



COMPUTER NETWORK COURSE, SEM 2021-1

FINAL-TERM EXAMINATION

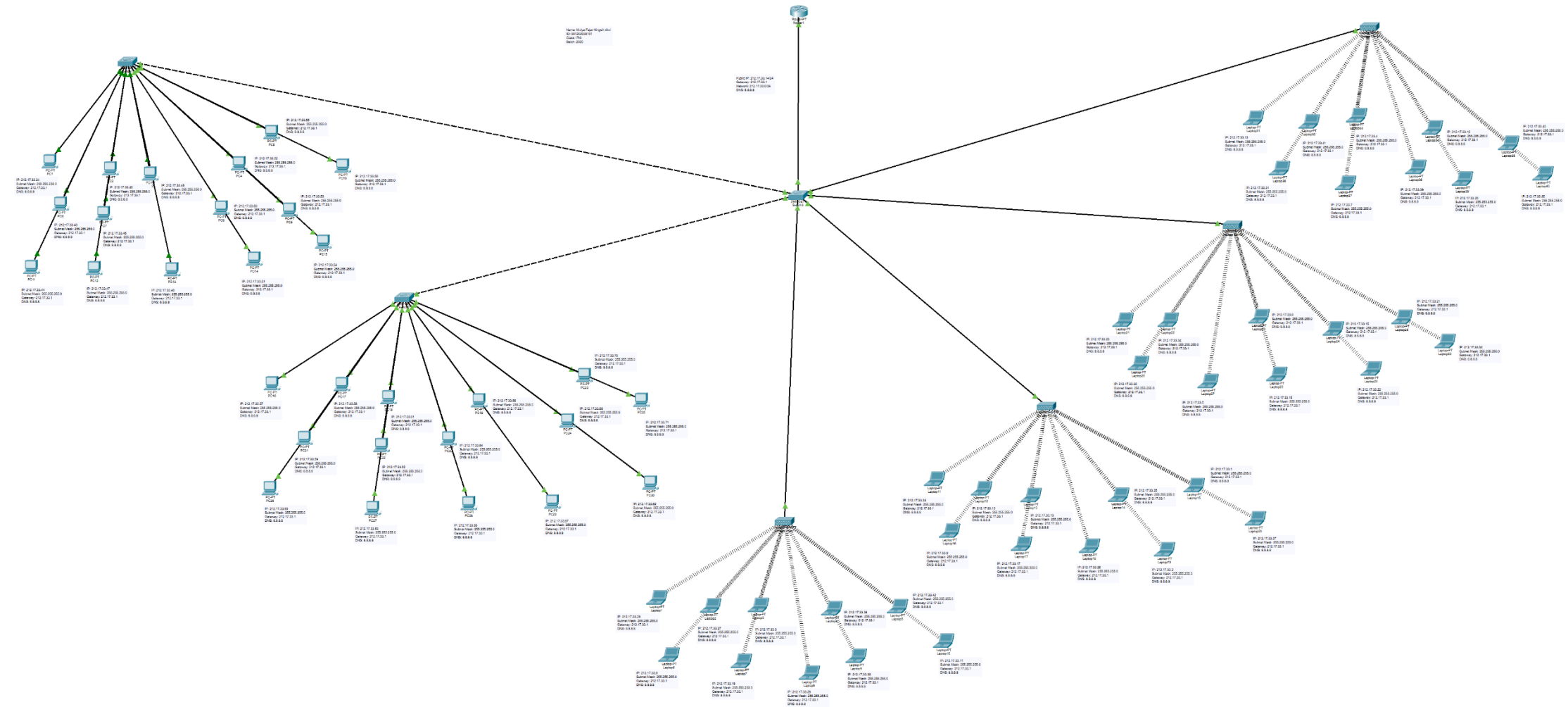
Submitted by:

Mulya Fajar Ningsih Alwi

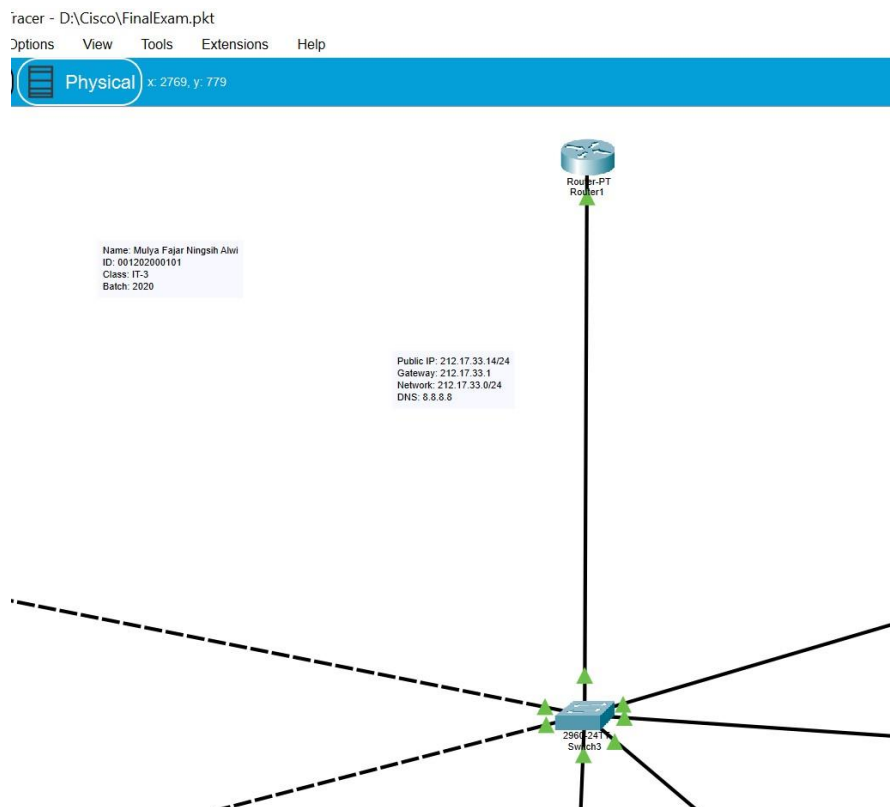
(001202000101)

IT-2020 CLASS 3

Topology Design (GROUP IV)



Router 1 and Switch 3



Router 1 CLI Config

Router1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
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
```

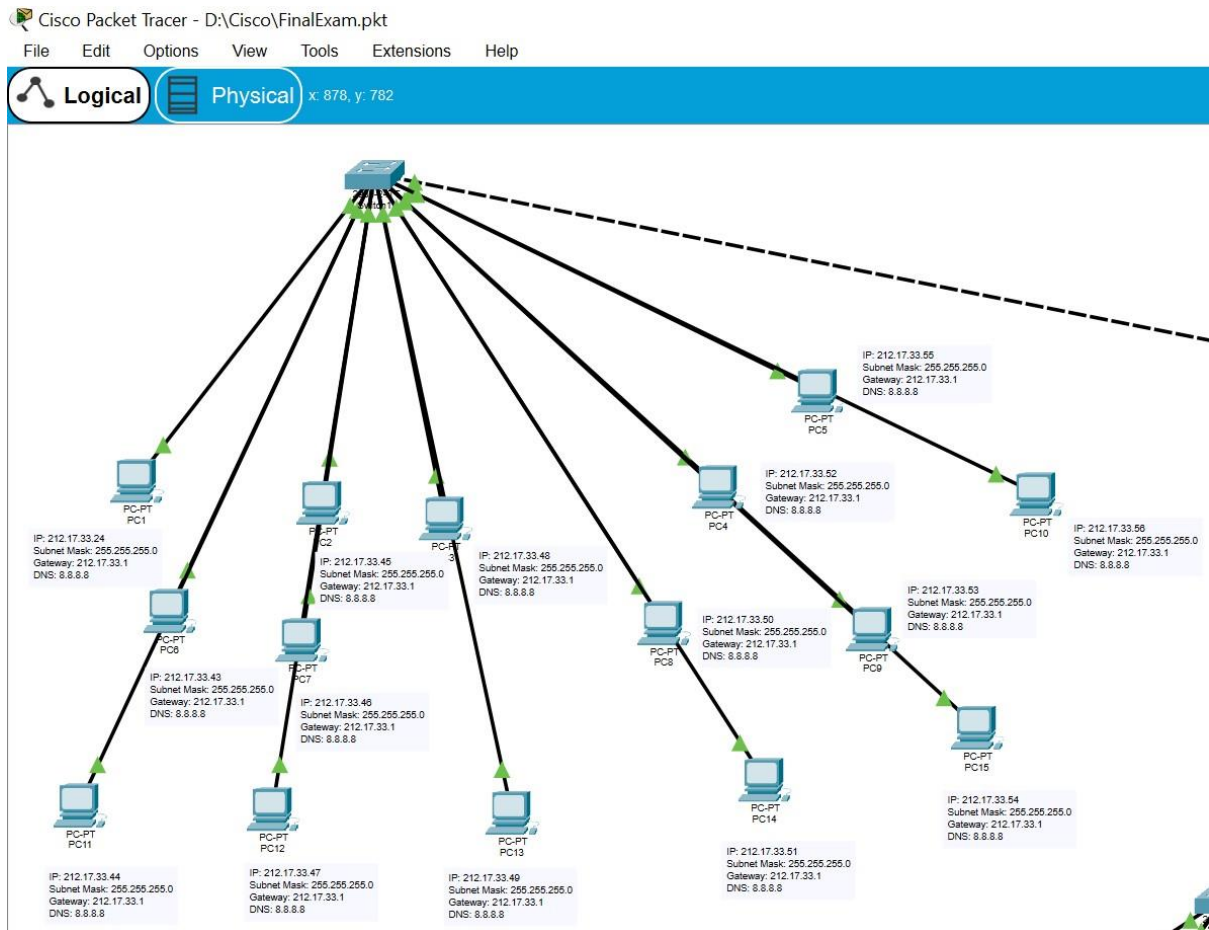
Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	212.17.33.14	YES	manual	up	up
FastEthernet1/0	unassigned	YES	unset	administratively down	down
Serial2/0	unassigned	YES	unset	administratively down	down
Serial3/0	unassigned	YES	unset	administratively down	down
FastEthernet4/0	unassigned	YES	unset	administratively down	down
FastEthernet5/0	unassigned	YES	unset	administratively down	down

Ctrl+F6 to exit CLI focus

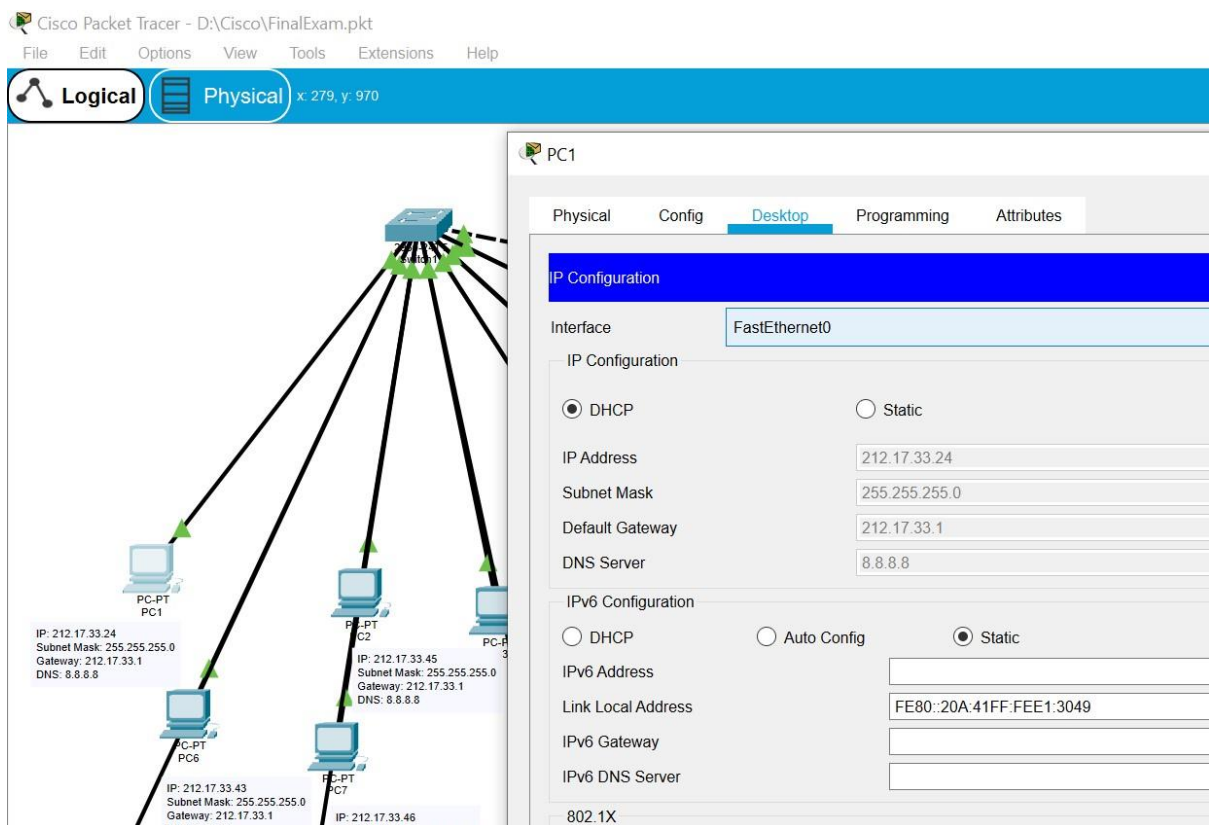
Copy Paste

☐ Top

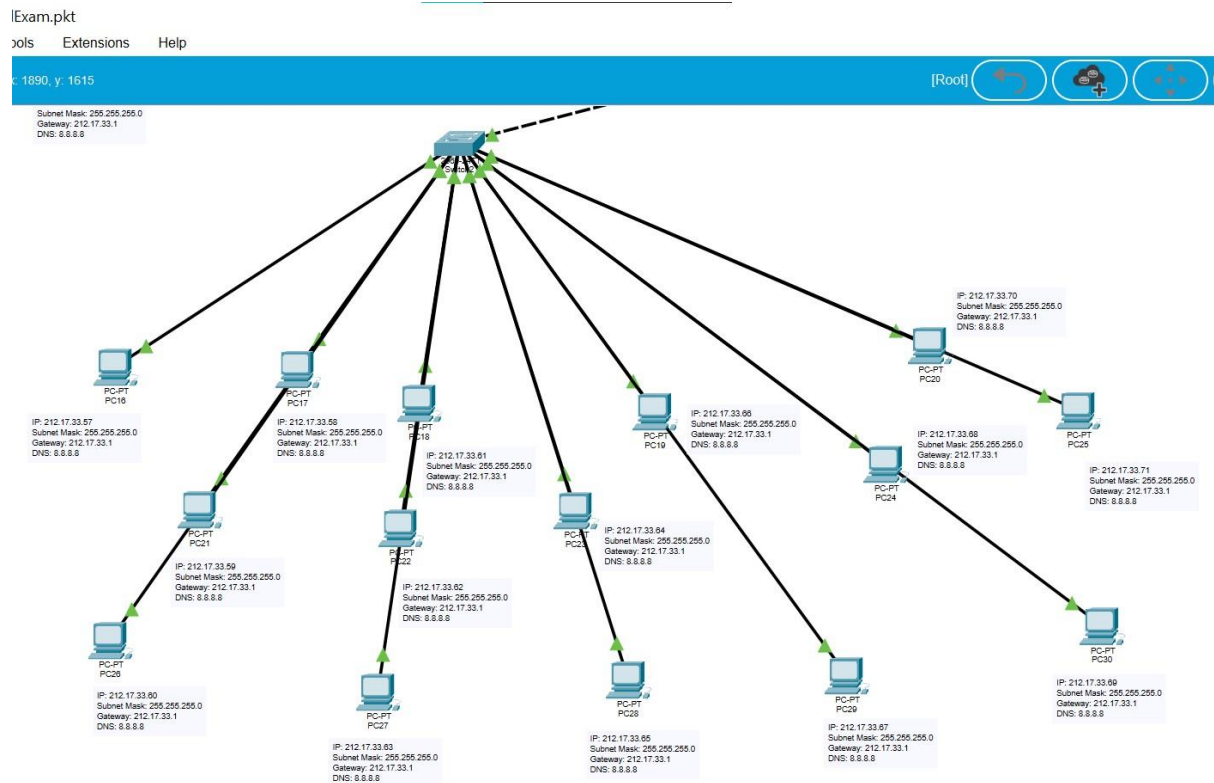
Switch 1 (15 Wired PC (PC 1 – PC 15))



Switch 1 (PC IP Config using DHCP)



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



Switch 2 (PC IP Config using DHCP)

Cisco Packet Tracer - D:\Cisco\FinalExam.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 709, y: 1524

PC16

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IP Address 212.17.33.57

Subnet Mask 255.255.255.0

Default Gateway 212.17.33.1

DNS Server 8.8.8.8

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::200:CFF:FE3E:D594

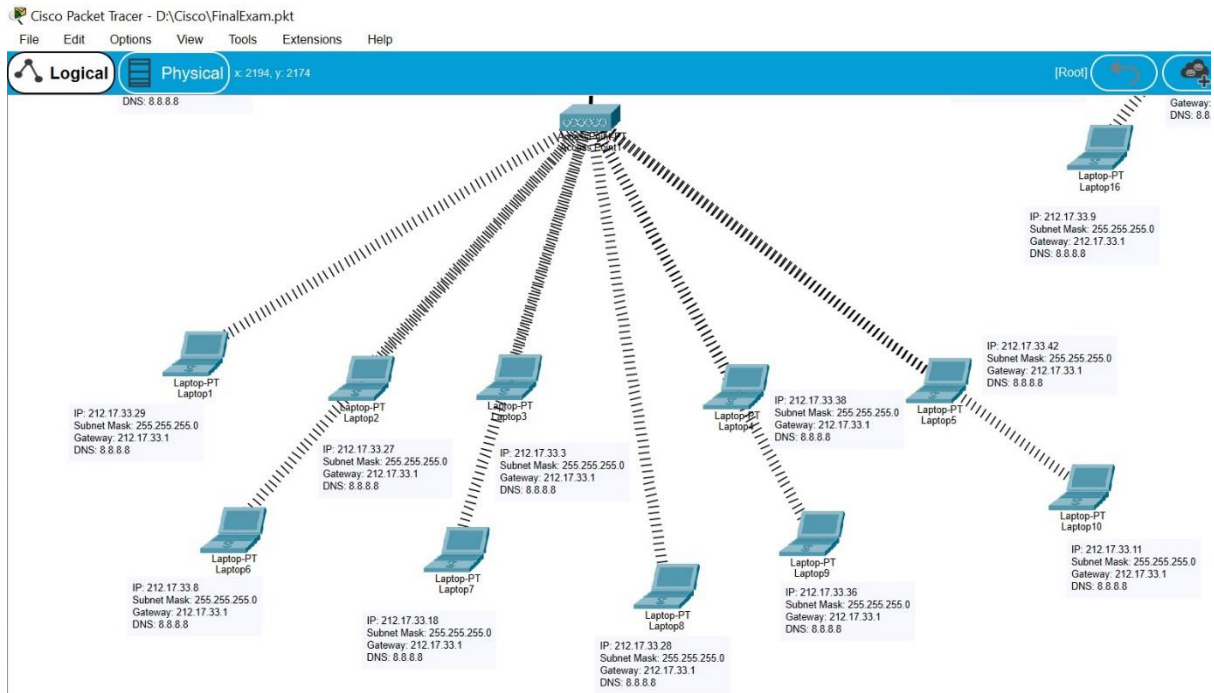
IPv6 Gateway

IPv6 DNS Server

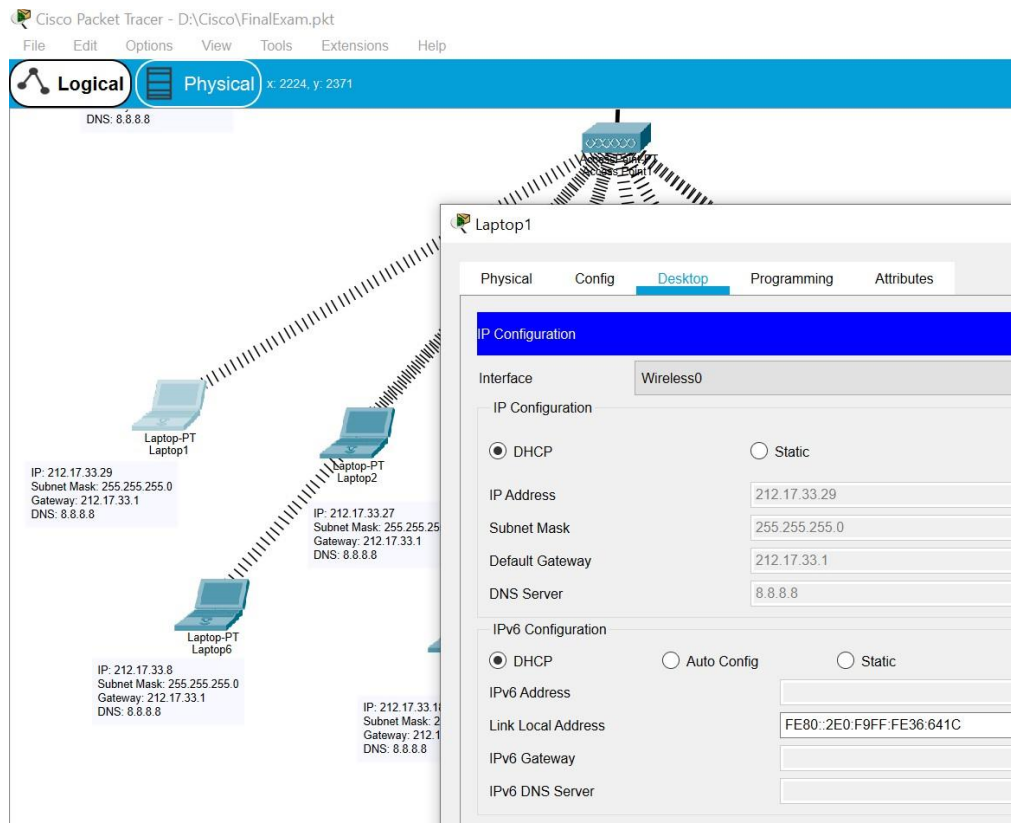
PC-PT PC16
IP: 212.17.33.57
Subnet Mask: 255.255.255.0
Gateway: 212.17.33.1
DNS: 8.8.8.8

PC-PT PC21
IP: 212.17.33.59
Subnet Mask: 255.255.255.0
Gateway: 212.17.33.1
DNS: 8.8.8.8

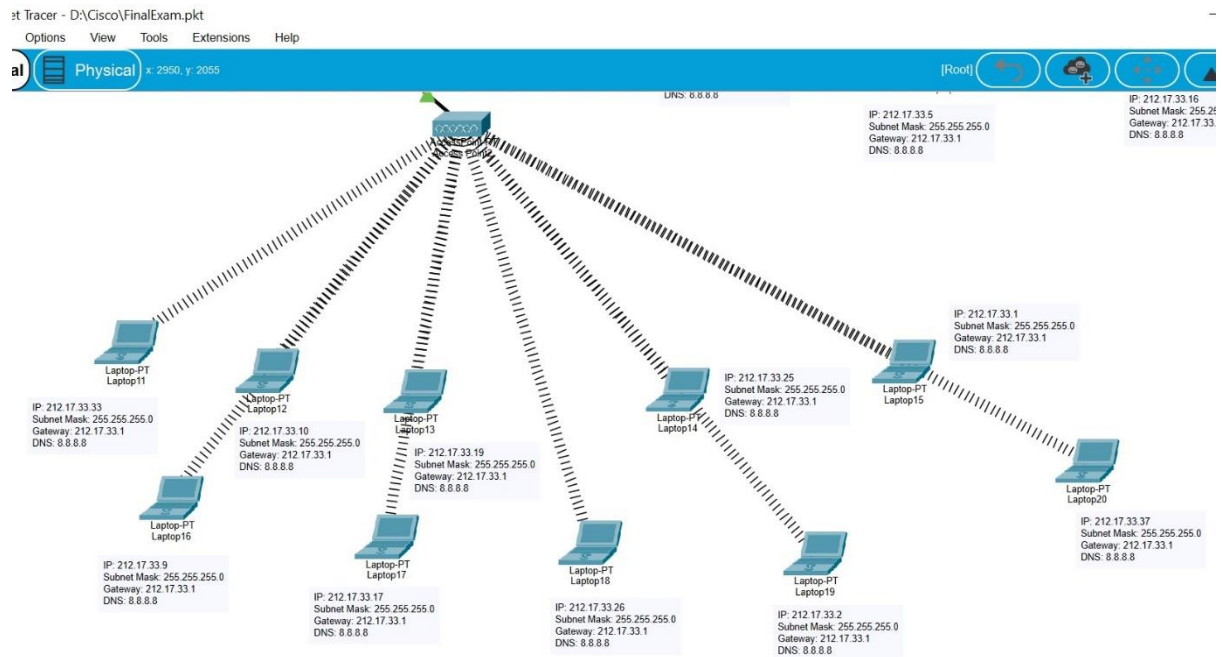
Access Point 1 (10 Wireless Laptop (Laptop 1 – Laptop 10))



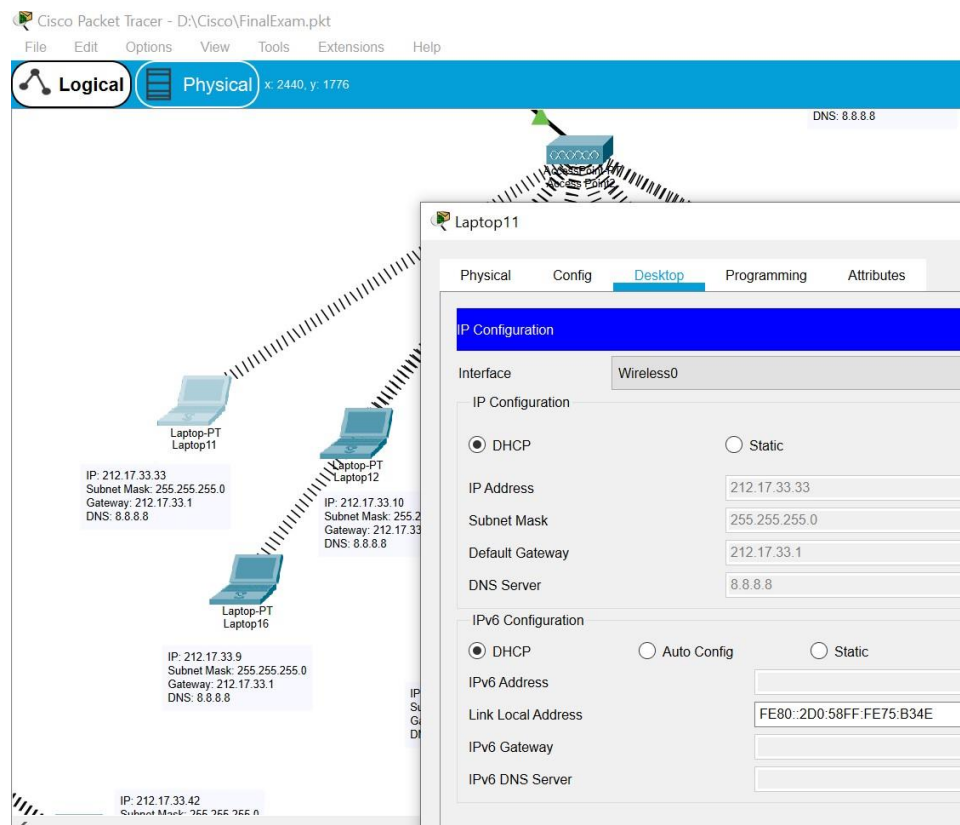
Access Point 1 (Laptop IP Config using DHCP)



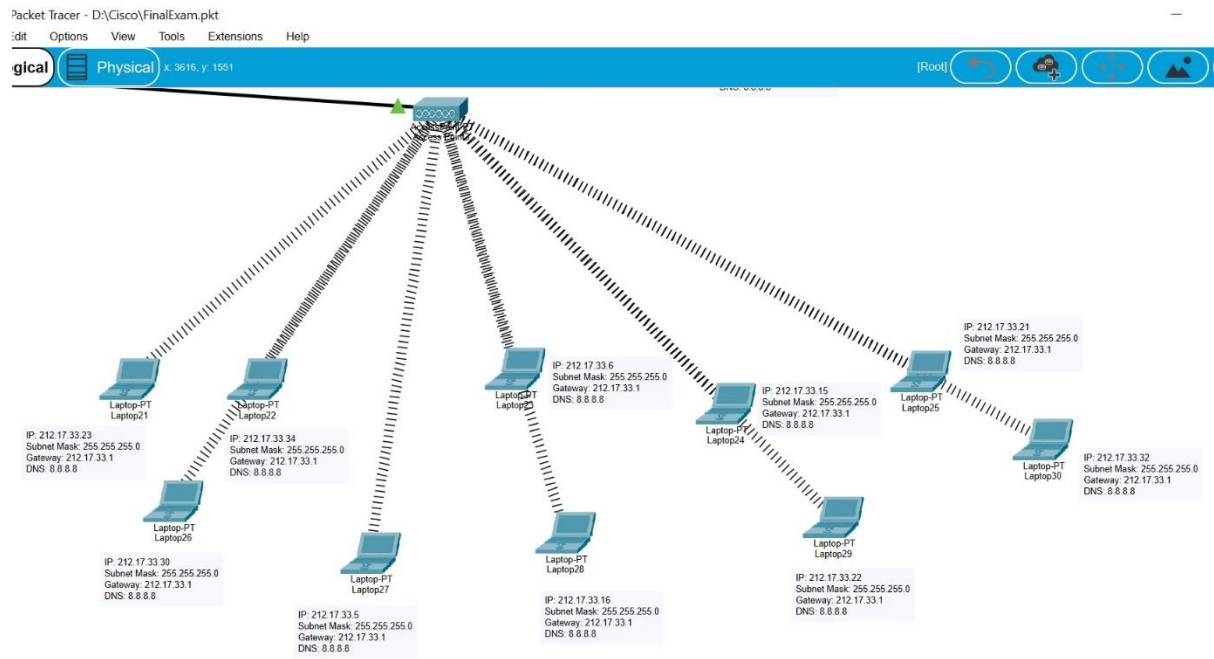
Access Point 2 (10 Wireless Laptop (Laptop 11 – Laptop 20))



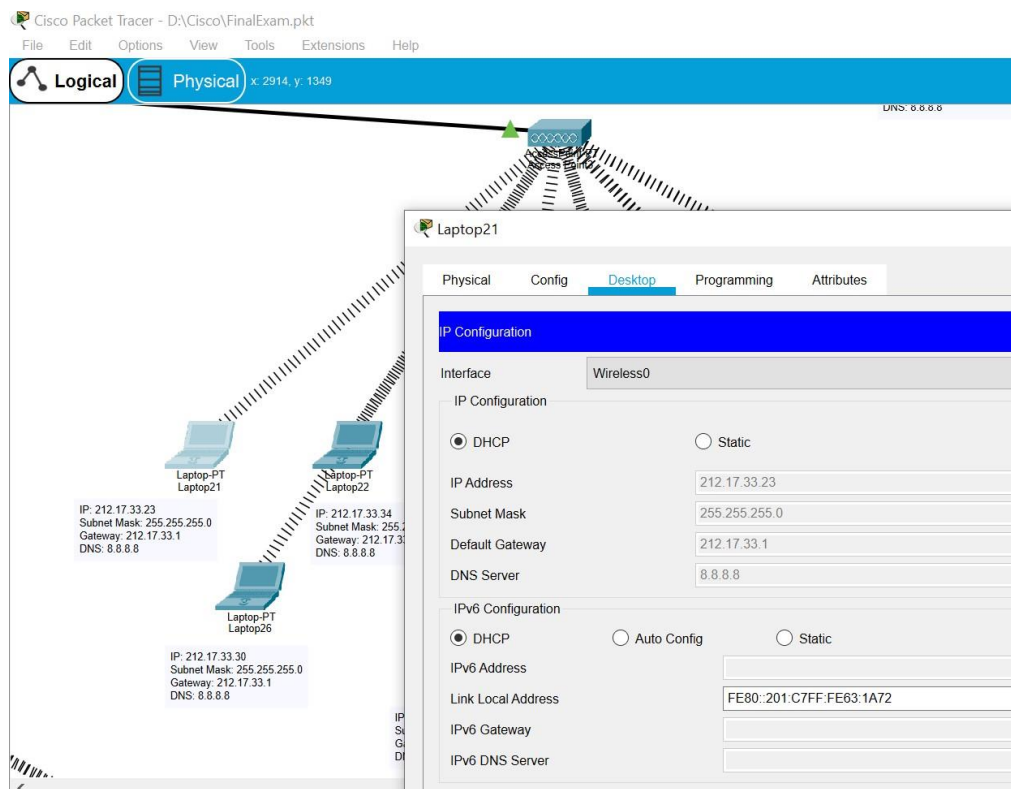
Access Point 2 (Laptop IP Config using DHCP)



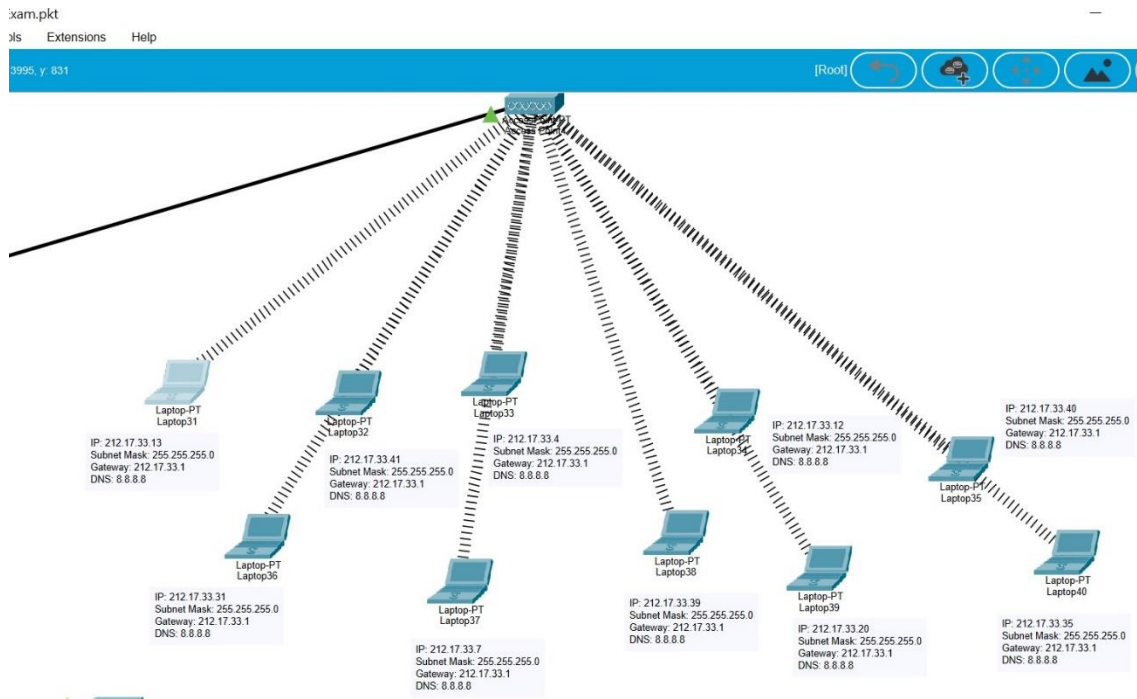
Access Point 3 (10 Wireless Laptop (Laptop 21 – Laptop 30))



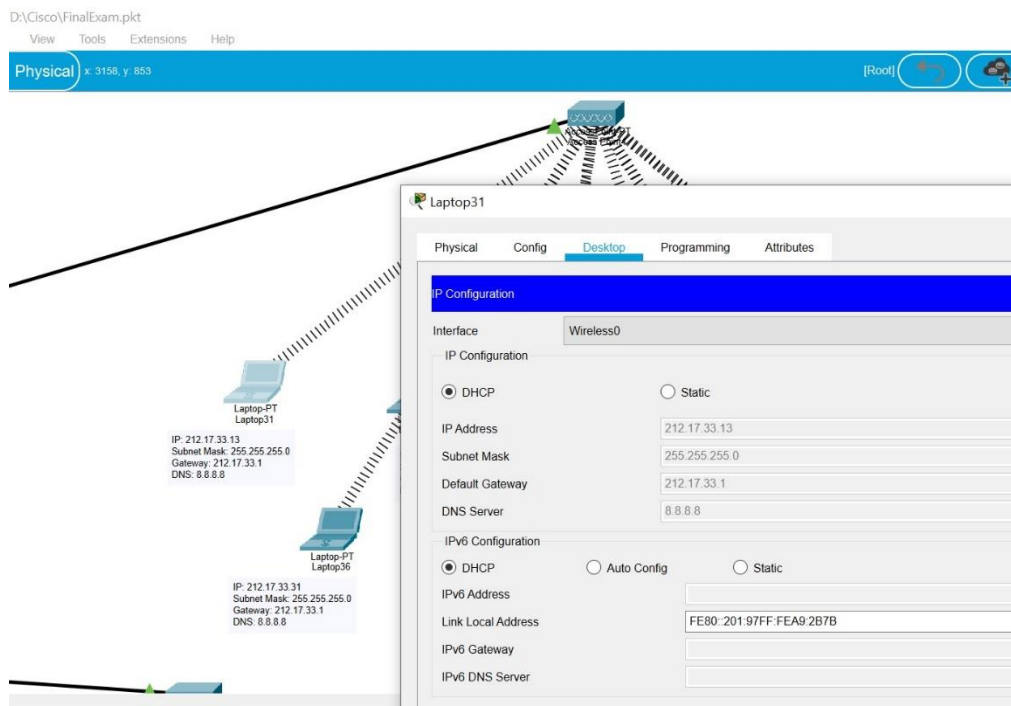
Access Point 3 (Laptop IP Config using DHCP)



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

	Scenario 0 ▾					
New	Delete					
Fire	Last Status	Source	Destination	Type	Colc	
	Successful	PC1	PC2	ICMP		
	Successful	PC3	PC16	ICMP		
	Successful	PC17	PC18	ICMP		










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

	Scenario 0 ▾					
New	Delete					
Toggle PDU List Window						
Fire	Last Status	Source	Destination	Type	Colc	
	Successful	PC4	Laptop1	ICMP		
	Successful	PC19	Laptop2	ICMP		
	Successful	Laptop3	Laptop4	ICMP		
	Successful	Laptop5	Laptop11	ICMP		

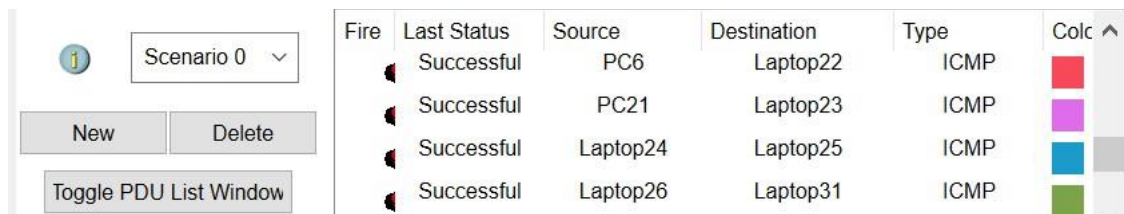
Checking:

- 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

	Scenario 0 ▾					
New	Delete					
Toggle PDU List Window						
Fire	Last Status	Source	Destination	Type	Colc	
	Successful	PC5	Laptop12	ICMP		
	Successful	PC20	Laptop13	ICMP		
	Successful	Laptop14	Laptop15	ICMP		
	Successful	Laptop16	Laptop21	ICMP		

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

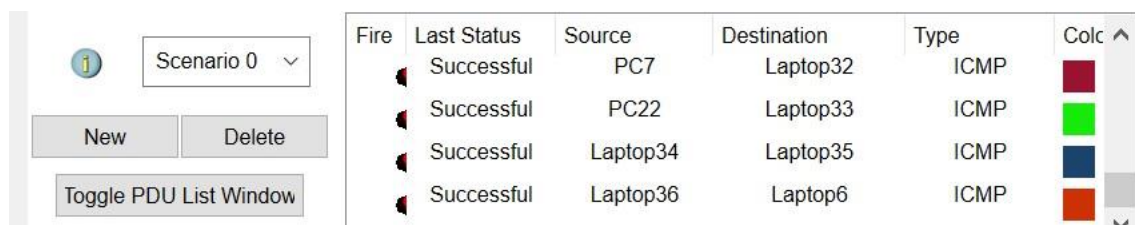


The screenshot shows a network simulation interface. On the left, there is a sidebar with a 'Scenario 0' dropdown menu, 'New' and 'Delete' buttons, and a 'Toggle PDU List Window' button. The main area displays a table of fire events.

Fire	Last Status	Source	Destination	Type	Colc
	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



The screenshot shows a network simulation interface. On the left, there is a sidebar with a 'Scenario 0' dropdown menu, 'New' and 'Delete' buttons, and a 'Toggle PDU List Window' button. The main area displays a table of fire events.

Fire	Last Status	Source	Destination	Type	Colc
	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