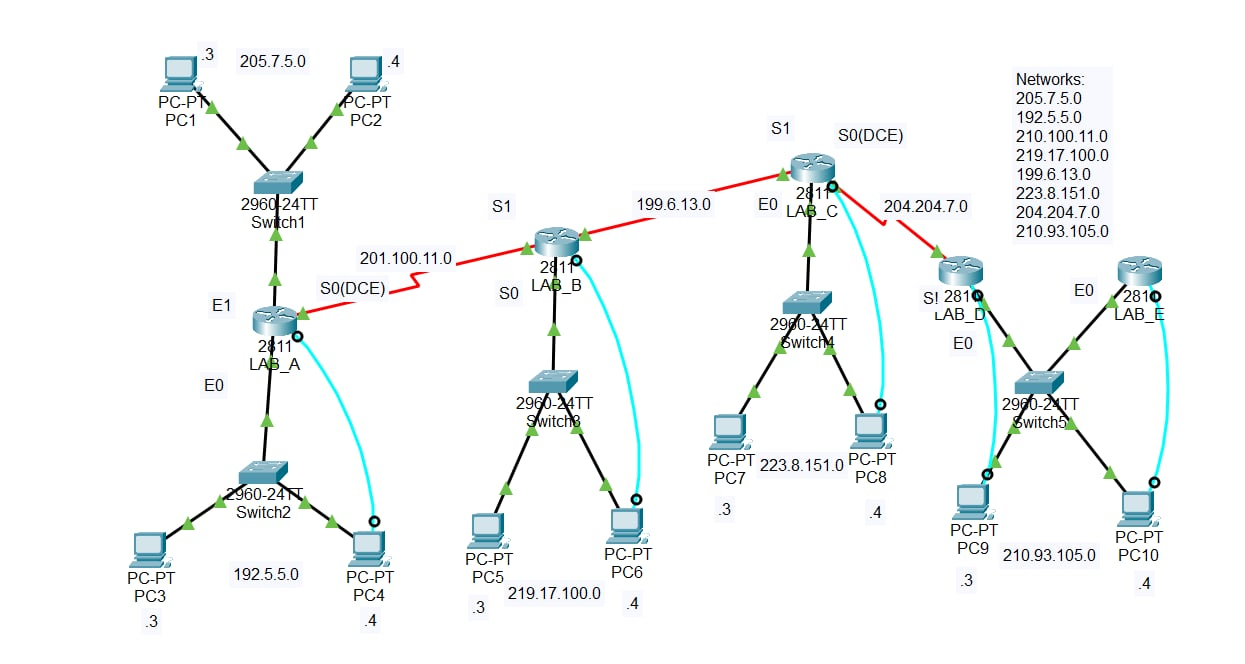
CISCO

Ray Lance C. Gregorio

Jane A. Barrameda

ROUTER LAB TOPOLOGY



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ROUTER  NAME | ROUTER  TYPE | E0 | E1 | S0 | S1 | SUBNET  MASK | ENABLE  PASSWORD | VTY  PASSWORD |
| LAB\_A | 1841 | 192.5.5.1 | 205.7.5.1 | 201.100.11.1 | - | 255.255.255.0 | class | cisco |
| LAB\_B | 1841 | 219.17.100.1 | 205.7.5.1 | 199.6.13.1 | 201.100.11.2 | 255.255.255.0 | class | cisco |
| LAB\_C | 1841 | 223.8.151.1 | 205.7.5.1 | 204.204.7.1 | 199.6.13.2 | 255.255.255.0 | class | cisco |
| LAB\_D | 1841 | 210.93.105.1 | 205.7.5.1 | - | 204.204.7.2 | 255.255.255.0 | class | cisco |
| LAB\_E | 1841 | 210.93.105.2 | 205.7.5.1 | - | - | 255.255.255.0 | class | cisco |

LAB\_A ROUTER

Hostname configuration:

Router> enable

Router# configure terminal

Router(config)# hostname LAB\_A

LAB\_A(config)# exit

Router interface configuration:

LAB\_A# configure terminal

LAB\_A(config)# interface fa0/0

LAB\_A(config-if)# ip address 205.7.5.1 255.255.255.0

LAB\_A(config-if)# no shutdown

LAB\_A(config-if)# exit

LAB\_A(config)# interface fa0/1

LAB\_A(config-if)# ip address 192.5.5.1 255.255.255.0

LAB\_A(config-if)# no shutdown

LAB\_A(config-if)# exit

LAB\_A(config)# interface se0/1/0

LAB\_A(config-if)# ip address 201.100.11.1 255.255.255.0

LAB\_A(config-if)# no shutdown

LAB\_A(config-if)# exit

Line configuration mode:

LAB\_A# configure terminal

LAB\_A(config)# line con 0

LAB\_A(config-line)# password cisco

LAB\_A(config-line)# login

LAB\_A(config-line)# exit

LAB\_A(config)# line vty 0 4

LAB\_A(config-line)# password cisco

LAB\_A(config-line)# login

LAB\_A(config-line)# exit

LAB\_A(config)# enable password cisco

LAB\_A(config)# enable secret class

LAB\_A(config)# exit

Router RIP:

LAB\_A# configure terminal

LAB\_A(config)# router rip

LAB\_A(config-router)# network 205.7.5.0

LAB\_A(config-router)# network 192.5.5.0

LAB\_A(config-router)# network 201.100.11.0

LAB\_A(config-router)# network 219.17.100.0

LAB\_A(config-router)# network 199.6.13.0

LAB\_A(config-router)# network 223.8.151.0

LAB\_A(config-router)# network 204.204.7.0

LAB\_A(config-router)# network 210.93.105.0

LAB\_A(config-router)# end

LAB\_B ROUTER

Hostname configuration:

Router> enable

Router# configure terminal

Router(config)# hostname LAB\_B

LAB\_B(config)# exit

Router interface configuration:

LAB\_B# configure terminal

LAB\_B(config)# interface fa0/0

LAB\_B(config-if)# ip address 219.17.100.1 255.255.255.0

LAB\_B(config-if)# no shutdown

LAB\_B(config-if)# exit

LAB\_B(config)# interface se0/1/0

LAB\_B(config-if)# ip address 201.100.11.2 255.255.255.0

LAB\_B(config-if)# no shutdown

LAB\_B(config-if)# exit

LAB\_B(config)# interface se0/1/1

LAB\_B(config-if)# ip address 199.6.13.1 255.255.255.0

LAB\_B(config-if)# no shutdown

LAB\_B(config-if)# exit

Line configuration mode:

LAB\_B# configure terminal

LAB\_B(config)# line con 0

LAB\_B(config-line)# password cisco

LAB\_B(config-line)# login

LAB\_B(config-line)# exit

LAB\_B(config)# line vty 0 4

LAB\_B(config-line)# password cisco

LAB\_B(config-line)# login

LAB\_B(config-line)# exit

LAB\_B(config)# enable password cisco

LAB\_B(config)# enable secret class

LAB\_B(config)# exit

Router RIP:

LAB\_B# configure terminal

LAB\_B(config)# router rip

LAB\_B(config-router)# network 205.7.5.0

LAB\_B(config-router)# network 192.5.5.0

LAB\_B(config-router)# network 201.100.11.0

LAB\_B(config-router)# network 219.17.100.0

LAB\_B(config-router)# network 199.6.13.0

LAB\_B(config-router)# network 223.8.151.0

LAB\_B(config-router)# network 204.204.7.0

LAB\_B(config-router)# network 210.93.105.0

LAB\_B(config-router)# end

LAB\_C ROUTER

Hostname configuration:

Router> enable

Router# configure terminal

Router(config)# hostname LAB\_C

LAB\_C(config)# exit

Router interface configuration:

LAB\_C# configure terminal

LAB\_C(config)# interface fa0/0

LAB\_C(config-if)# ip address 223.8.151.1 255.255.255.0

LAB\_C(config-if)# no shutdown

LAB\_C(config-if)# exit

LAB\_C(config)# interface se0/1/0

LAB\_C(config)# ip address 199.6.13.2 255.255.255.0

LAB\_C(config-if)# no shutdown

LAB\_C(config-if)# exit

LAB\_C(config)# interface se0/1/1

LAB\_C(config)# ip address 204.204.7.1 255.255.255.0

LAB\_C(config-if)# no shutdown

LAB\_C(config-if)# exit

Line configuration mode:

LAB\_C# configure terminal

LAB\_C(config)# line con 0

LAB\_C(config-line)# password cisco

LAB\_C(config-line)# login

LAB\_C(config-line)# exit

LAB\_C(config)# line vty 0 4

LAB\_C(config-line)# password cisco

LAB\_C(config-line)# login

LAB\_C(config-line)# exit

LAB\_C(config)# enable password cisco

LAB\_C(config)# enable secret class

LAB\_C(config)# exit

Router RIP:

LAB\_C# configure terminal

LAB\_C(config)# router rip

LAB\_C(config-router)# network 205.7.5.0

LAB\_C(config-router)# network 192.5.5.0

LAB\_C(config-router)# network 201.100.11.0

LAB\_C(config-router)# network 219.17.100.0

LAB\_C(config-router)# network 199.6.13.0

LAB\_C(config-router)# network 223.8.151.0

LAB\_C(config-router)# network 204.204.7.0

LAB\_C(config-router)# network 210.93.105.0

LAB\_C(config-router)# end

LAB\_D ROUTER

Hostname configuration:

Router> enable

Router# configure terminal

Router(config)# hostname LAB\_D

LAB\_D(config)# exit

Router interface configuration:

LAB\_D# configure terminal

LAB\_D(config)# interface se0/1/0

LAB\_D(config-if)# ip address 204.204.7.2 255.255.255.0

LAB\_D(config-if)# no shutdown

LAB\_D(config-if)# exit

LAB\_D(config)# interface fa0/0

LAB\_D(config-if)# ip address 210.93.105.1 255.255.255.0

LAB\_D(config-if)# no shutdown

LAB\_D(config-if)# exit

Line configuration mode:

LAB\_D# configure terminal

LAB\_D(config)# line con 0

LAB\_D(config-line)# password cisco

LAB\_D(config-line)# login

LAB\_D(config-line)# exit

LAB\_D(config)# line vty 0 4

LAB\_D(config-line)# password cisco

LAB\_D(config-line)# login

LAB\_D(config-line)# exit

LAB\_D(config)# enable password cisco

LAB\_D(config)# enable secret class

LAB\_D(config)# exit

Router RIP:

LAB\_D# configure terminal

LAB\_D(config)# router rip

LAB\_D(config-router)# network 205.7.5.0

LAB\_D(config-router)# network 192.5.5.0

LAB\_D(config-router)# network 201.100.11.0

LAB\_D(config-router)# network 219.17.100.0

LAB\_D(config-router)# network 199.6.13.0

LAB\_D(config-router)# network 223.8.151.0

LAB\_D(config-router)# network 204.204.7.0

LAB\_D(config-router)# network 210.93.105.0

LAB\_D(config-router)# end

LAB\_E ROUTER

Hostname configuration:

Router> enable

Router# configure terminal

Router(config)# hostname LAB\_E

LAB\_E(config)# exit

Router interface configuration:

LAB\_E# configure terminal

LAB\_E(config)# interface fa0/0

LAB\_E(config-if)# ip address 210.93.105.2 255.255.255.0

LAB\_E(config-if)# no shutdown

LAB\_E(config-if)# exit

Line configuration mode:

LAB\_E# configure terminal

LAB\_E(config)# line con 0

LAB\_E(config-line)# password cisco

LAB\_E(config-line)# login

LAB\_E(config-line)# exit

LAB\_E(config)# line vty 0 4

LAB\_E(config-line)# password cisco

LAB\_E(config-line)# login

LAB\_E(config-line)# exit

LAB\_E(config)# enable password cisco

LAB\_E(config)# enable secret class

LAB\_E(config)# exit

Router RIP:

LAB\_E# configure terminal

LAB\_E(config)# router rip

LAB\_E(config-router)# network 205.7.5.0

LAB\_E(config-router)# network 192.5.5.0

LAB\_E(config-router)# network 201.100.11.0

LAB\_E(config-router)# network 219.17.100.0

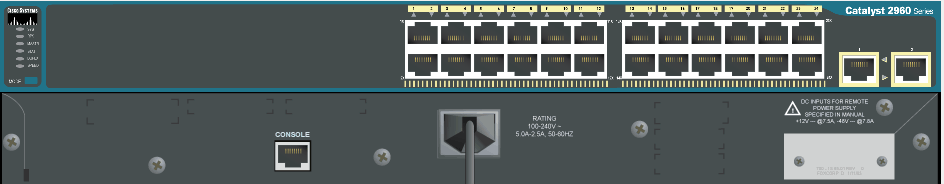
LAB\_E(config-router)# network 199.6.13.0

LAB\_E(config-router)# network 223.8.151.0

LAB\_E(config-router)# network 204.204.7.0

LAB\_E(config-router)# network 210.93.105.0

LAB\_E(config-router)# end



To console

IP: 205.7.5.3

Subnet Mask: 255.255.255.0

Gateway: 205.7.5.1

**220V**

**220V**

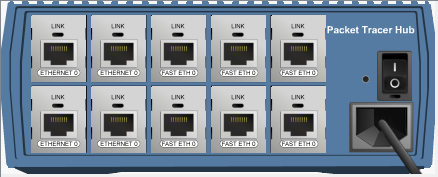
**220V**

**220V**

**220V**

**220V**

192.5.5.1



IP: 192.5.5.2

Subnet Mask: 255.255.255.0

Gateway: 192.5.5.1

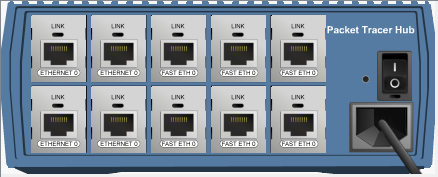
To console

205.7.5.1

**LAB\_A**

201.100.11.1

**220V**



IP: 219.17.100.3

Subnet Mask: 255.255.255.0

Gateway: 219.17.100.1

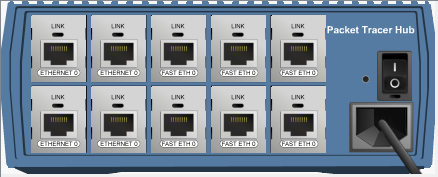
To console

219.17.100.1

201.100.11.2

**LAB\_B**

199.6.13.1



IP: 223.8.151.3

Subnet Mask: 255.255.255.0

Gateway: 223.8.151.1

To console

**220V**



223.8.151.1

199.6.13.2

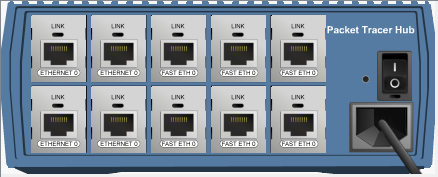
**LAB\_C**

204.204.7.1

IP: 210.93.105.3

Subnet Mask: 255.255.255.0

Gateway: 210.93.105.1



**220V**

To console

210.93.105.1

204.204.7.2



**LAB\_D**

IP: 210.93.105.4

Subnet Mask: 255.255.255.0

Gateway: 210.93.105.1

To console

210.93.105.2



**LAB\_E**

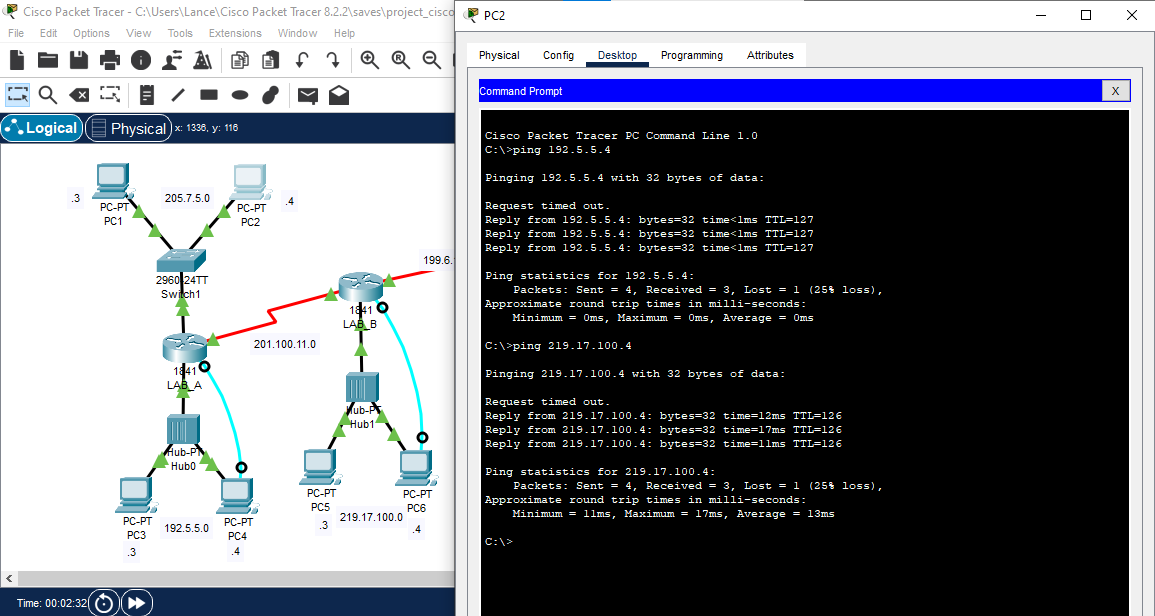
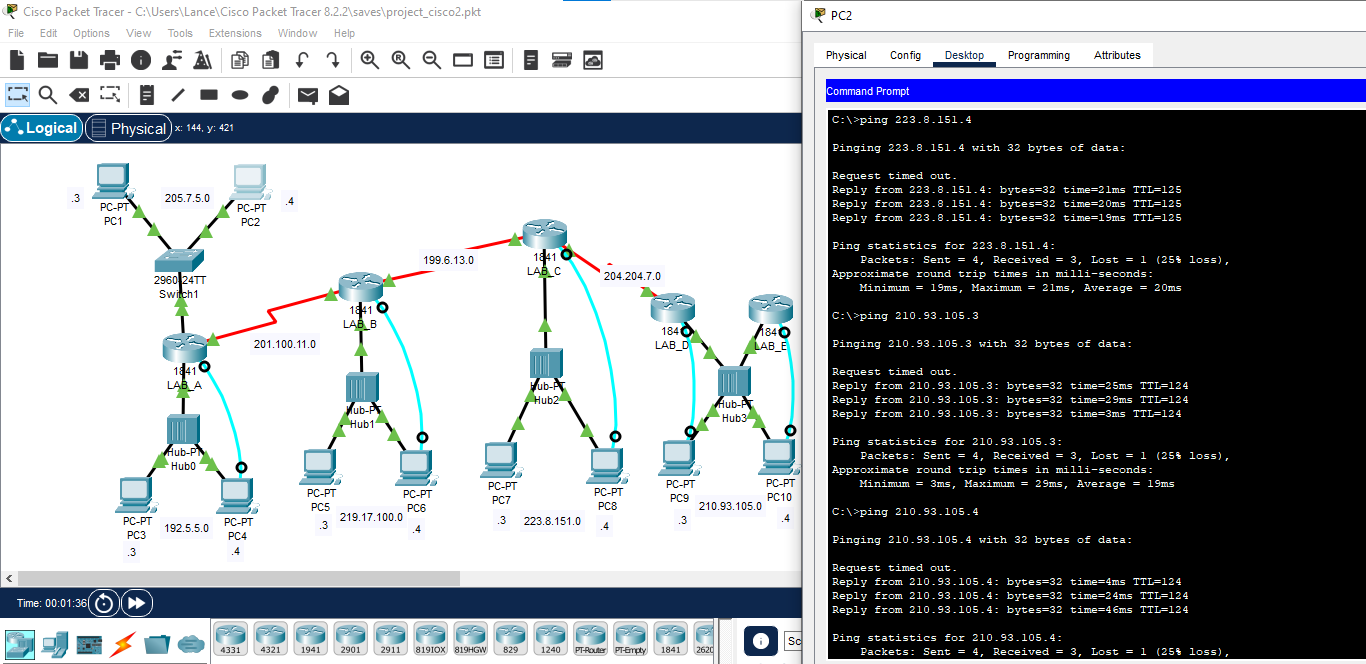
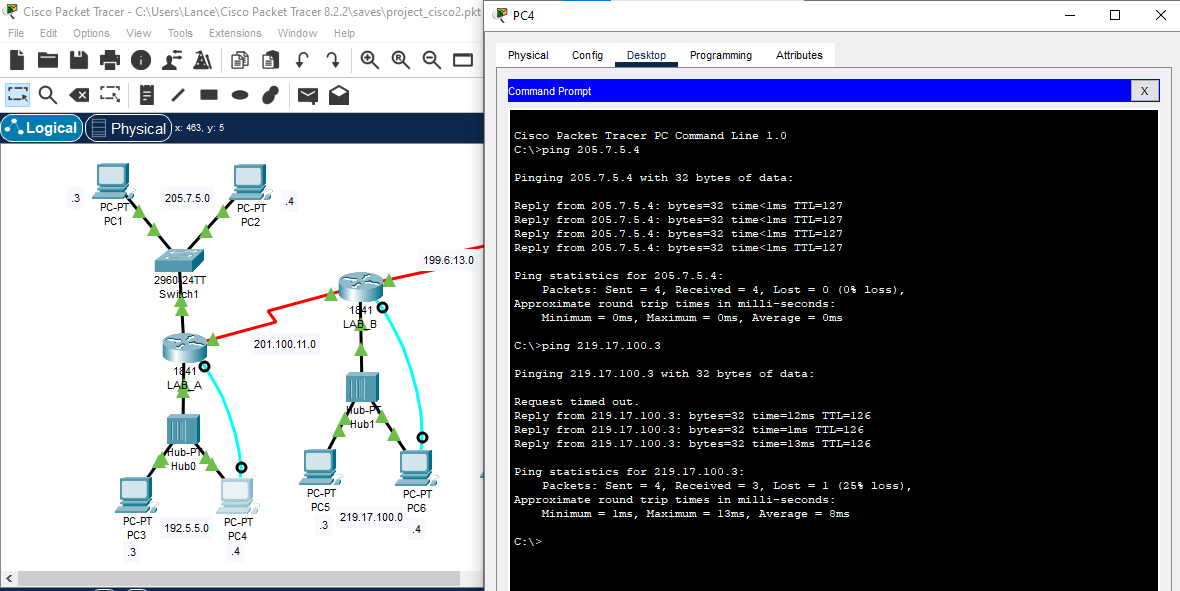
UTP Straight Cable

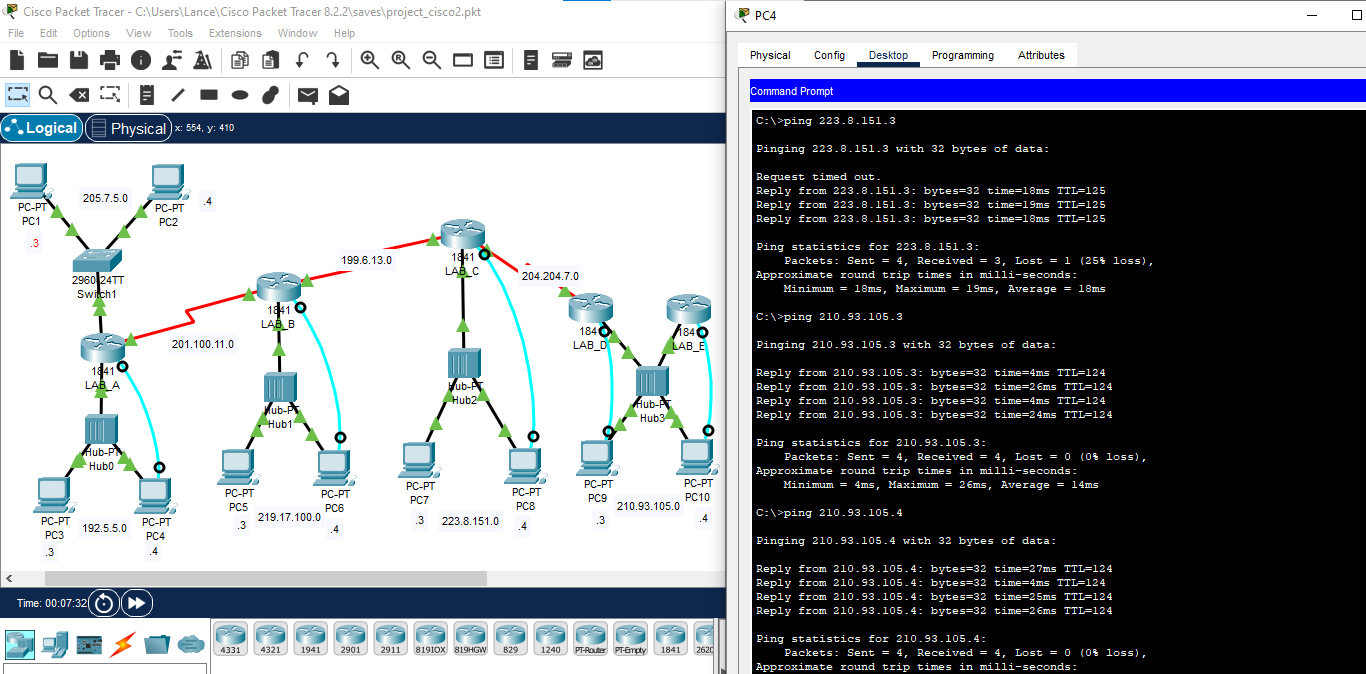
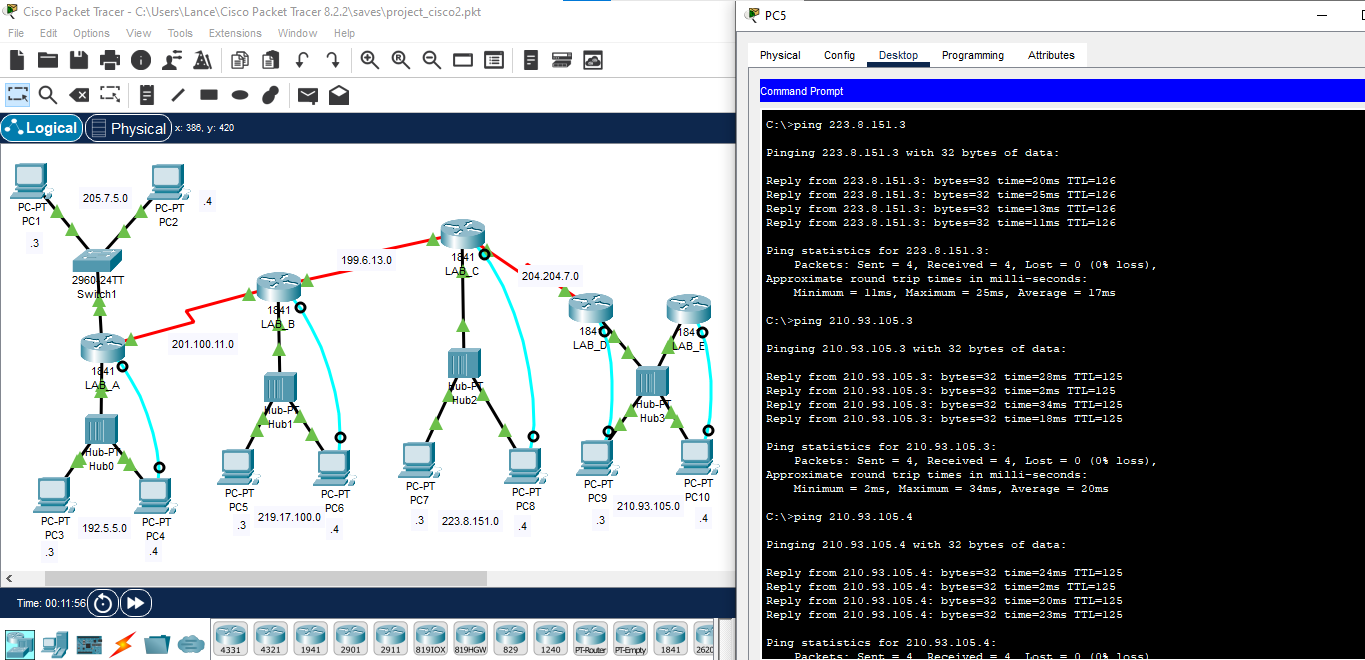
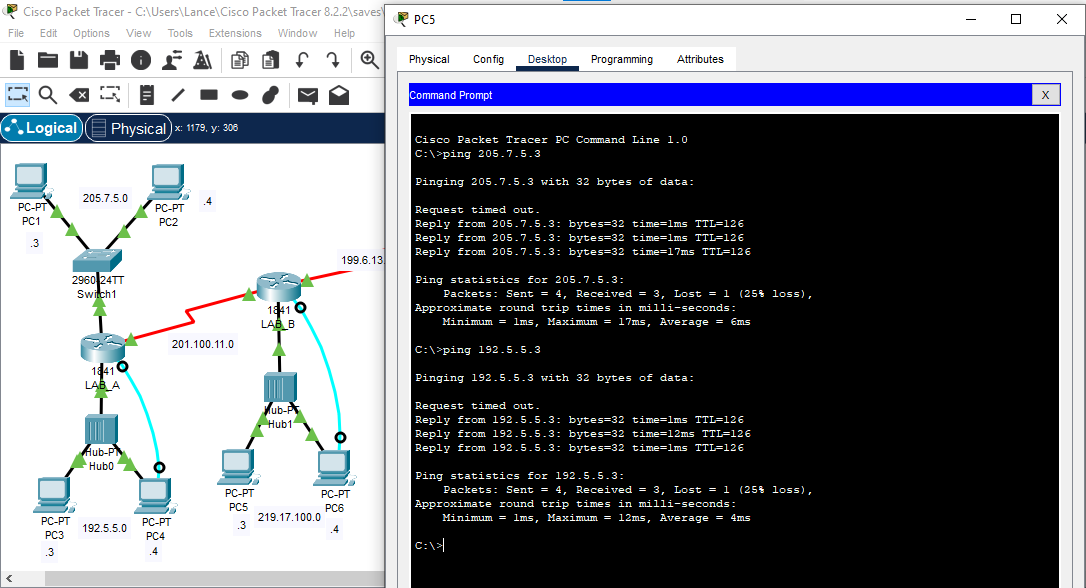
Serial Cable

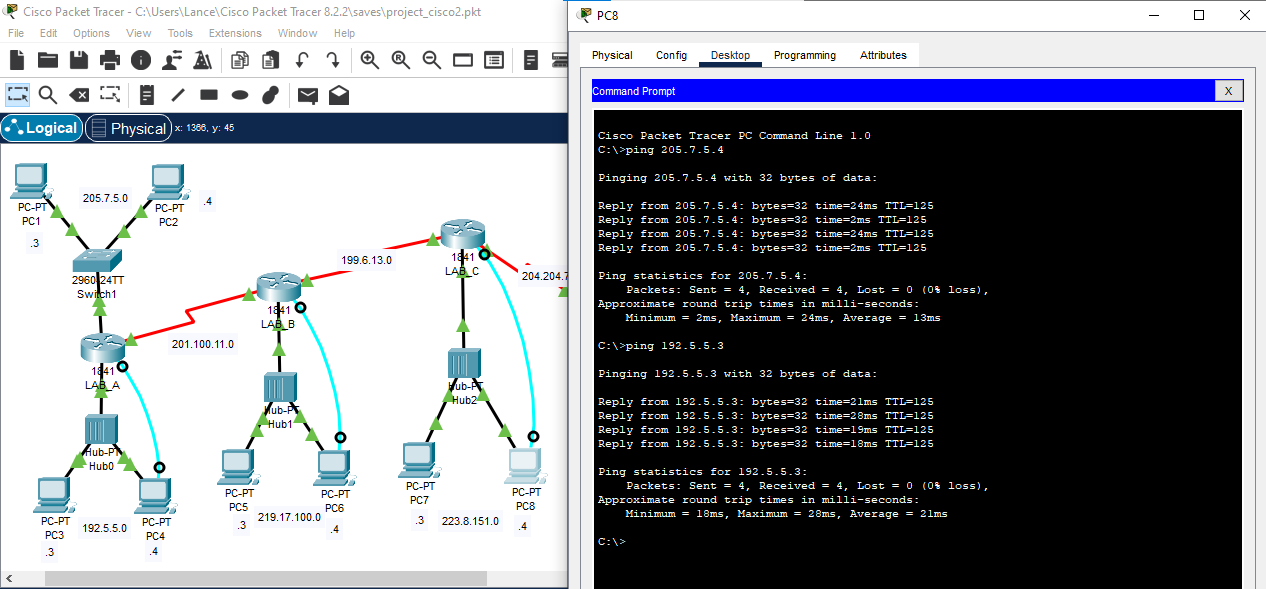
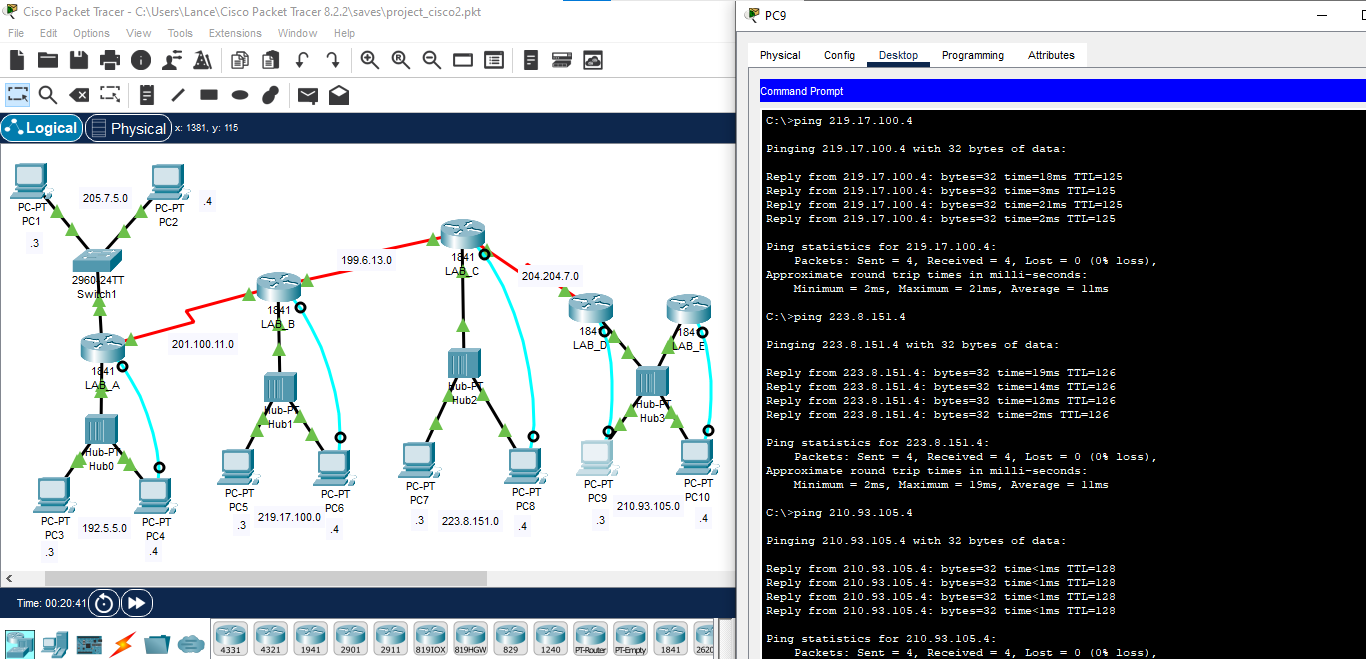
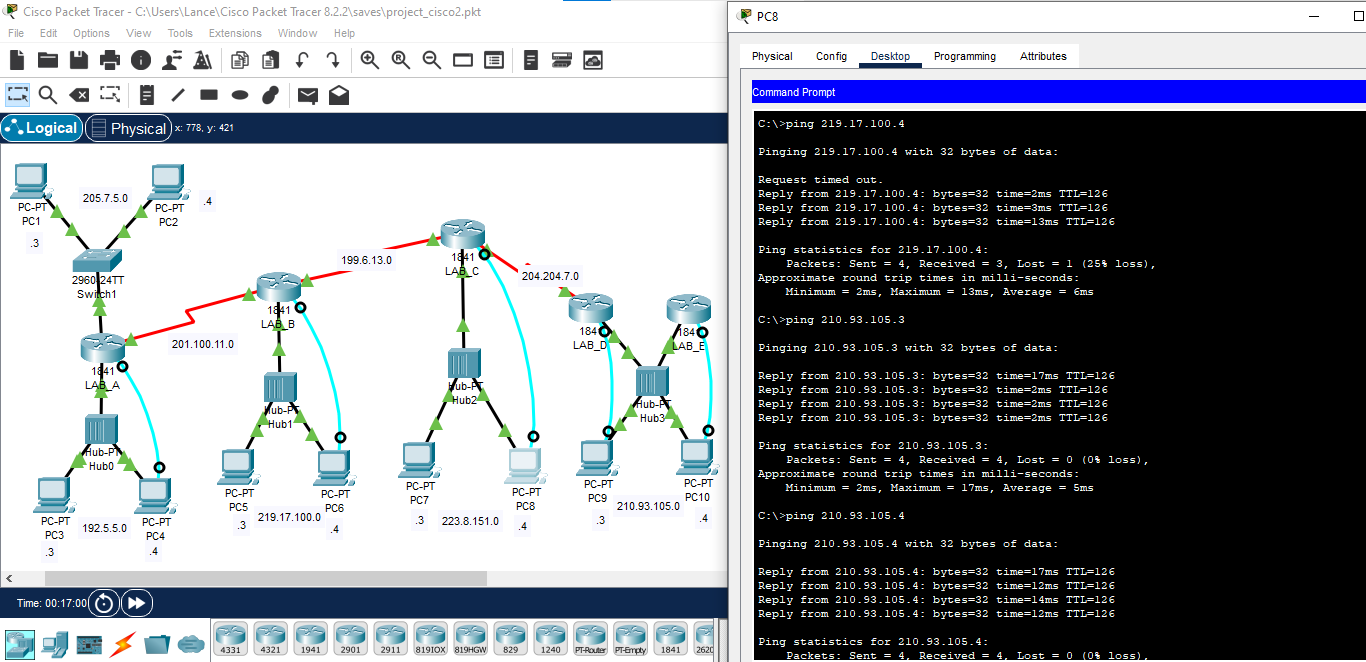
Console Cable

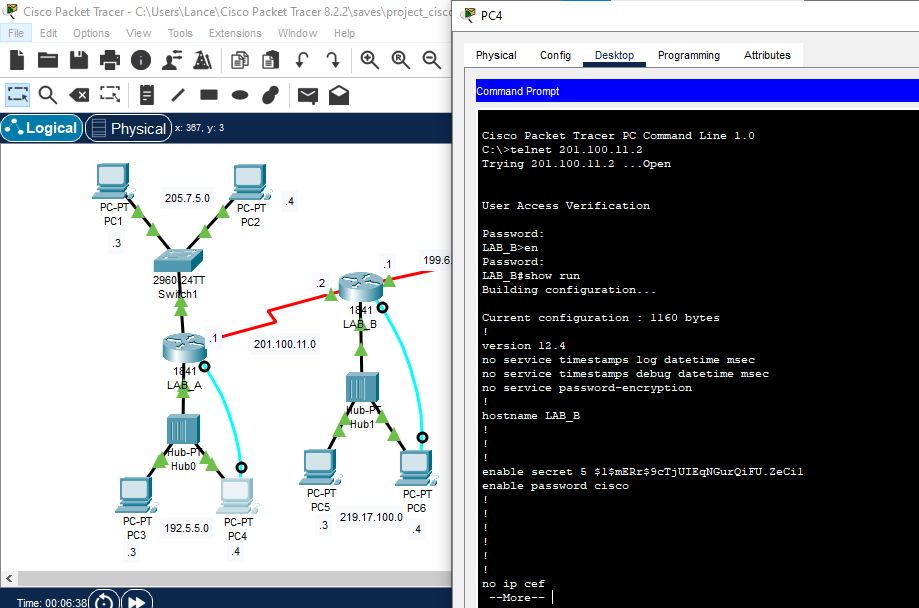
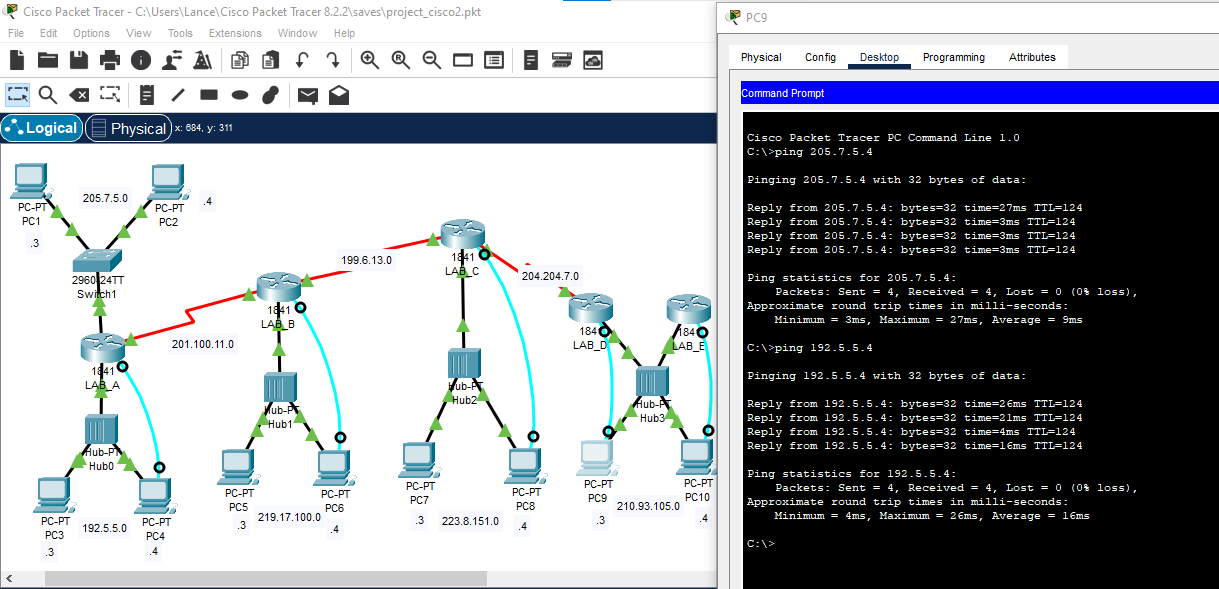
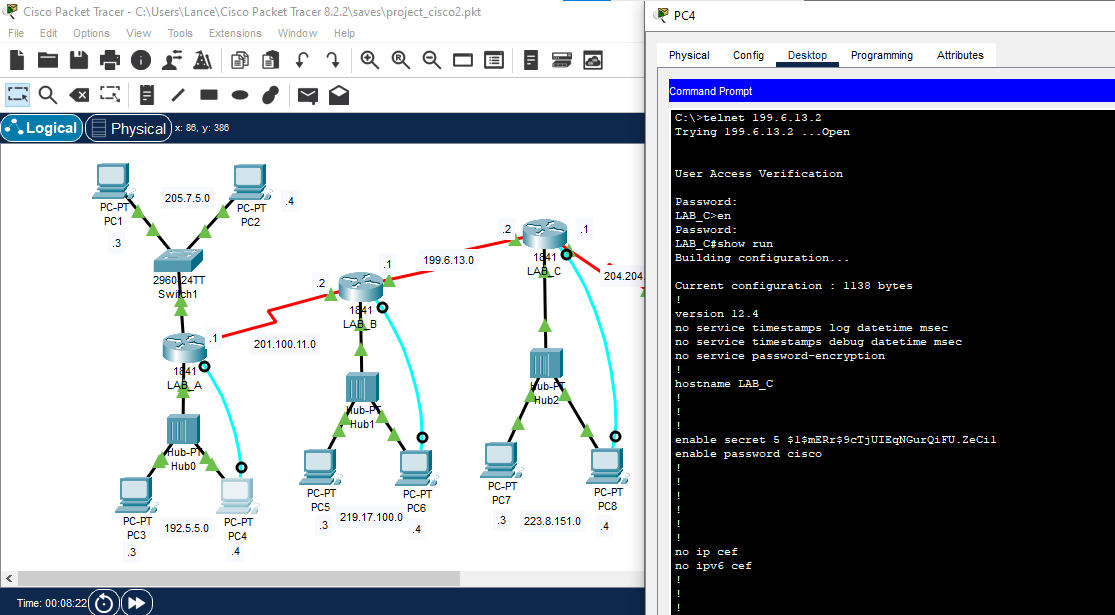
**220V**

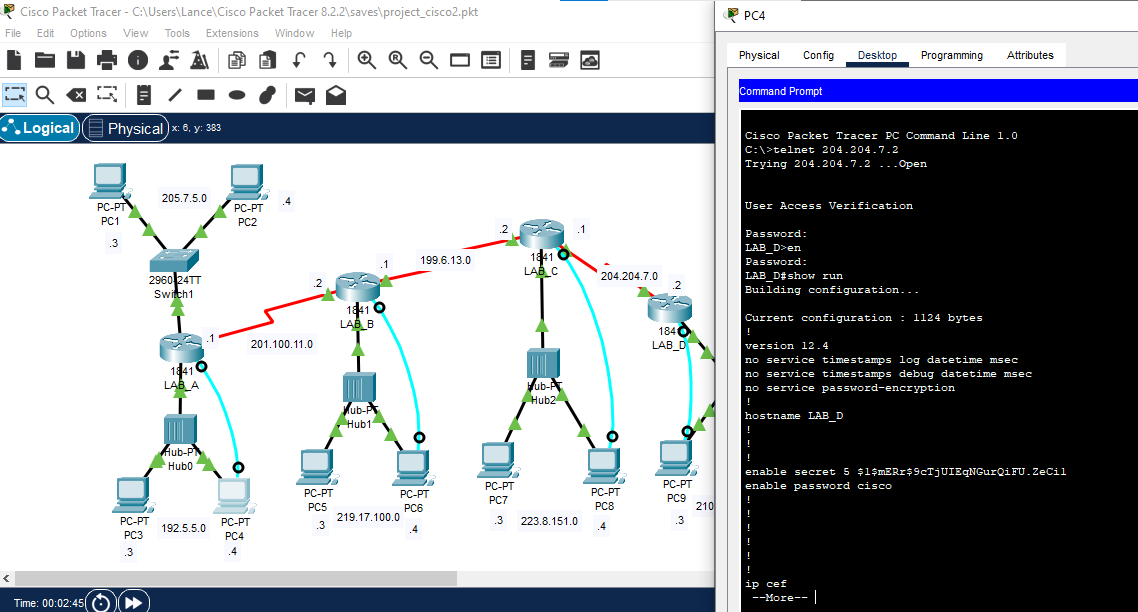
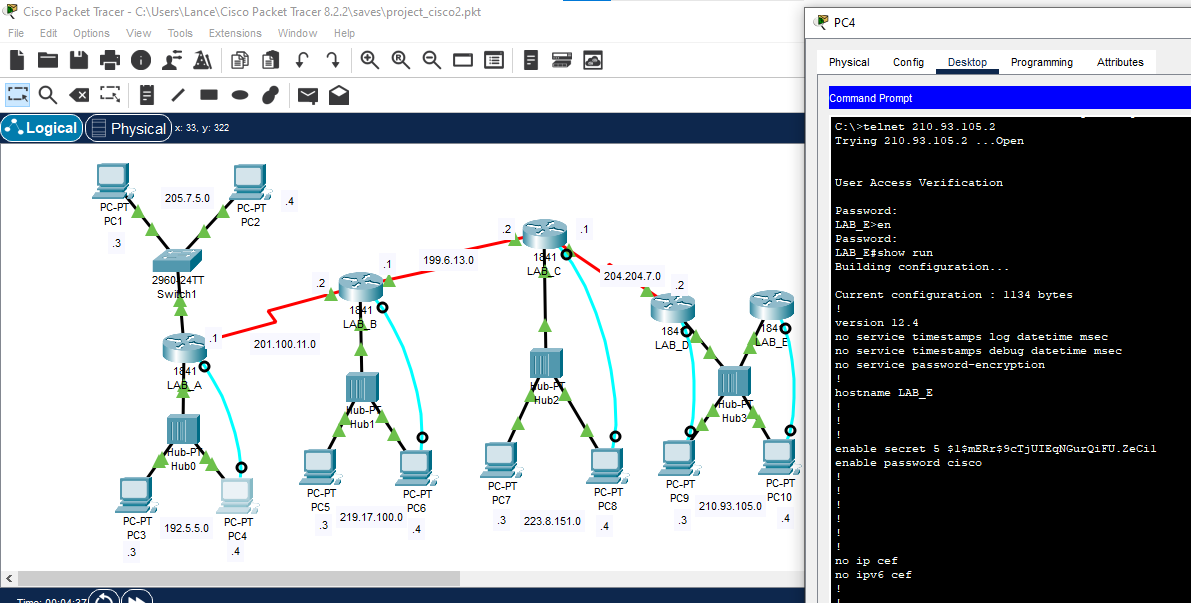
PING COMMAND

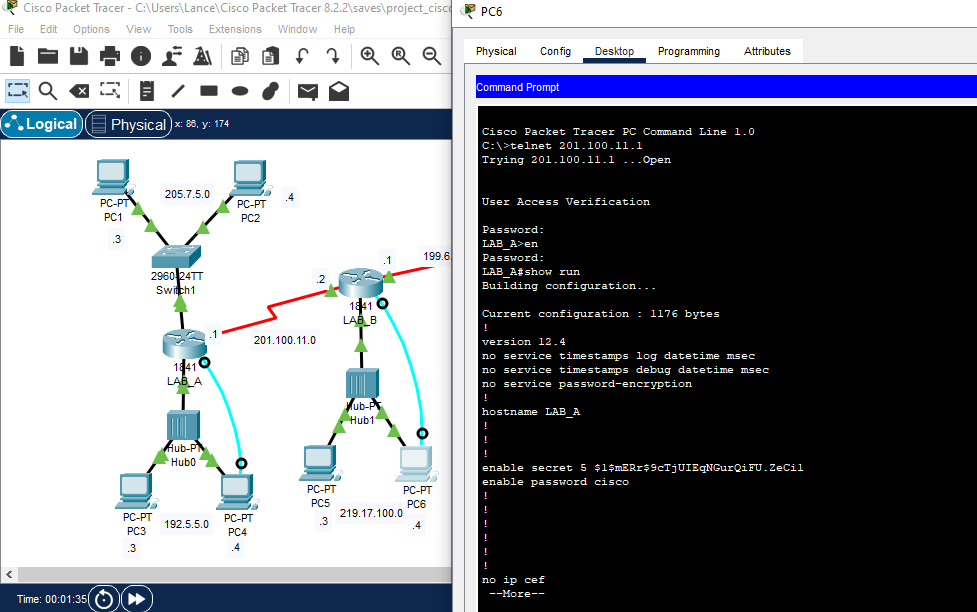
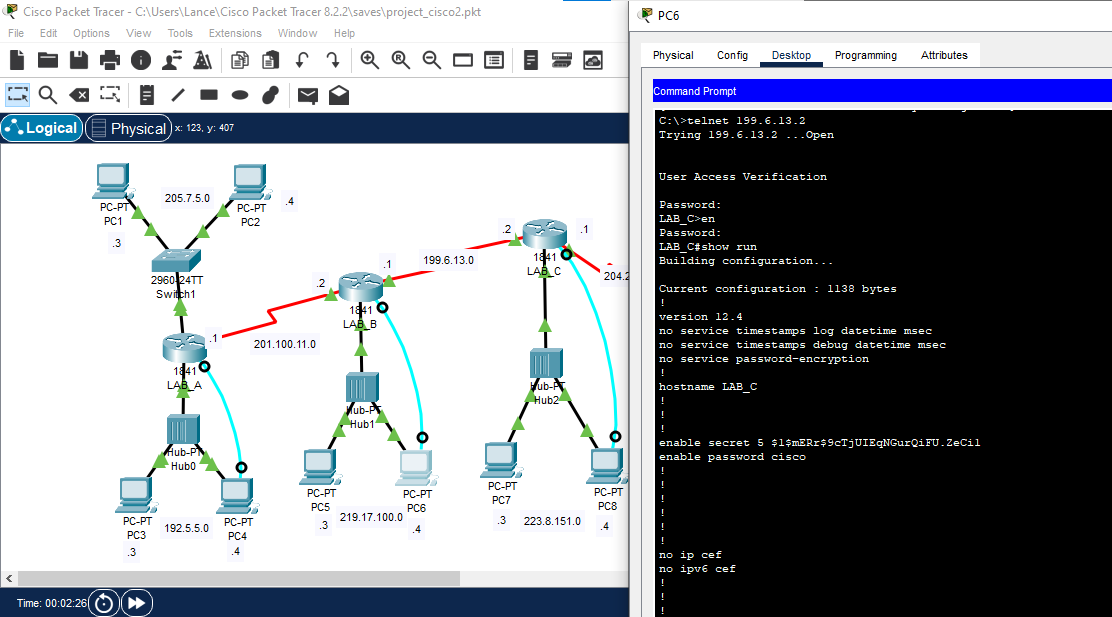
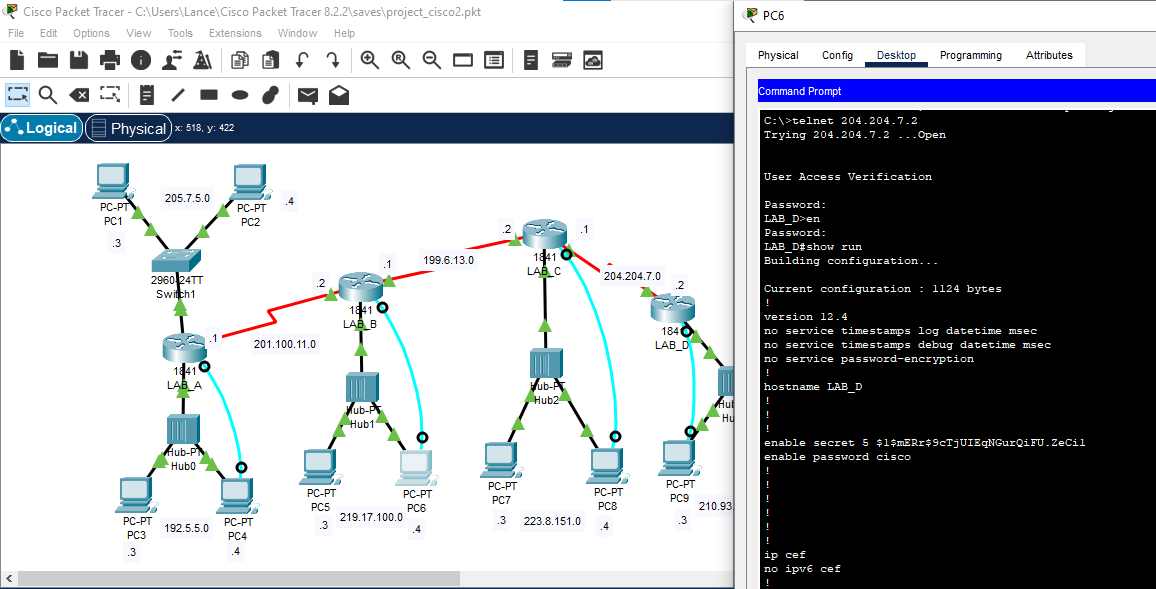


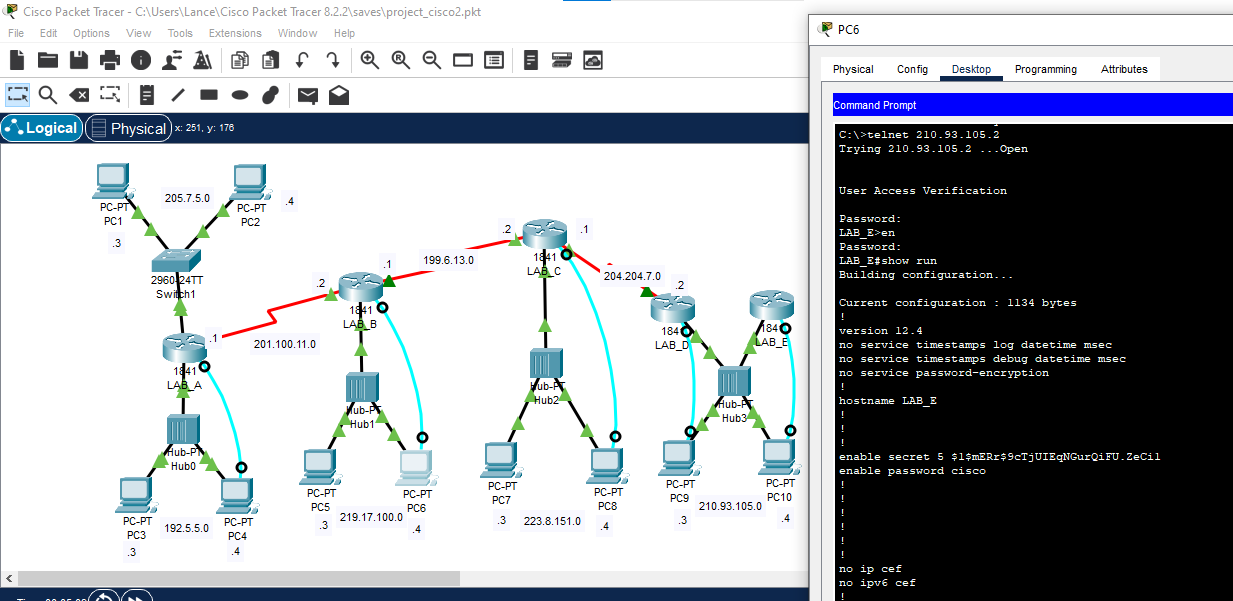


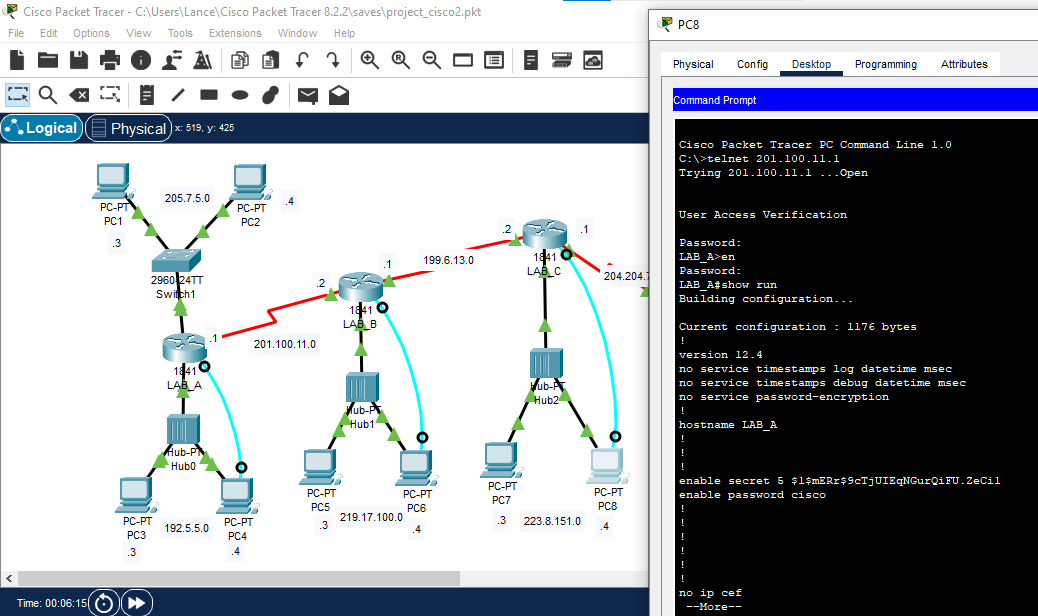
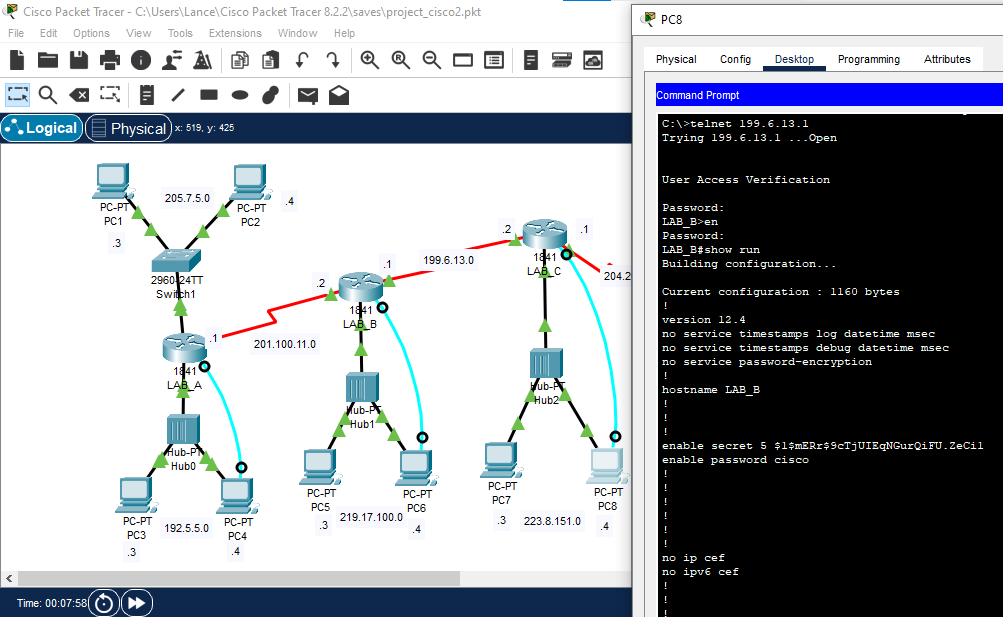


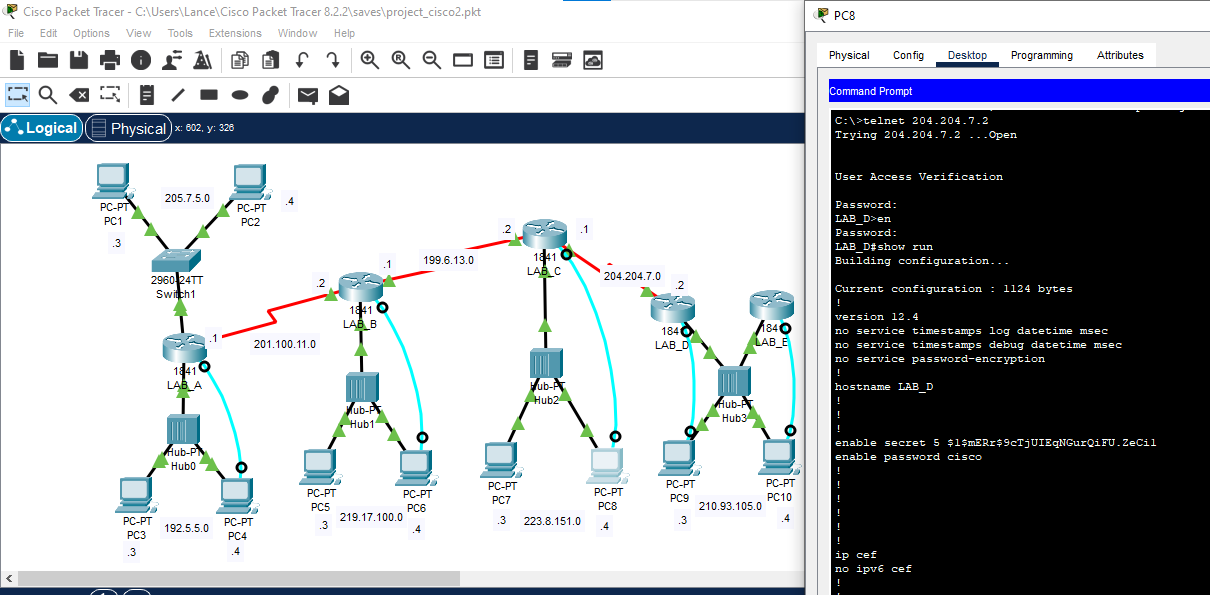
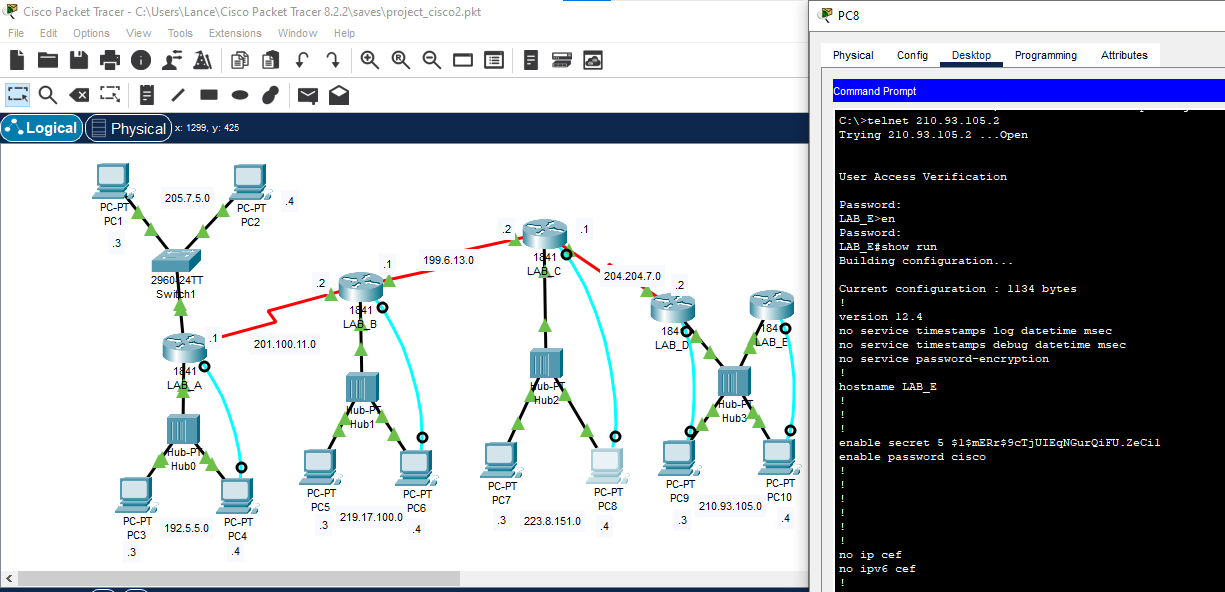
Telnet – LAB A

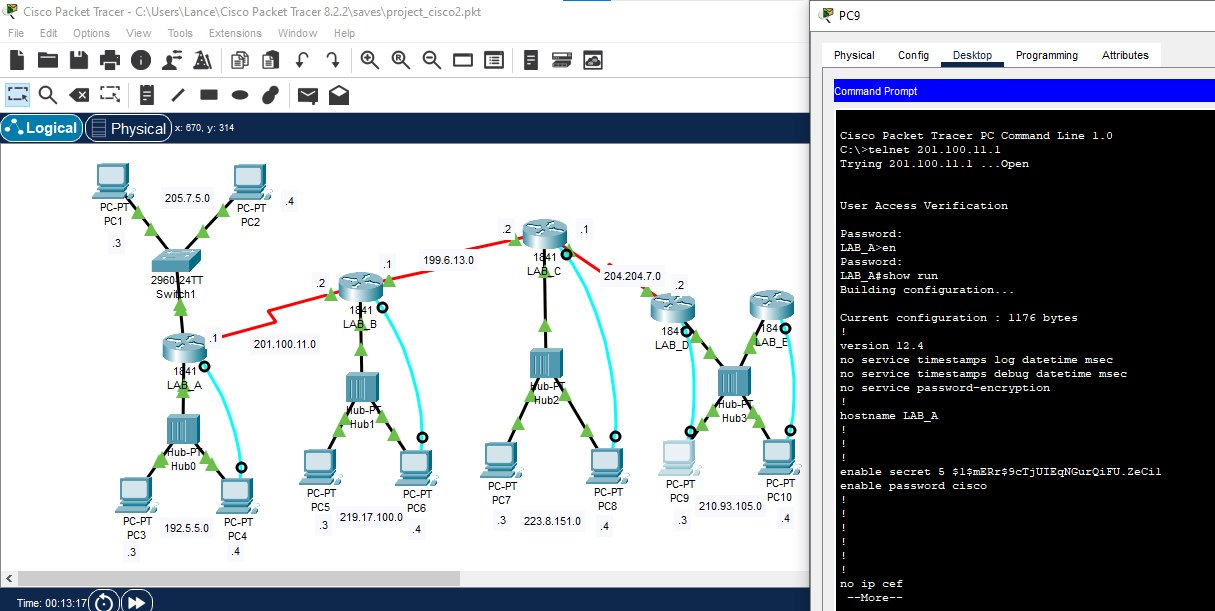
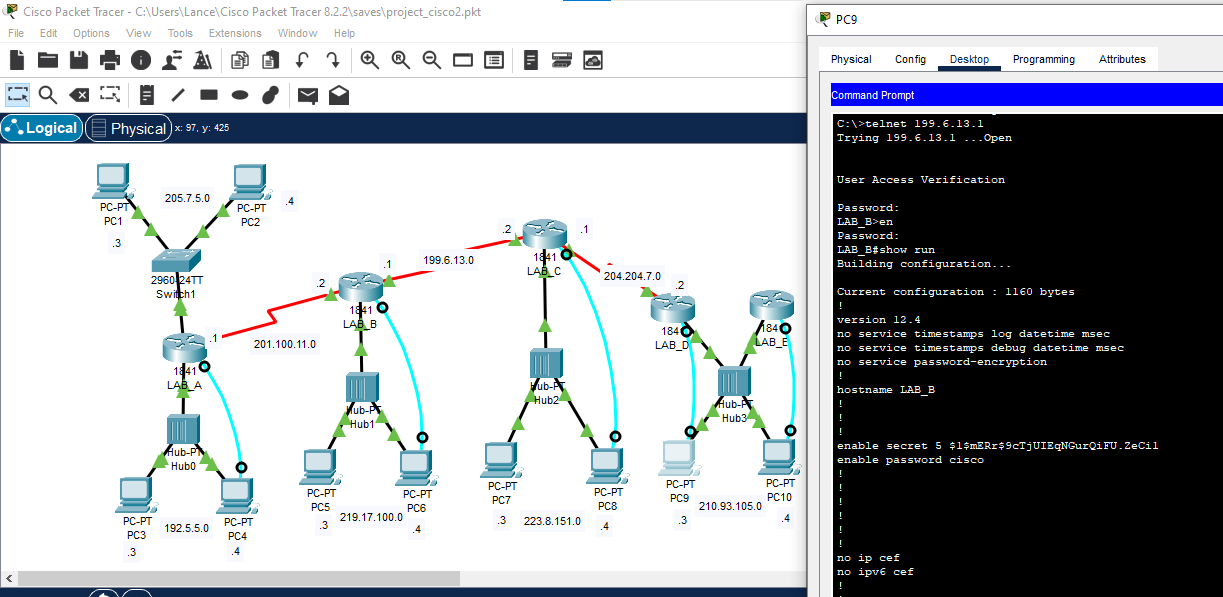
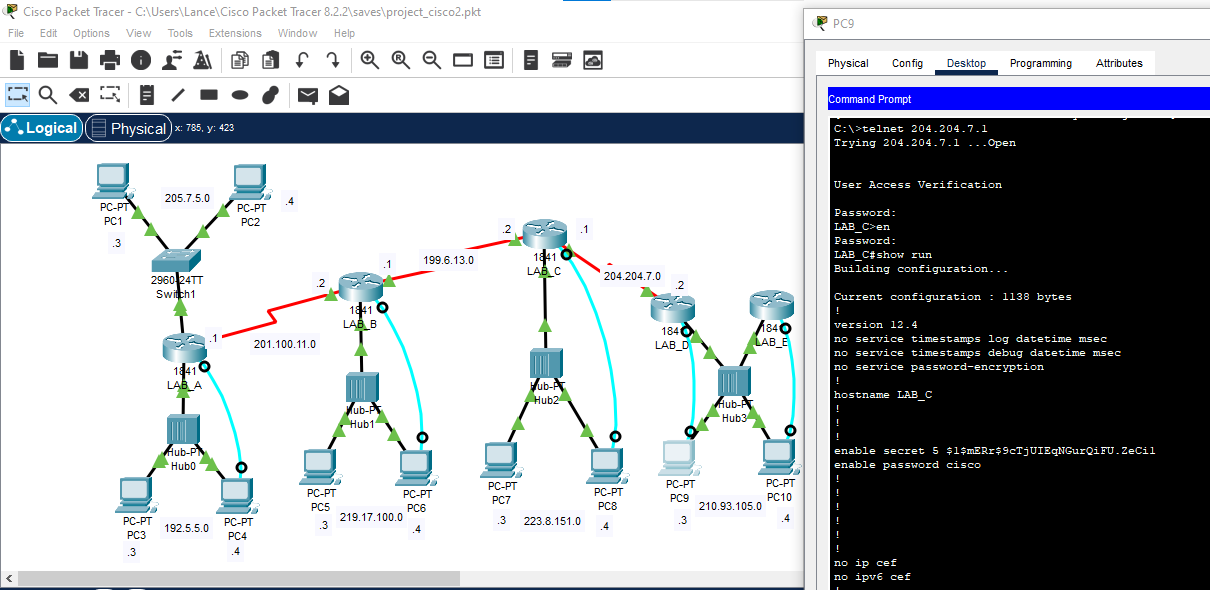


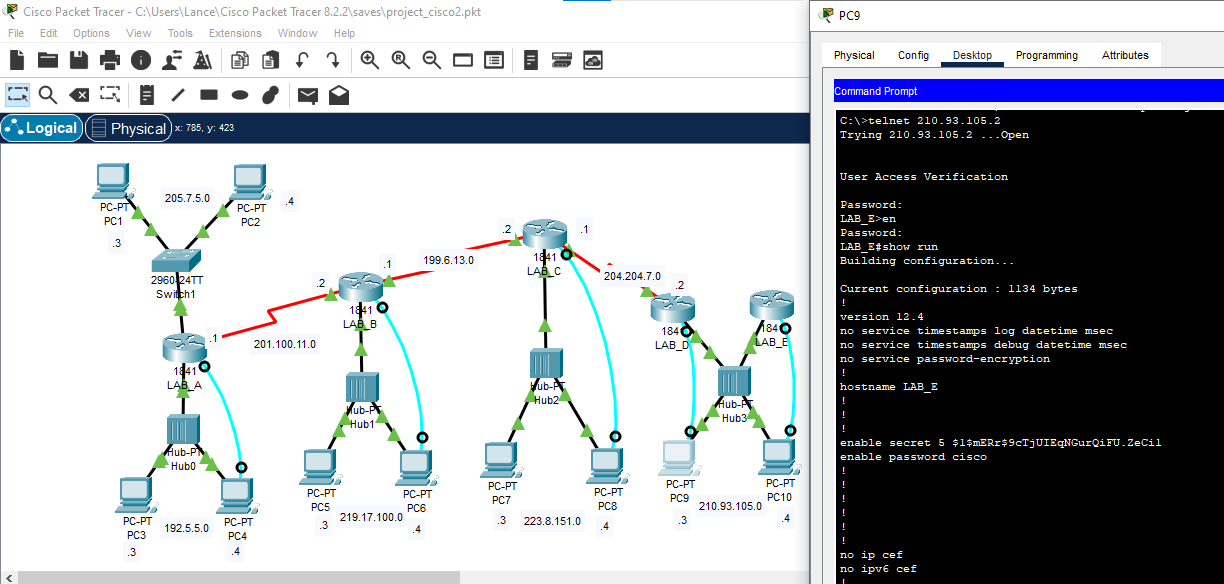
Telnet – LAB B

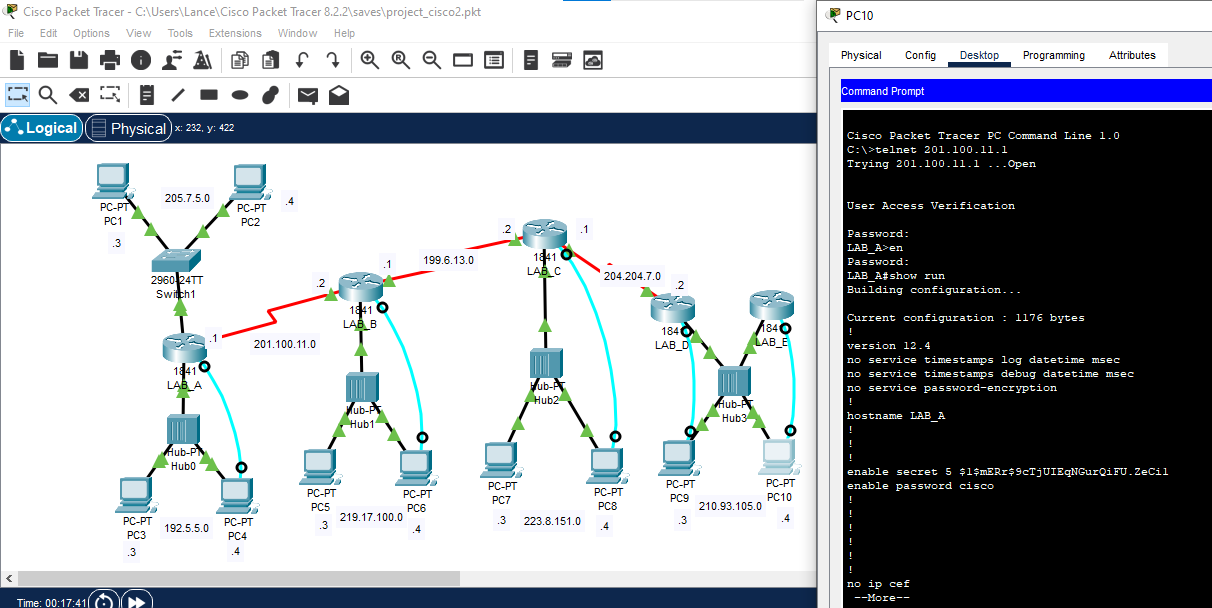
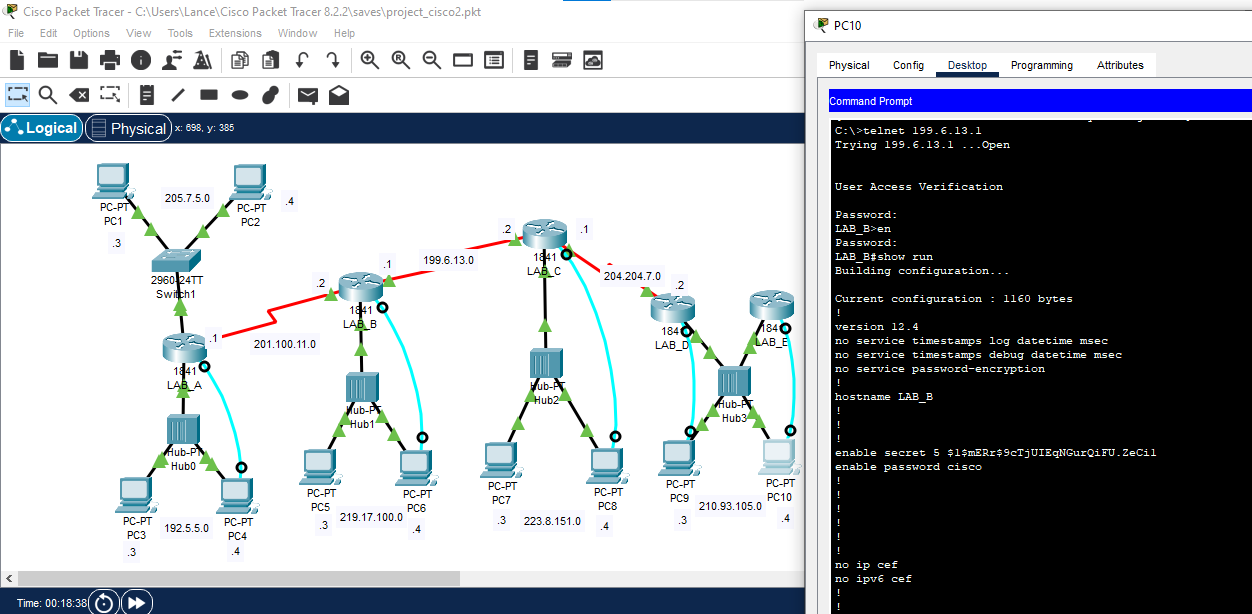
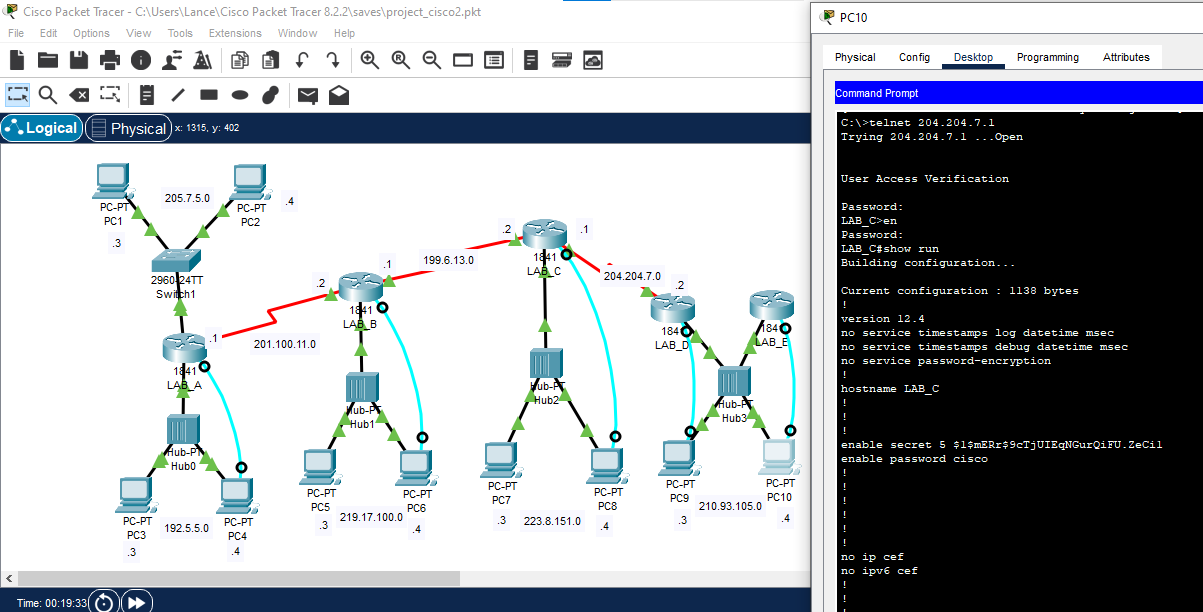


Telnet – LAB C



Telnet – LAB D



Telnet – LAB E

