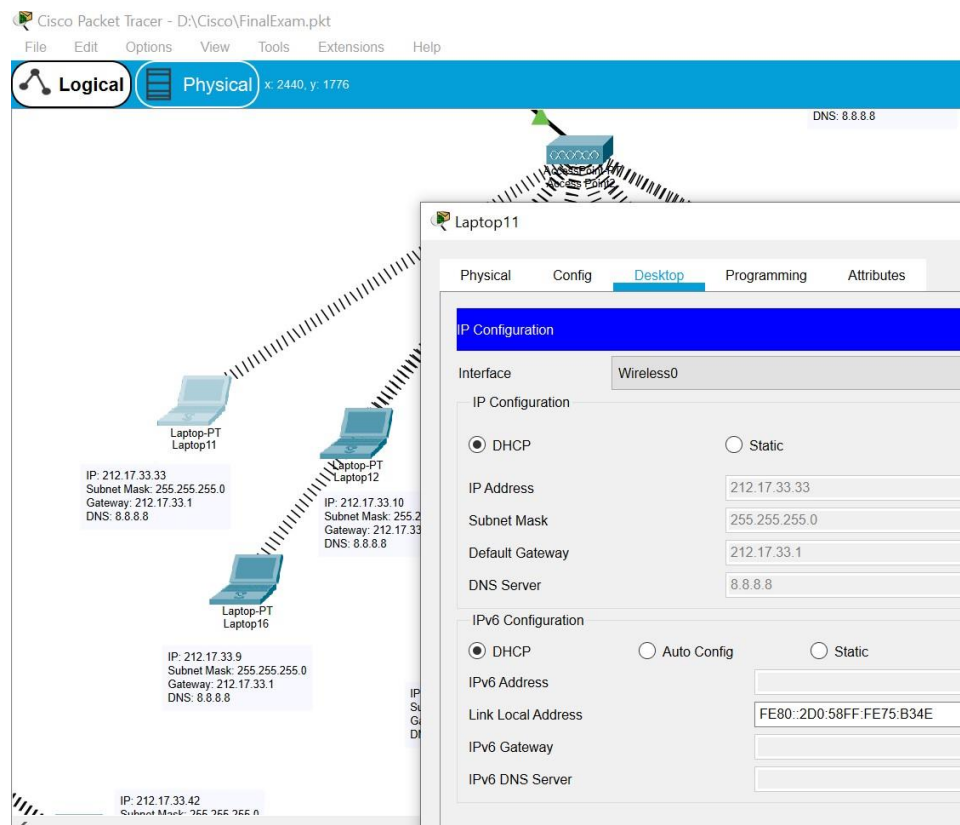## Access Point 1 (10 Wireless Laptop (Laptop 1 – Laptop 10))
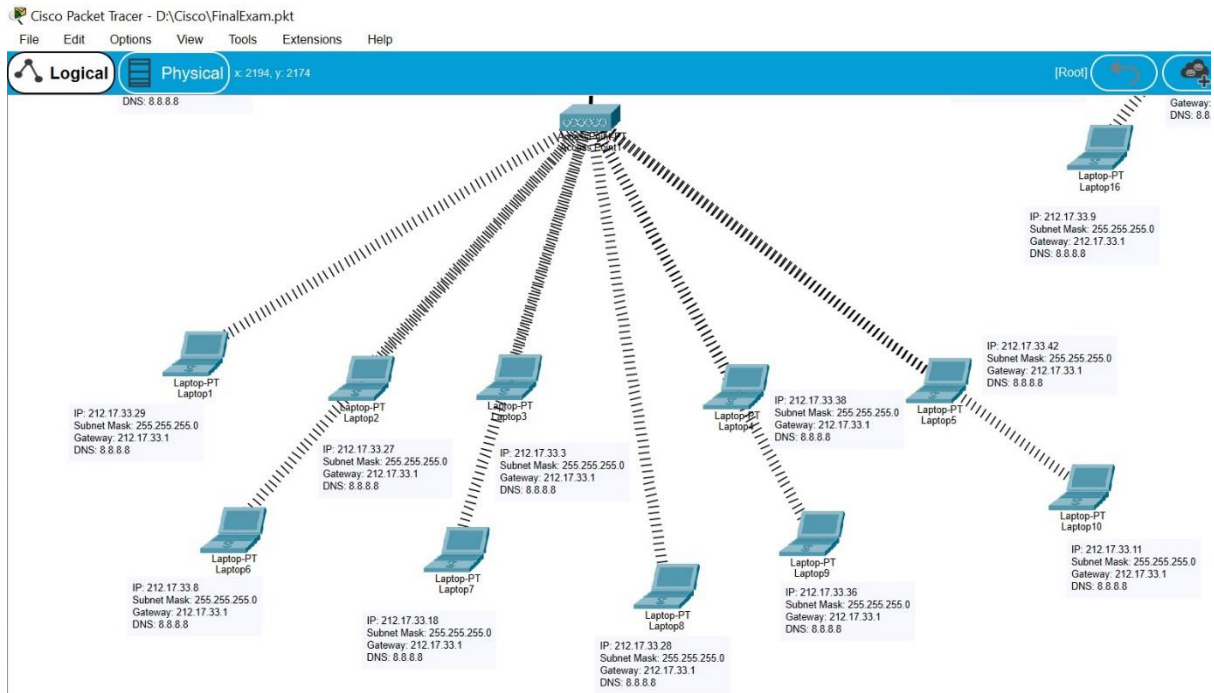
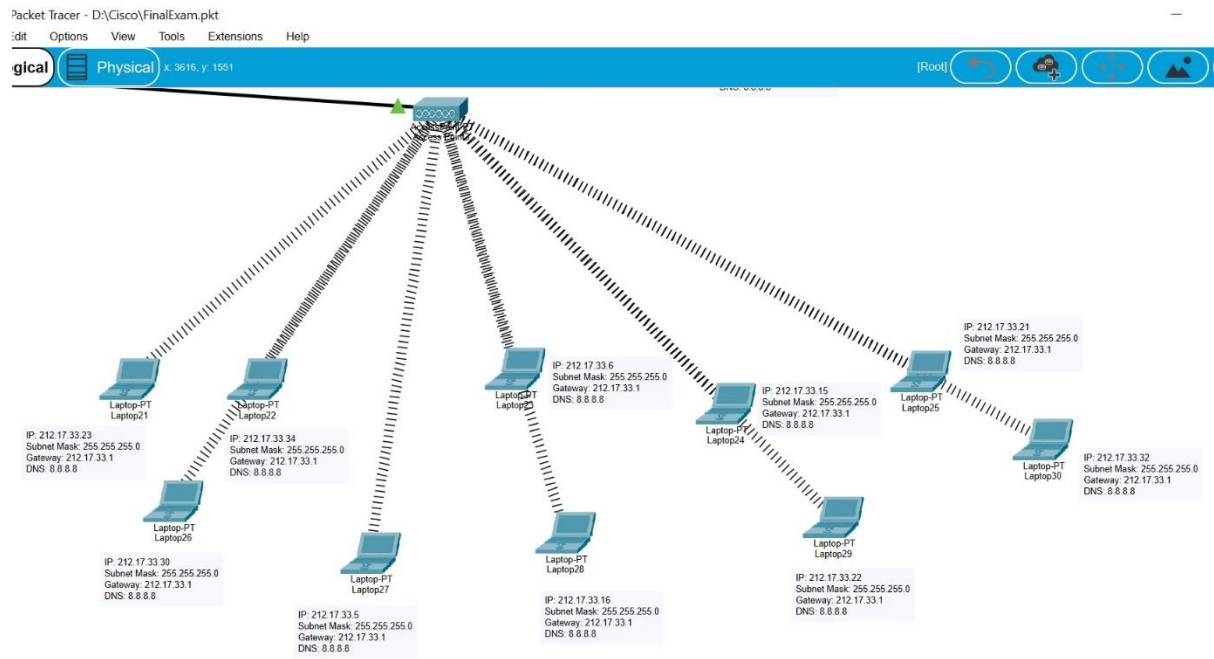## Access Point 1 (Laptop IP Config using DHCP)
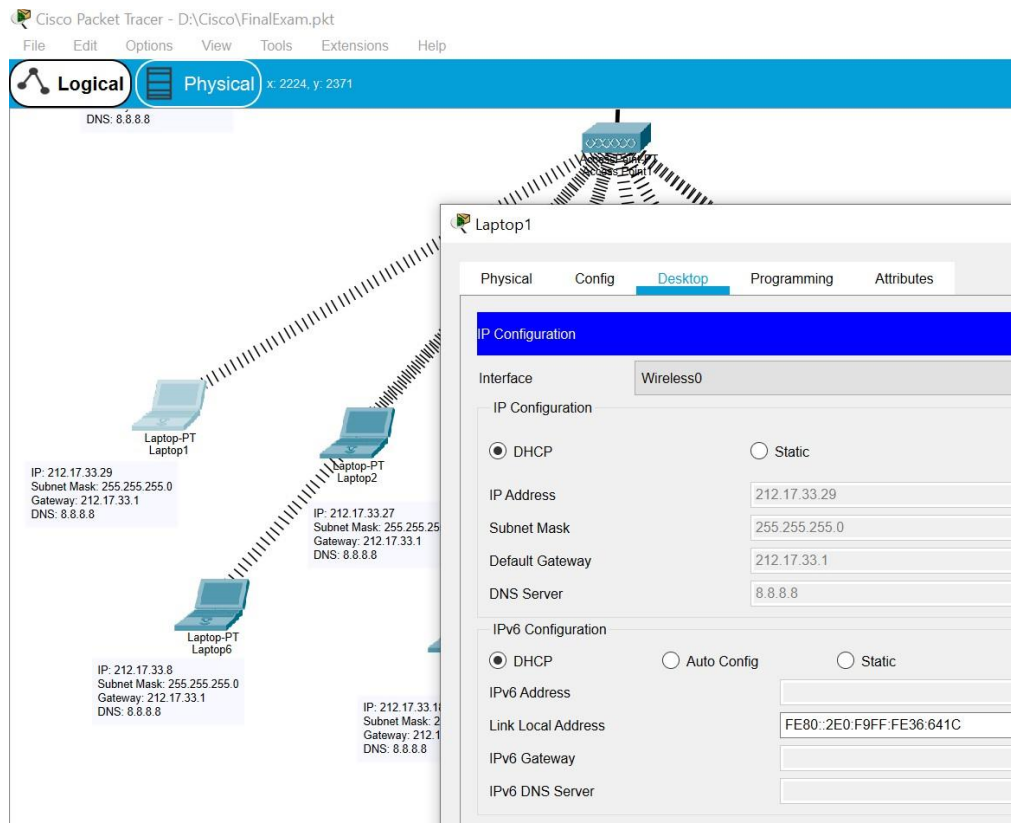
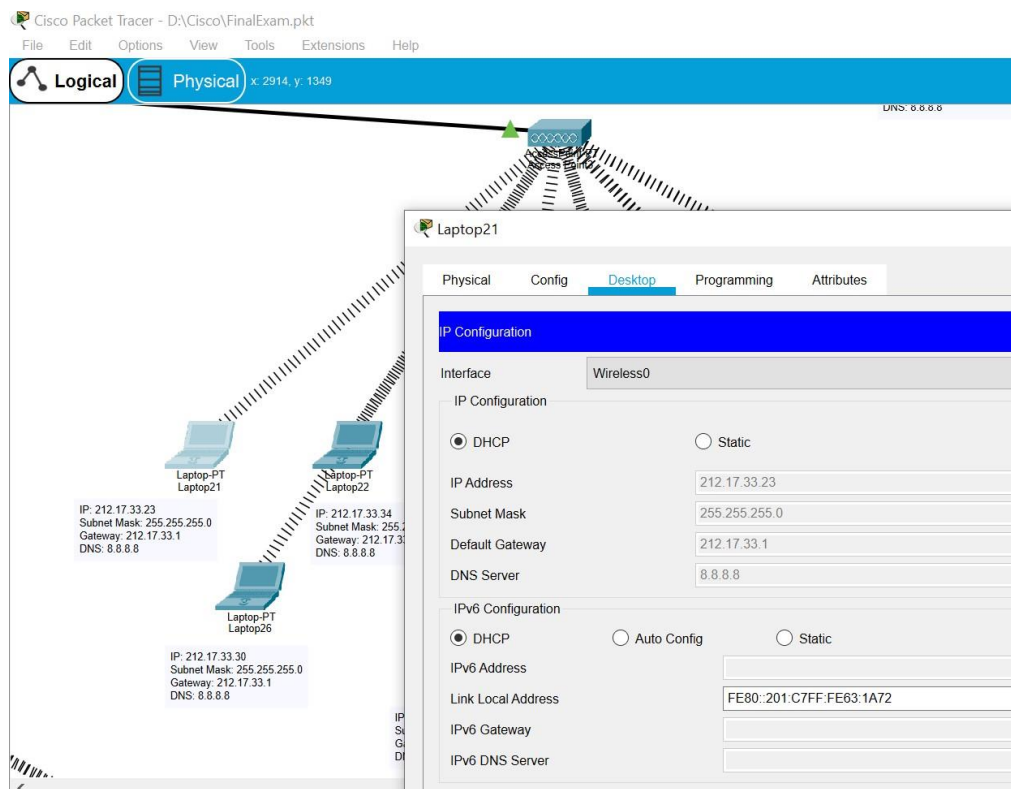## Access Point 2 (10 Wireless Laptop (Laptop 11 – Laptop 20))
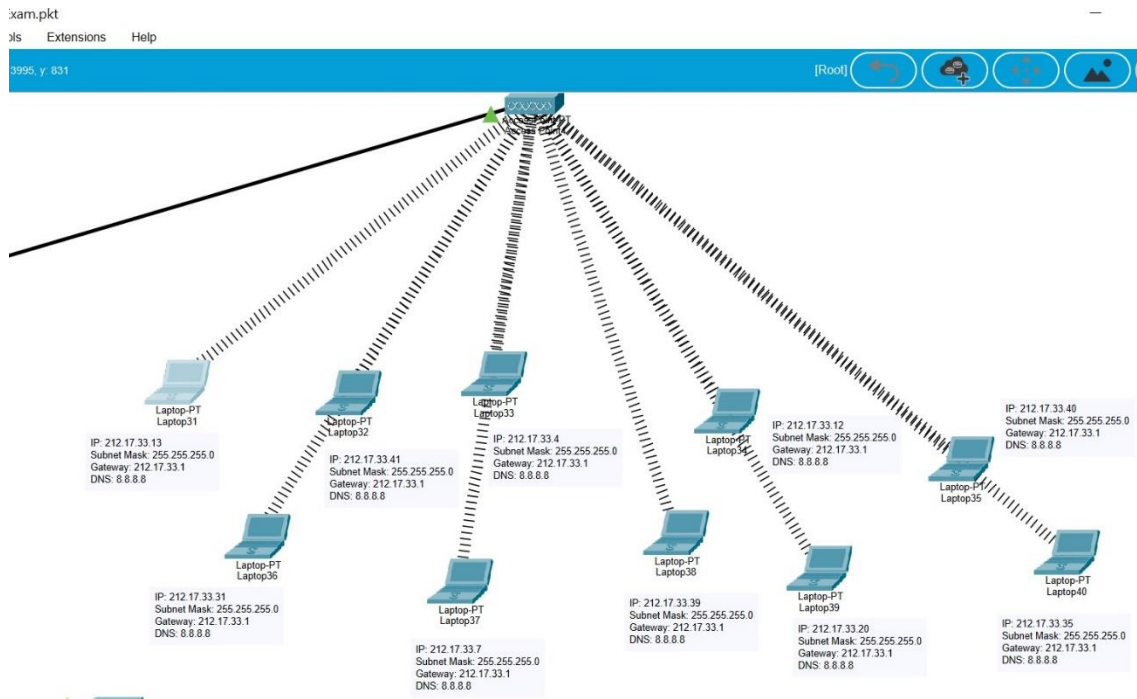

Access Point 2 (Laptop IP Config using DHCP)
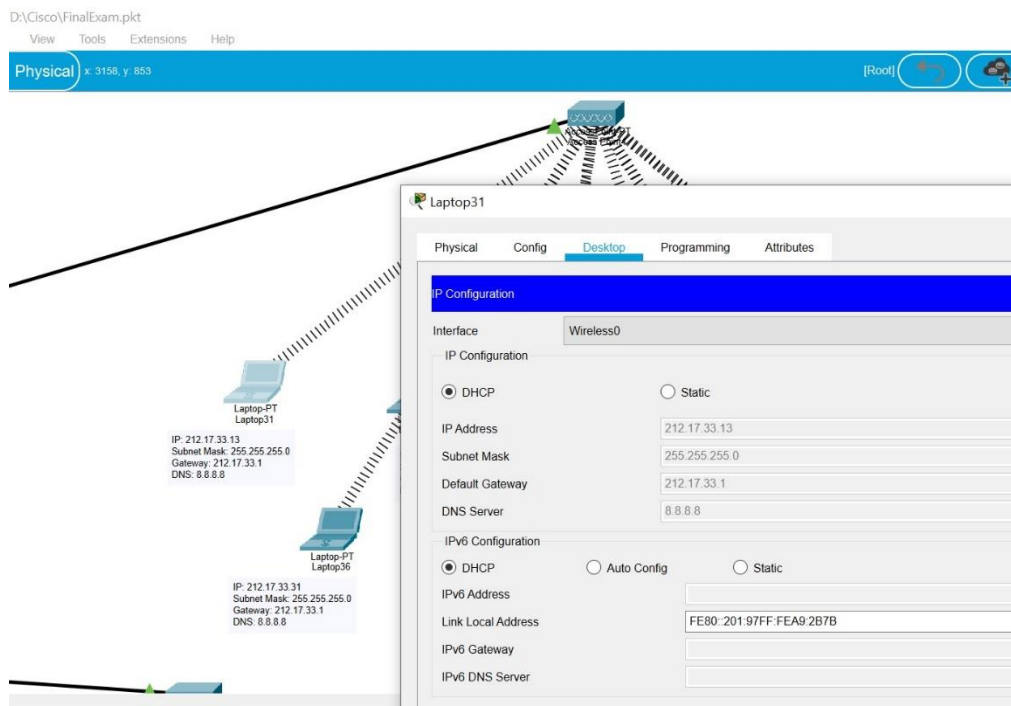
Access Point 3 (10 Wireless Laptop (Laptop 21 – Laptop 30))

Access Point 3 (Laptop IP Config using DHCP)

Access Point 4 (10 Wireless Laptop (Laptop 31 – Laptop 40))

Access Point 4 (Laptop IP Config using DHCP)

Checking:

- PC 1 Switch 1 to PC 2 Switch 1
- PC 3 Switch 1 to PC 16 Switch 2
- PC 17 Switch 2 to PC 18 Switch 2

Checking:

- PC 4 Switch 1 to Laptop 1 Access Point 1
- PC 19 Switch 2 to Laptop 2 Access Point 1
- Laptop 3 Access Point 1 to Laptop 4 Access Point 1
- Laptop 5 Access Point 1 to Laptop 11 Access Point 2

Checking:

- PC 5 Switch 1 to Laptop 12 Access Point 2
- PC 20 Switch 2 to Laptop 13 Access Point 2
- Laptop 14 Access Point 2 to Laptop 15 Access Point 2
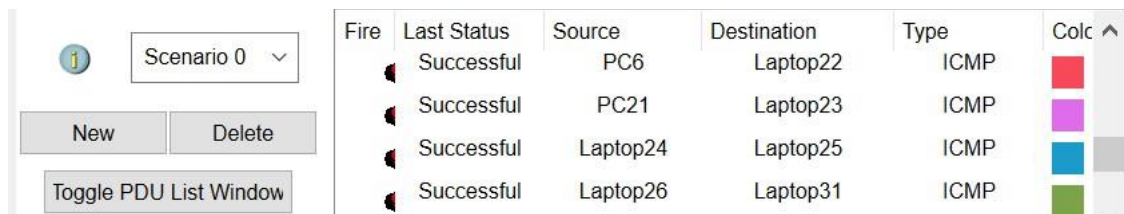- Laptop 16 Access Point 2 to Laptop 21 Access Point 3

Checking:

- PC 6 Switch 1 to Laptop 22 Access Point 3
- PC 21 Switch 2 to Laptop 23 Access Point 3
- Laptop 24 Access Point 3 to Laptop 25 Access Point 3
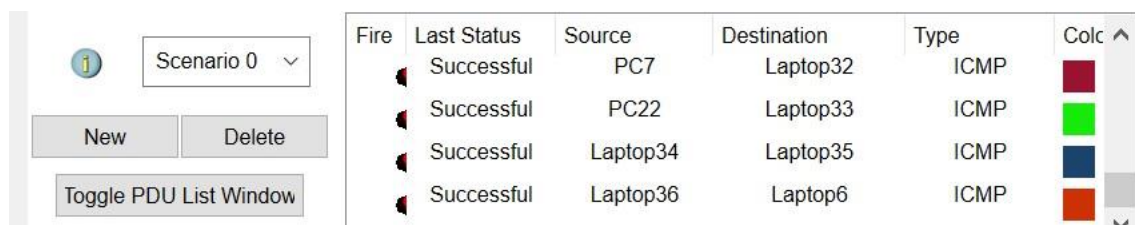- Laptop 26 Access Point 3 to Laptop 31 Access Point 4

Fire	Last Status	Source	Destination	Type	Color
	Successful	PC6	Laptop22	ICMP	
	Successful	PC21	Laptop23	ICMP	
	Successful	Laptop24	Laptop25	ICMP	
	Successful	Laptop26	Laptop31	ICMP	

Checking:

- PC 7 Switch 1 to Laptop 32 Access Point 4
- PC 22 Switch 2 to Laptop 33 Access Point 4
- Laptop 34 Access Point 4 to Laptop 35 Access Point 4
- Laptop 36 Access Point 4 to Laptop 6 Access Point 1

Fire	Last Status	Source	Destination	Type	Color
	Successful	PC7	Laptop32	ICMP	
	Successful	PC22	Laptop33	ICMP	
	Successful	Laptop34	Laptop35	ICMP	
	Successful	Laptop36	Laptop6	ICMP	

Cisco File:

https://drive.google.com/file/d/1C-SFqAQJjhJT0Mrk0PZ6Ey6QI0p_DJeO/view?usp=sharing