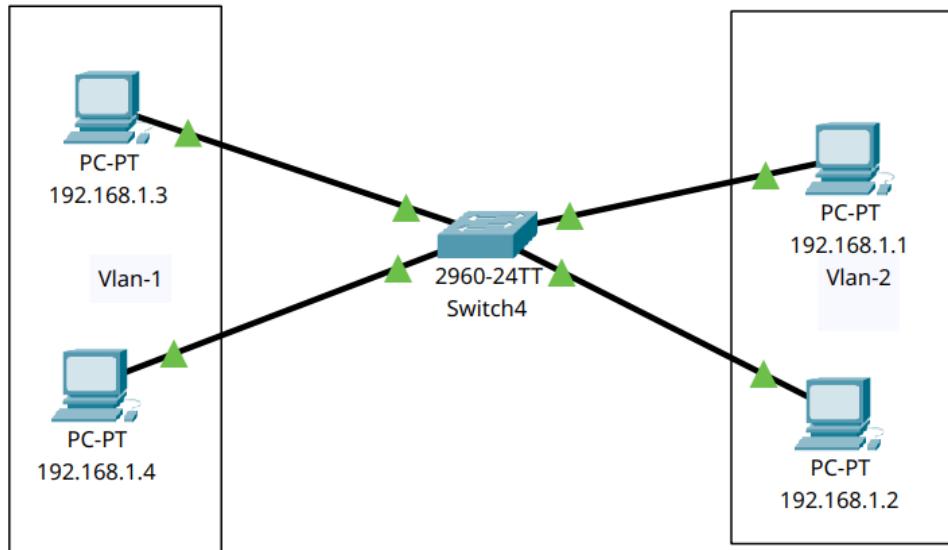


## VLAN Experiment configuration of switch



Make default gate way same of same vlan. Vlan1 and 2 gateway should be differ

Configure switch

→ go to cli press enter

Enable

Config terminal

Vlan 10

name VLAN1

Vlan 20

name VLAN2

Go to interface assign devices

If from cli then

Int fa0/1

switchport mode access

switchport access vlan 10 same for other

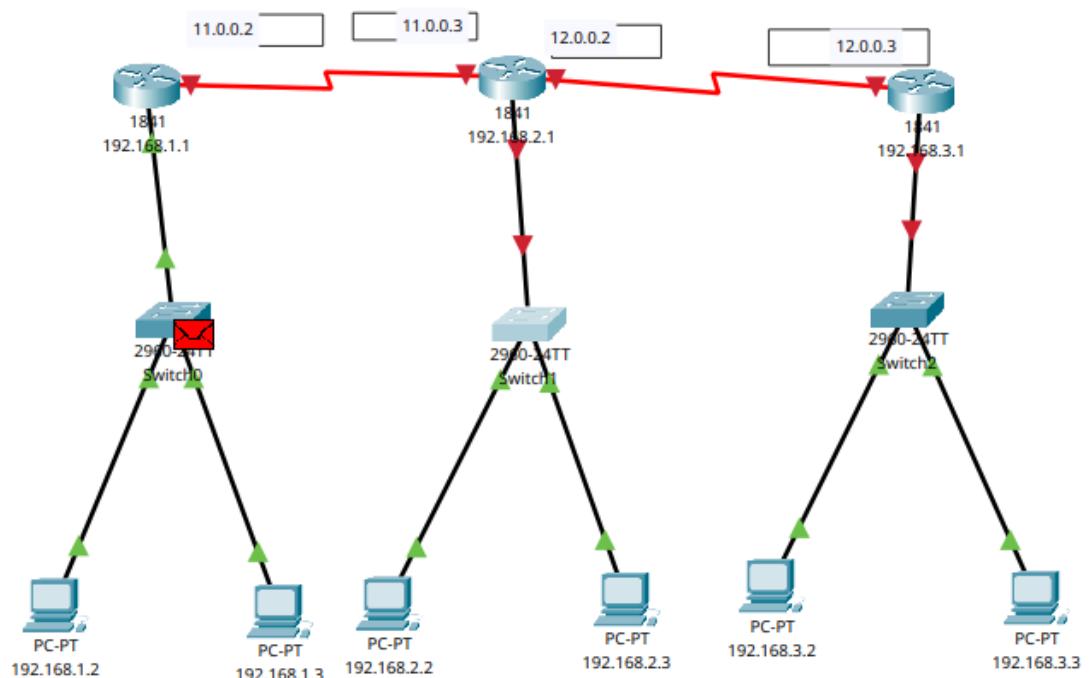
Simulation of Spanning Tree Protocol(STP).

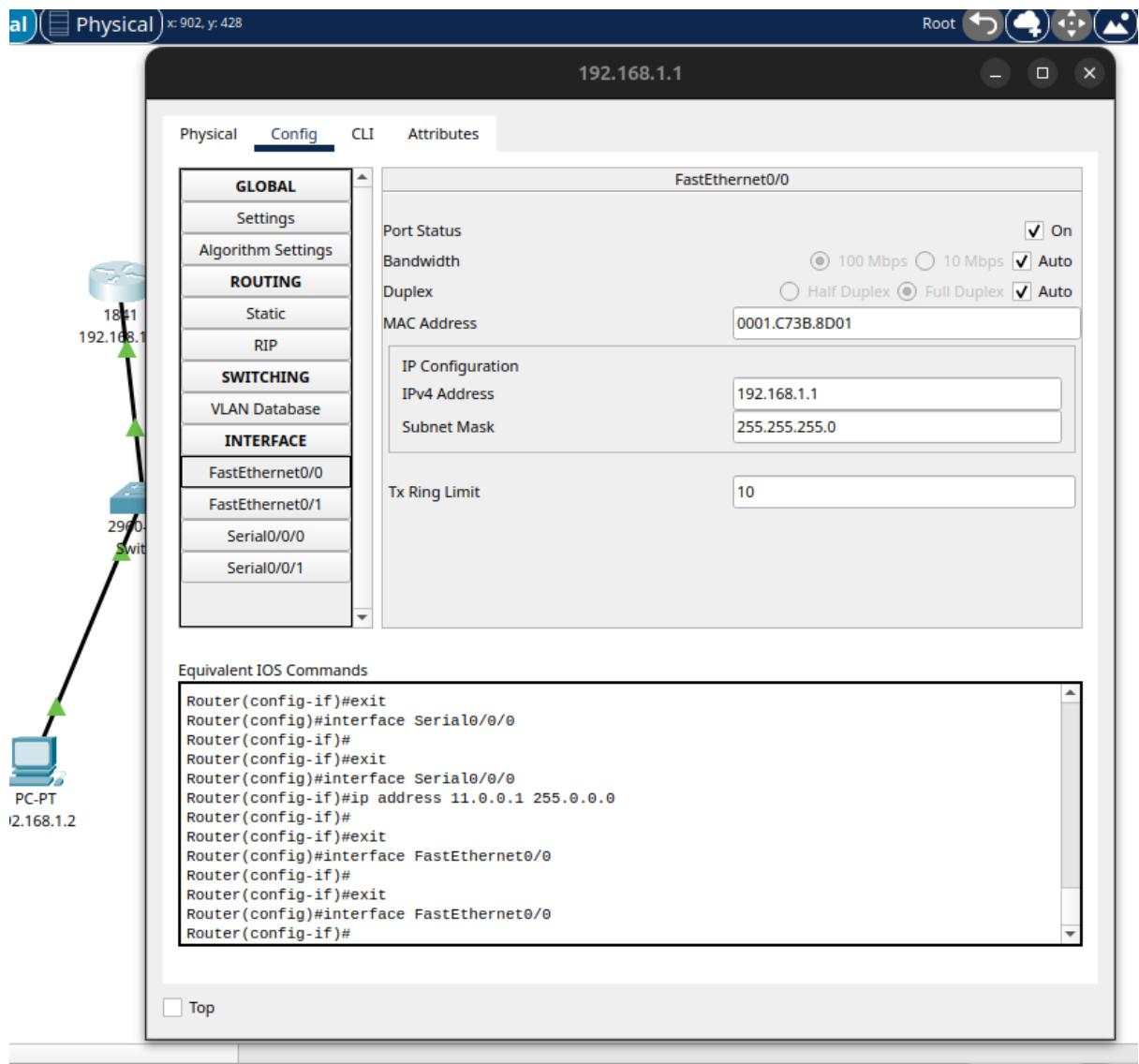
## TCP UDP

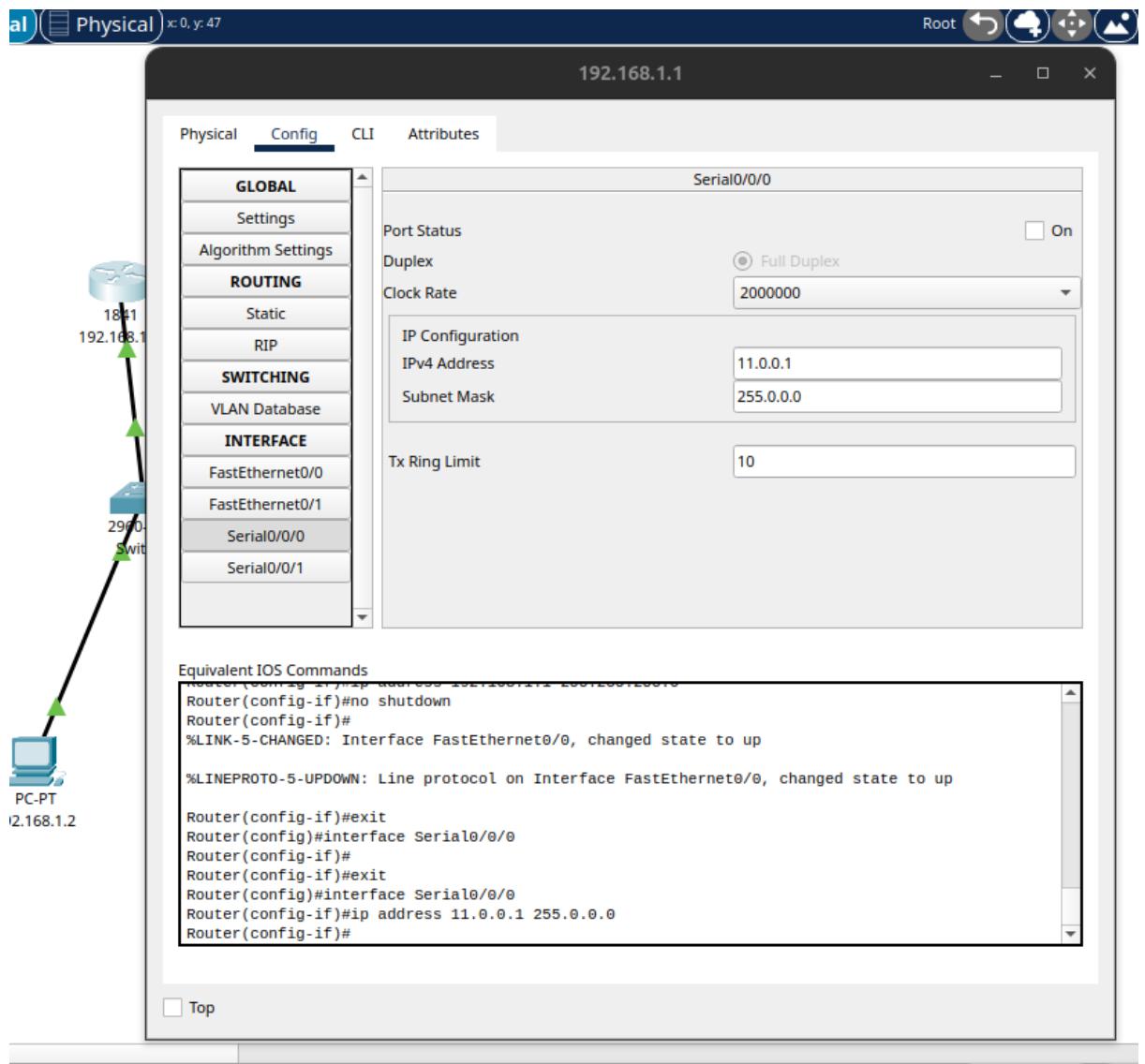
<https://cl1p.net/udp2>  
<https://cl1p.net/tcp>

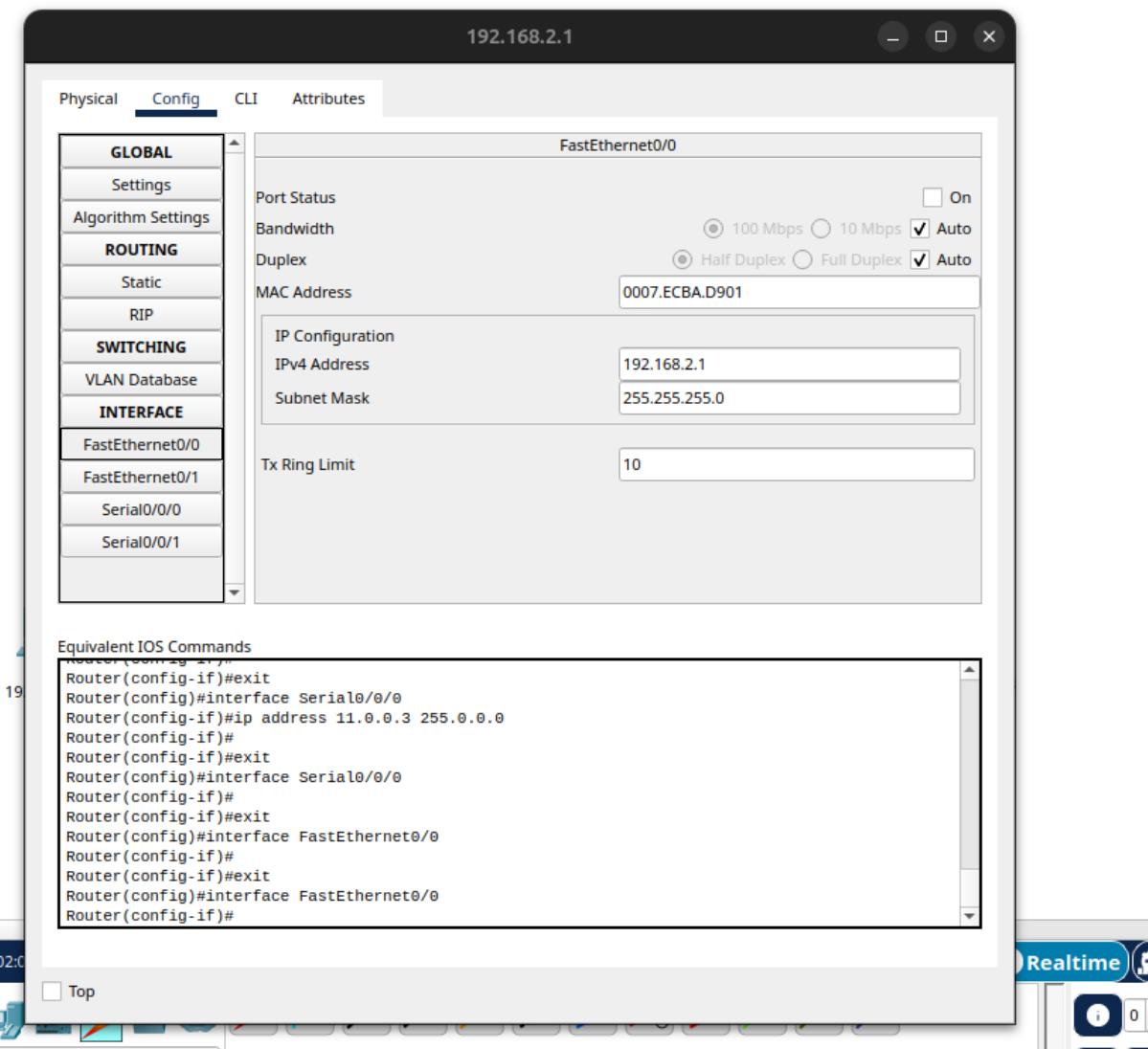
static routing

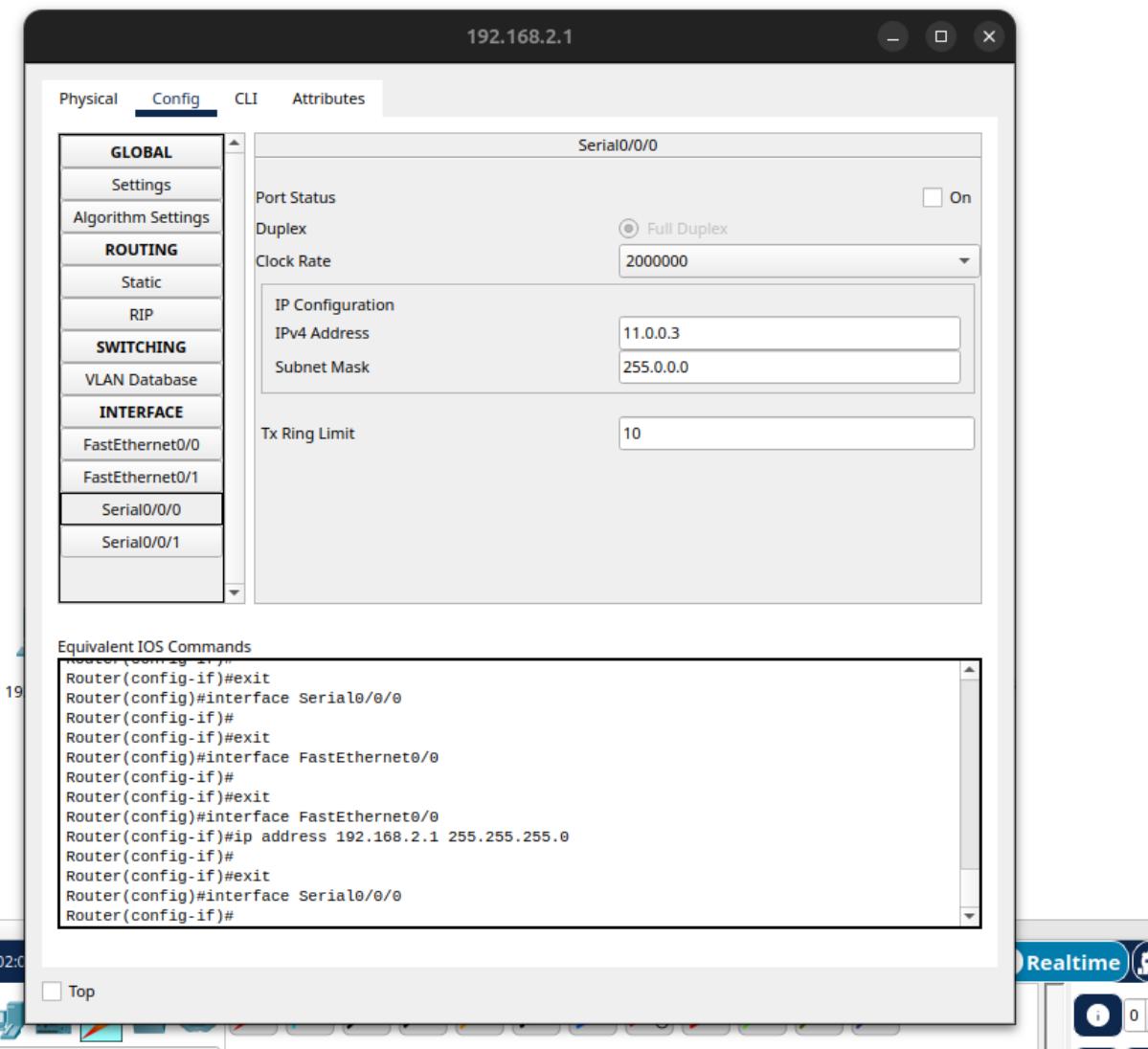
Make sure which serial is assign











192.168.2.1

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

**Serial0/0/1**

Port Status  On

Duplex  Full Duplex

Clock Rate 2000000

IP Configuration

IPv4 Address 12.0.0.2

Subnet Mask 255.0.0.0

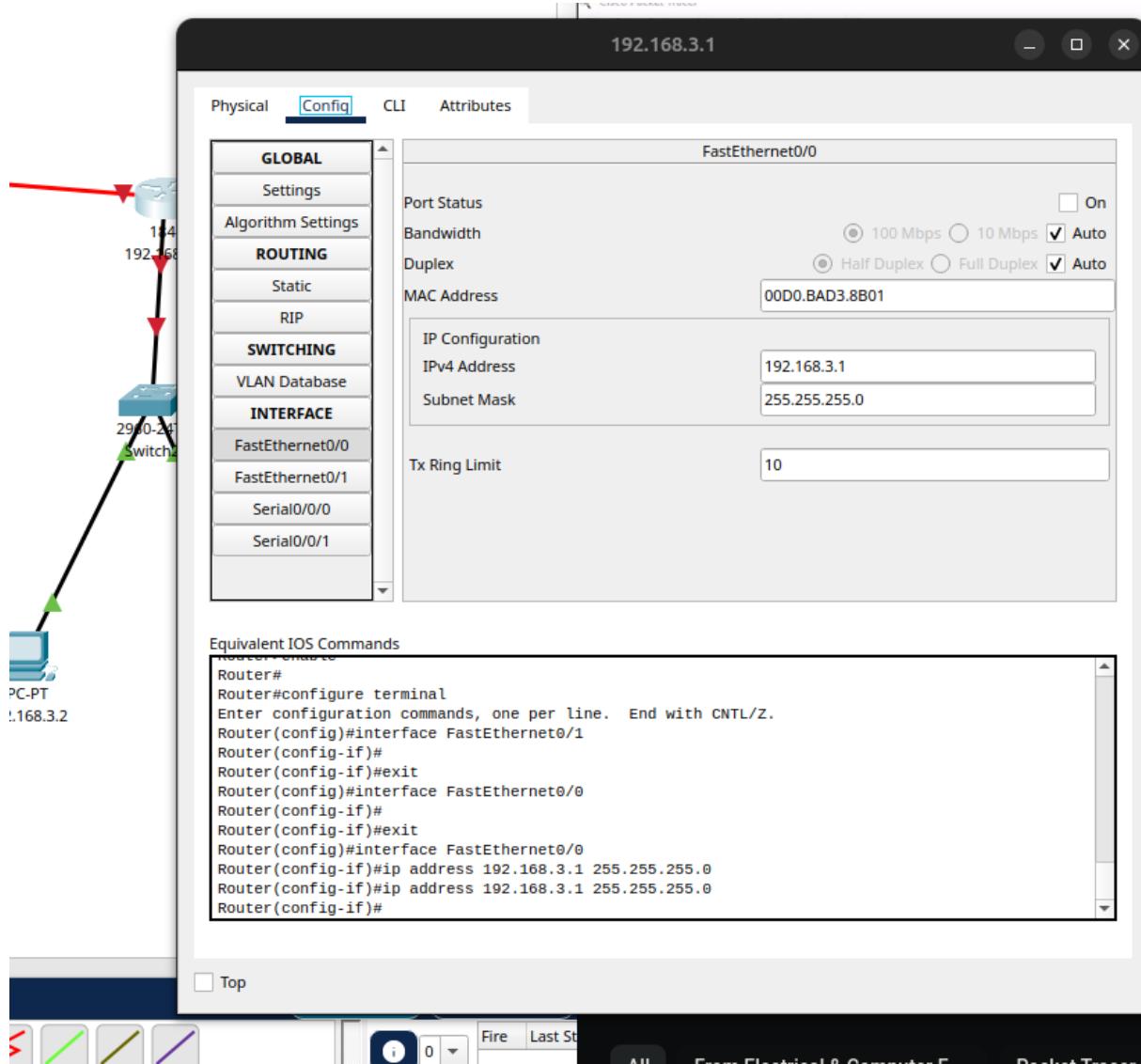
Tx Ring Limit 10

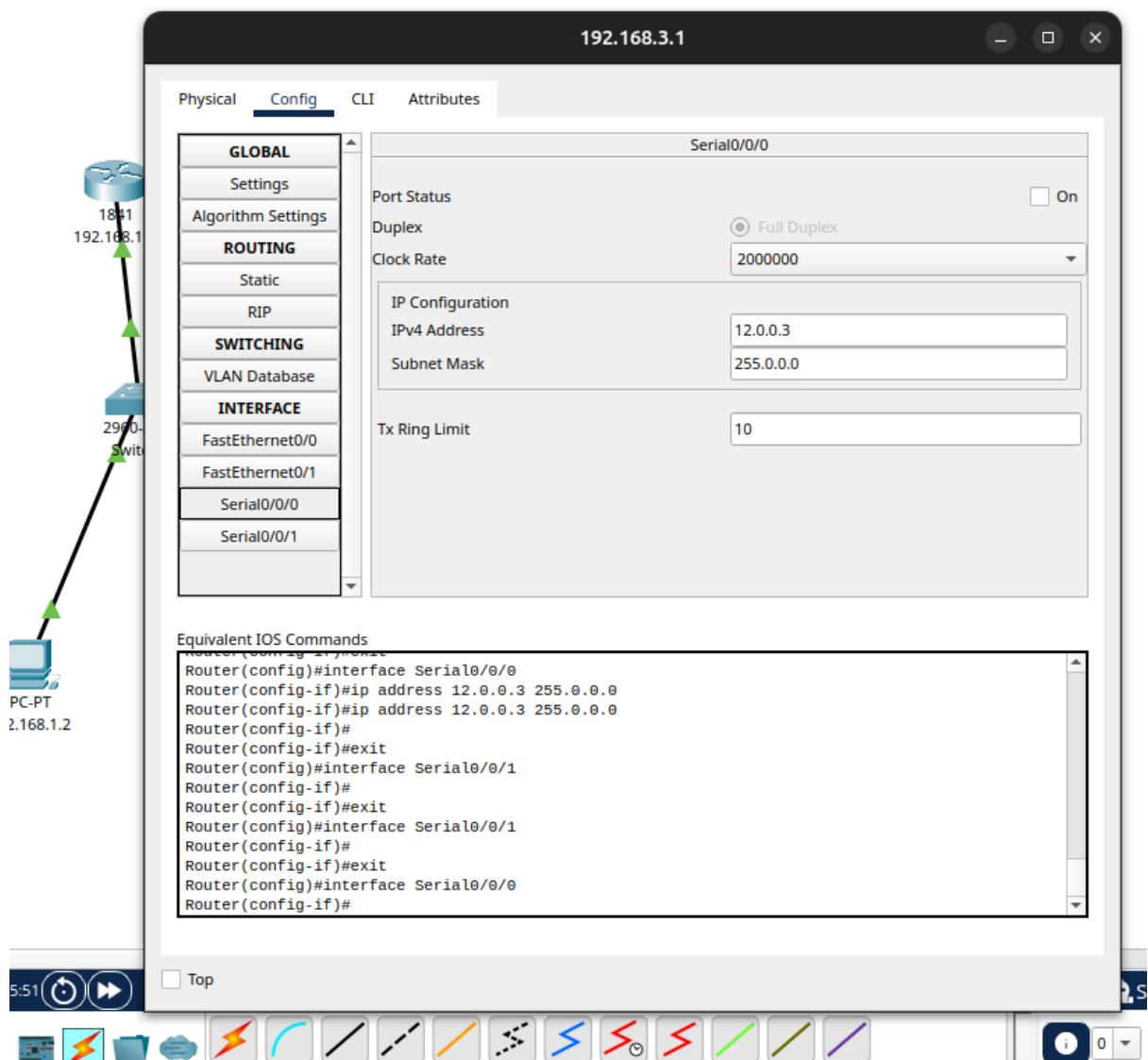
Equivalent IOS Commands

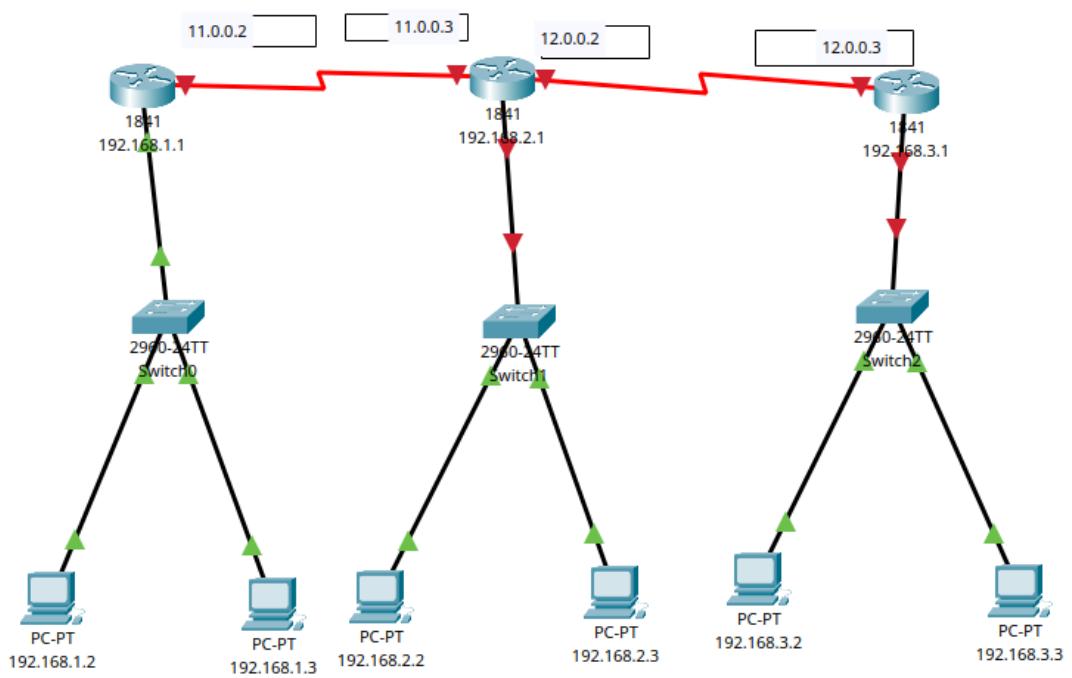
```
Router(config)#interface FastEthernet0/0
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#exit
Router(config)#interface Serial0/0/1
Router(config-if)#ip address 12.0.0.2 255.0.0.0
Router(config-if)#ip address 12.0.0.2 255.0.0.0
Router(config-if)#
192.168.2.1
```

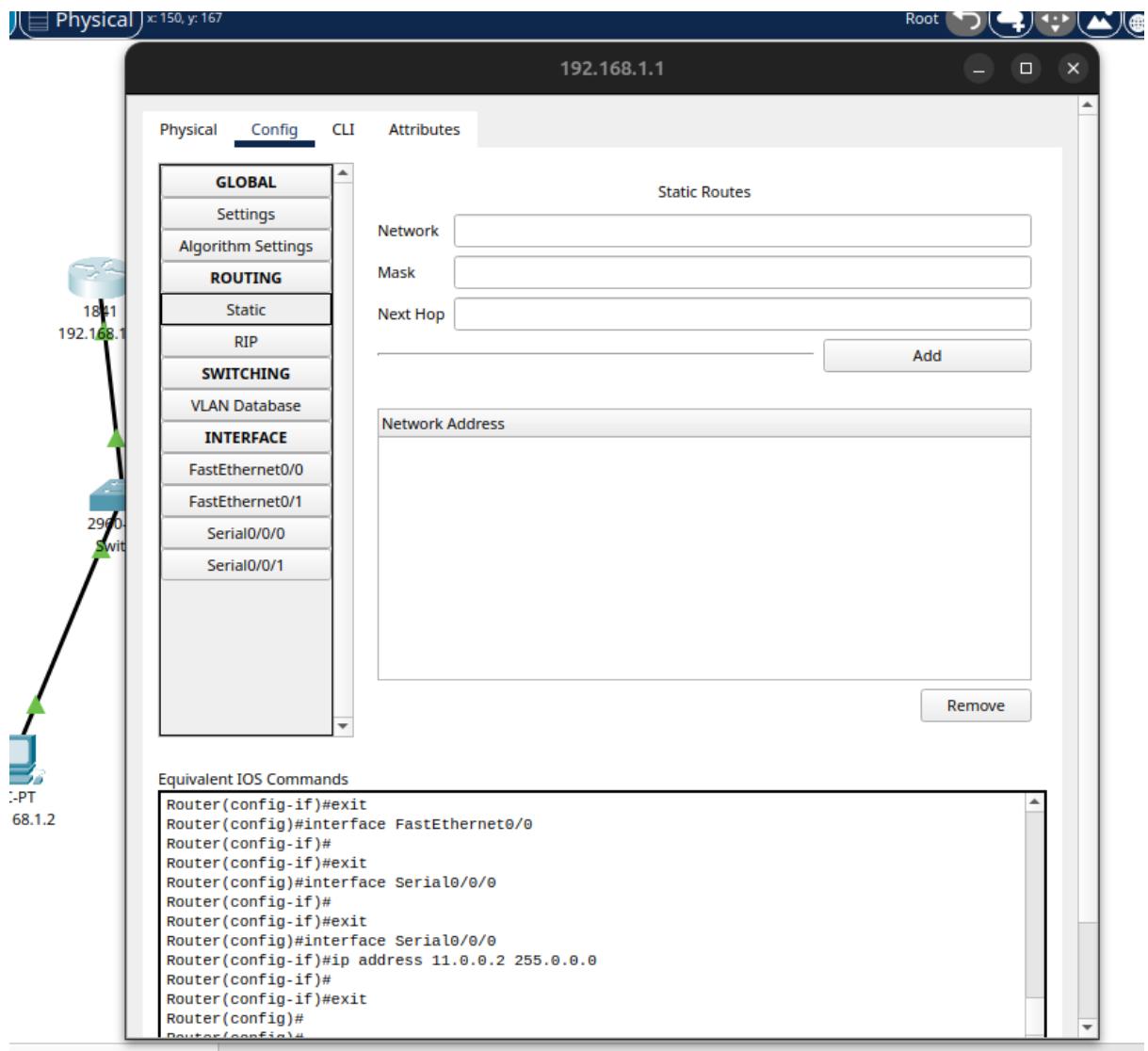
02:00 Top

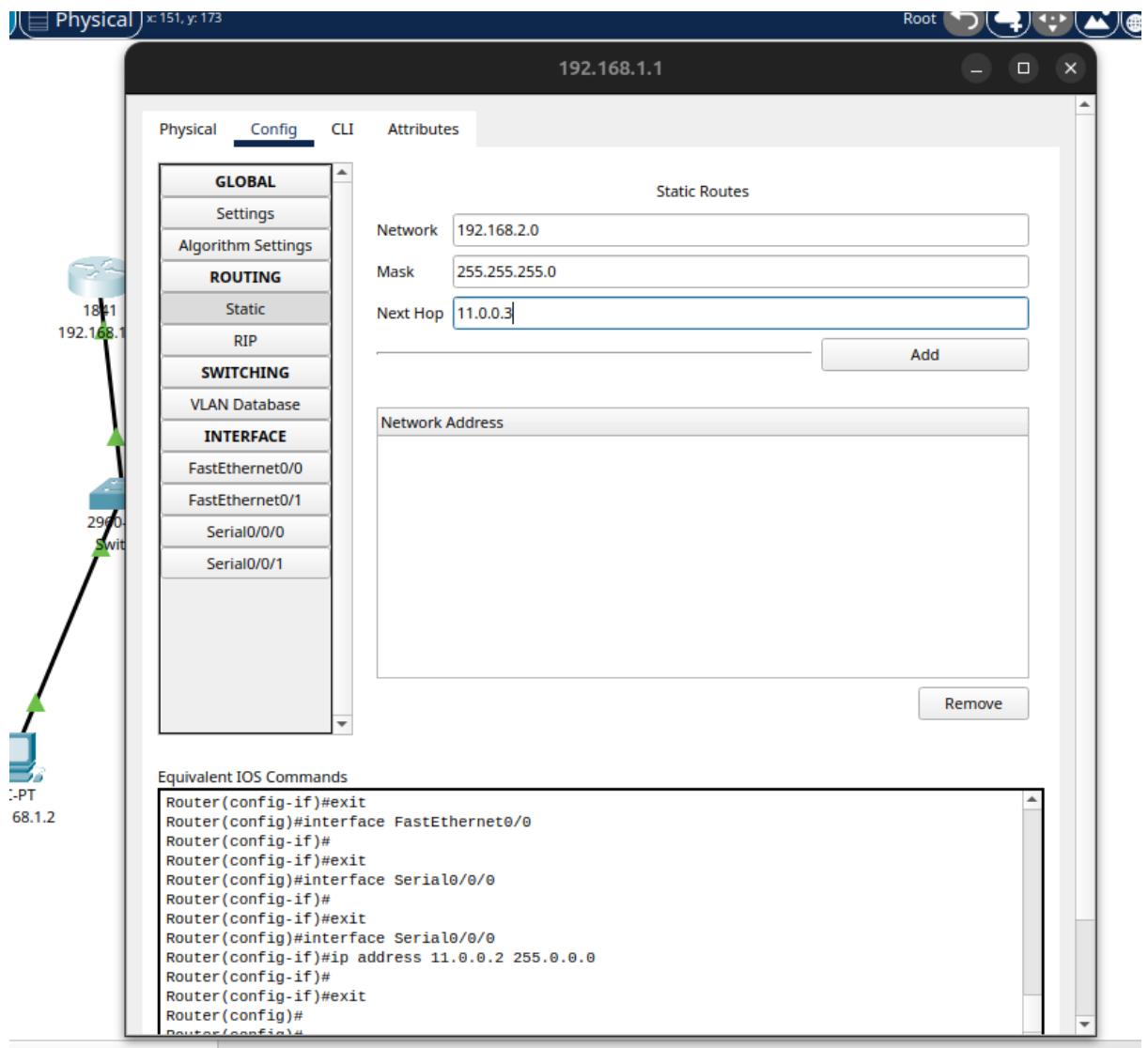
Realtime











841  
192.168.2.1

900-24TT  
switch11

192.168.2.0/24 via 11.0.0.3

192.168.2.0 255.255.255.0 11.0.0.3

Router(config)#interface Serial0/0/0  
Router(config-if)#ip address 11.0.0.2 255.0.0.0  
Router(config-if)#exit  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#ip route 192.168.2.0 255.255.255.0 11.0.0.3  
Router(config)#  
Router(config)#  
Router(config)#  
Router(config)#

Physical Config CLI Attributes

GLOBAL  
Settings  
Algorithm Settings  
ROUTING  
Static  
RIP  
SWITCHING  
INTERFACE  
FastEthernet0/0  
FastEthernet0/1  
Serial0/0/0  
Serial0/0/1

Static Routes

Network: [ ]

Mask: [ ]

Next Hop: [ ]

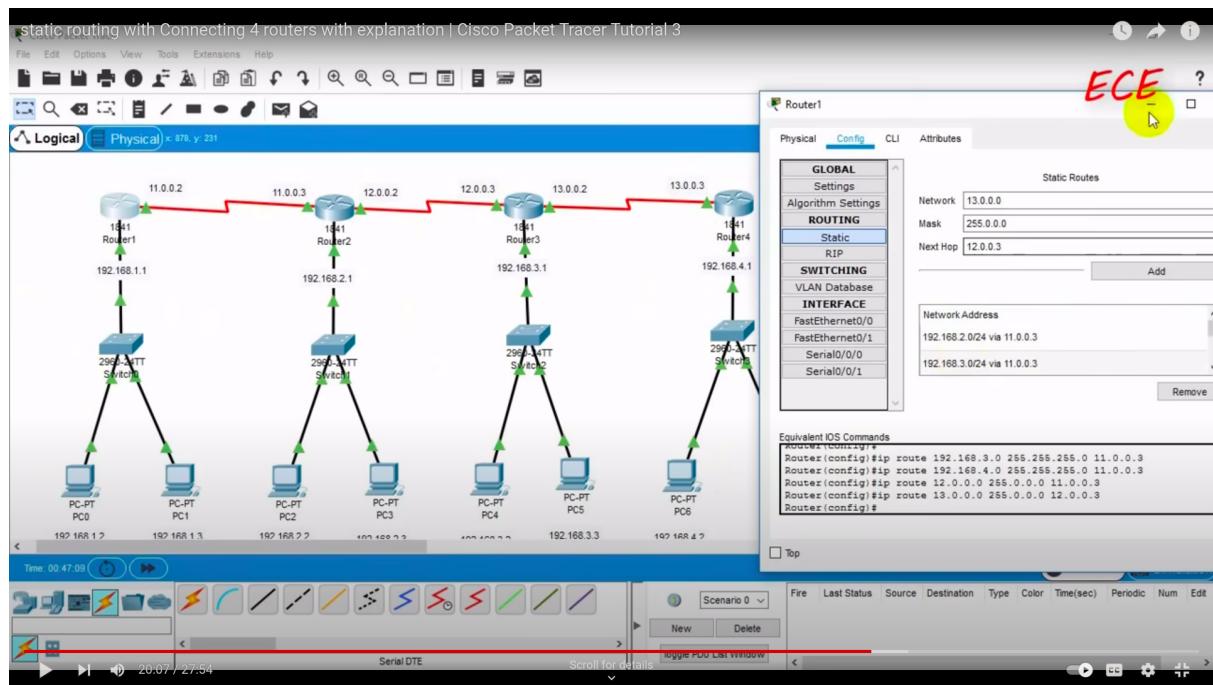
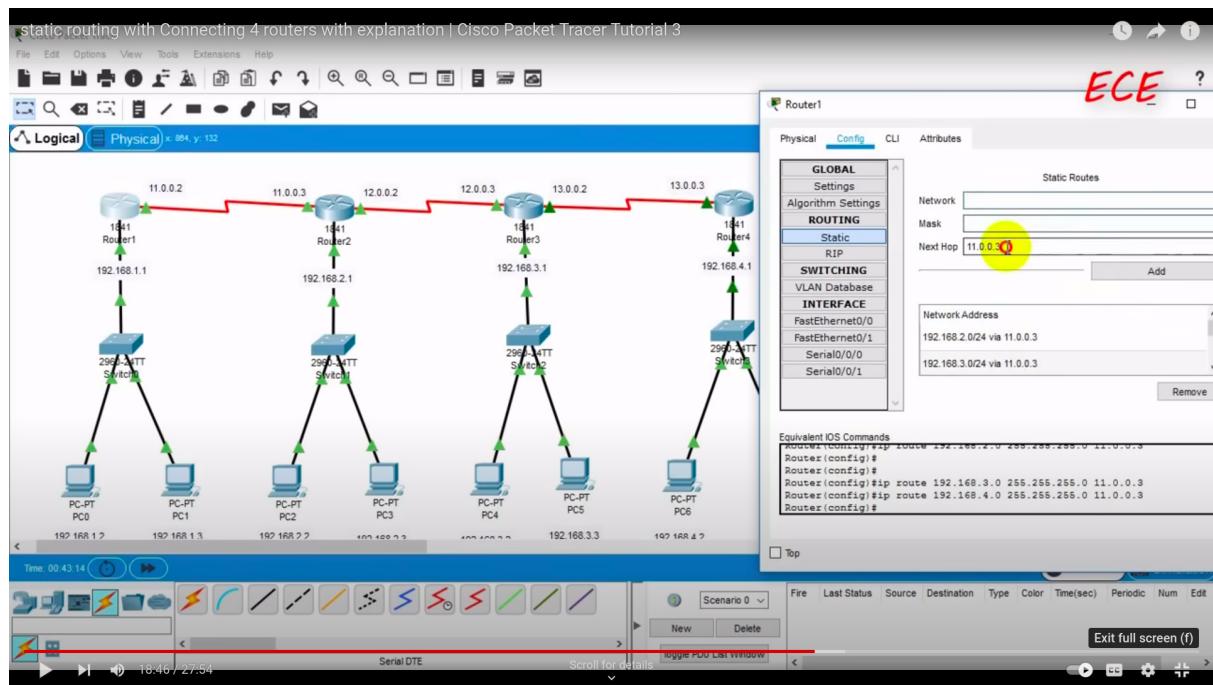
Add

Remove

Equivalent IOS Commands

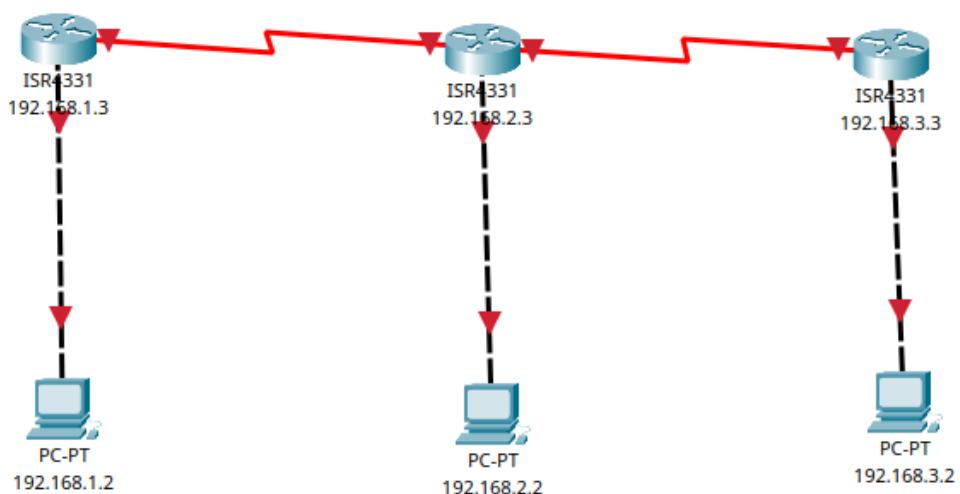
Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edi
In Progress	192	192.168.2.2	TCPMP	Green	0.000	N	0	per	

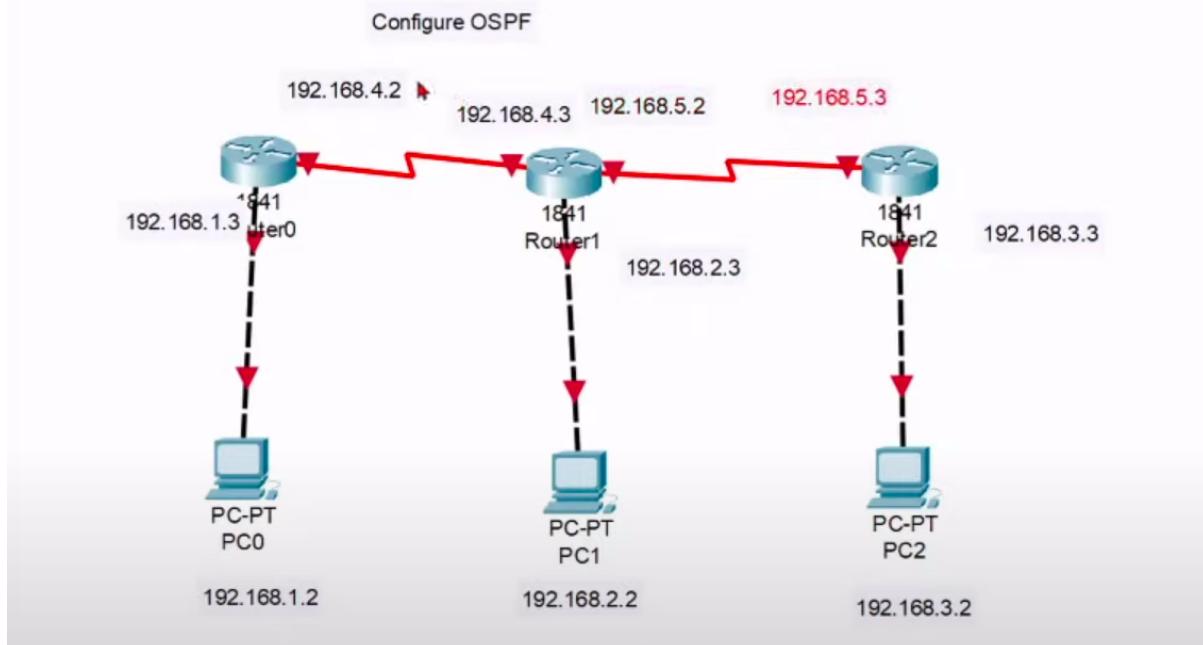


## Simulation of Open Shortest Path First (OSPF).

Router 1841



## According to seriL PORT GIVE THE IP



192.168.1.3

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up
```

```
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#exit  
Router#exit
```

```
Router con0 is now available
```

```
Press RETURN to get started.
```

IOS Command Line Interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf
% Incomplete command.
Router(config)#router ospf1
          ^
% Invalid input detected at '^' marker.

Router(config)#router ospf 1
Router(config-router)#^Z
Router#^Z
Router#enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf1
          ^
% Invalid input detected at '^' marker.

Router(config)#router ospf 1
Router(config-router)#network 192.168.1.0 0.0.0.255 area1
          ^
% Invalid input detected at '^' marker.

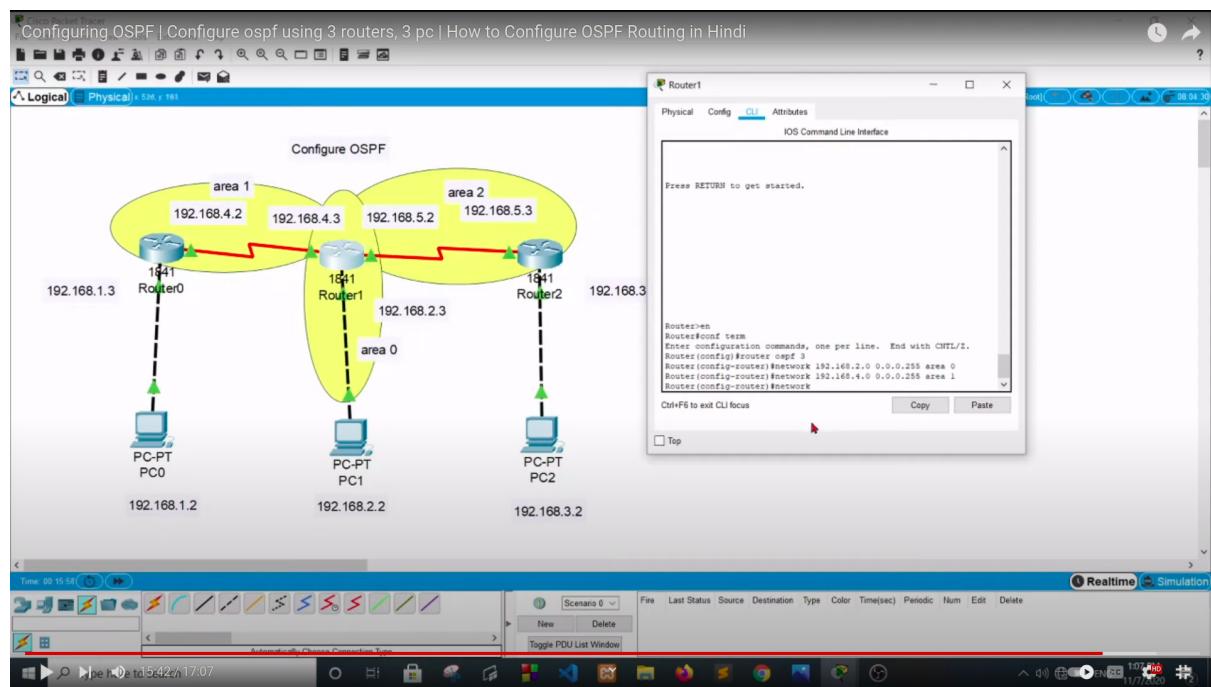
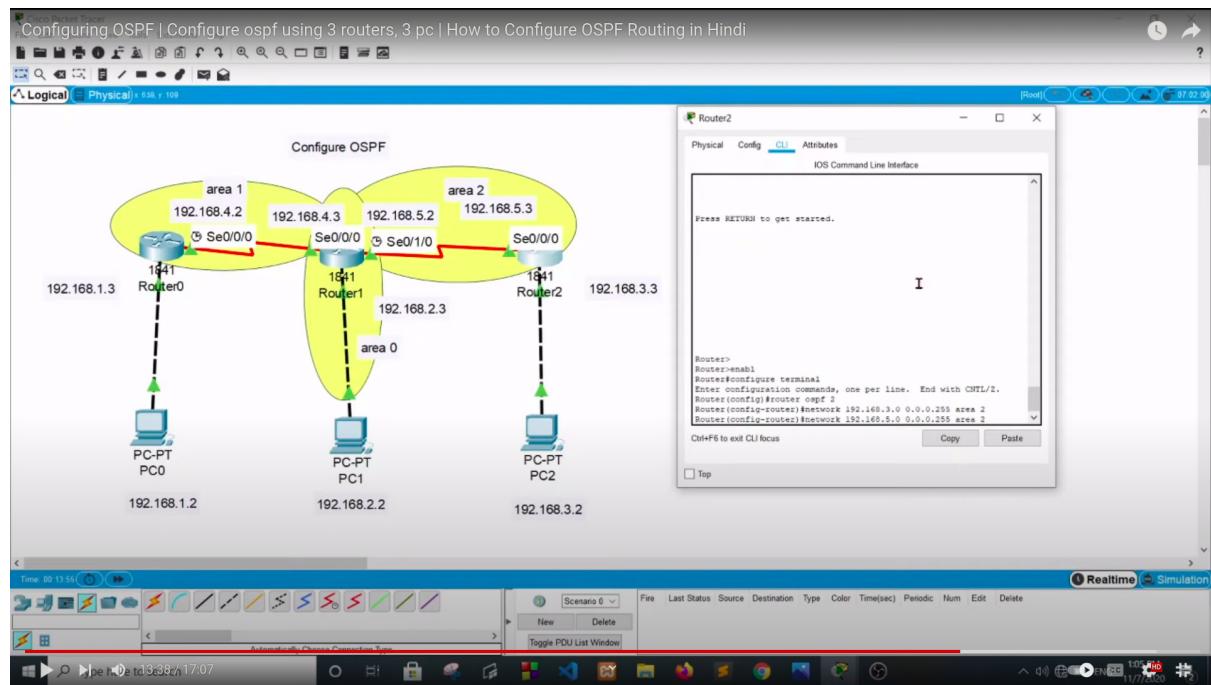
Router(config-router)#network 192.168.1.0 0.0.0.255 area 1
Router(config-router)#network 192.168.1.0 0.0.0.255 area 1
%SYS-5-CONFIG_I: Configured from console by console

%SYS-5-CONFIG_I:
Router(config-router)#network 192.168.4.0 0.0.0.255 area 1
Router(config-router)#[
```

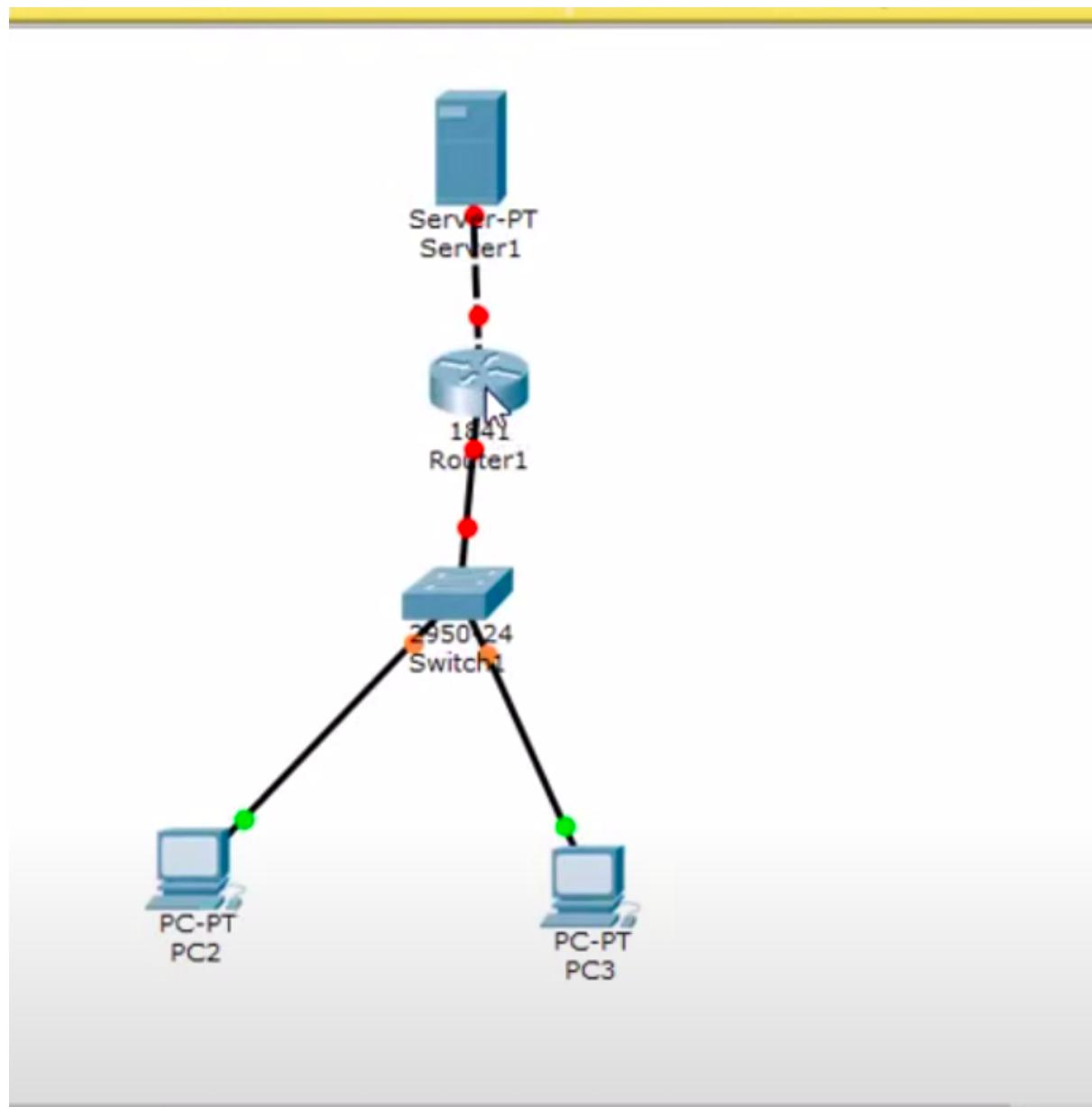
[Copy](#)

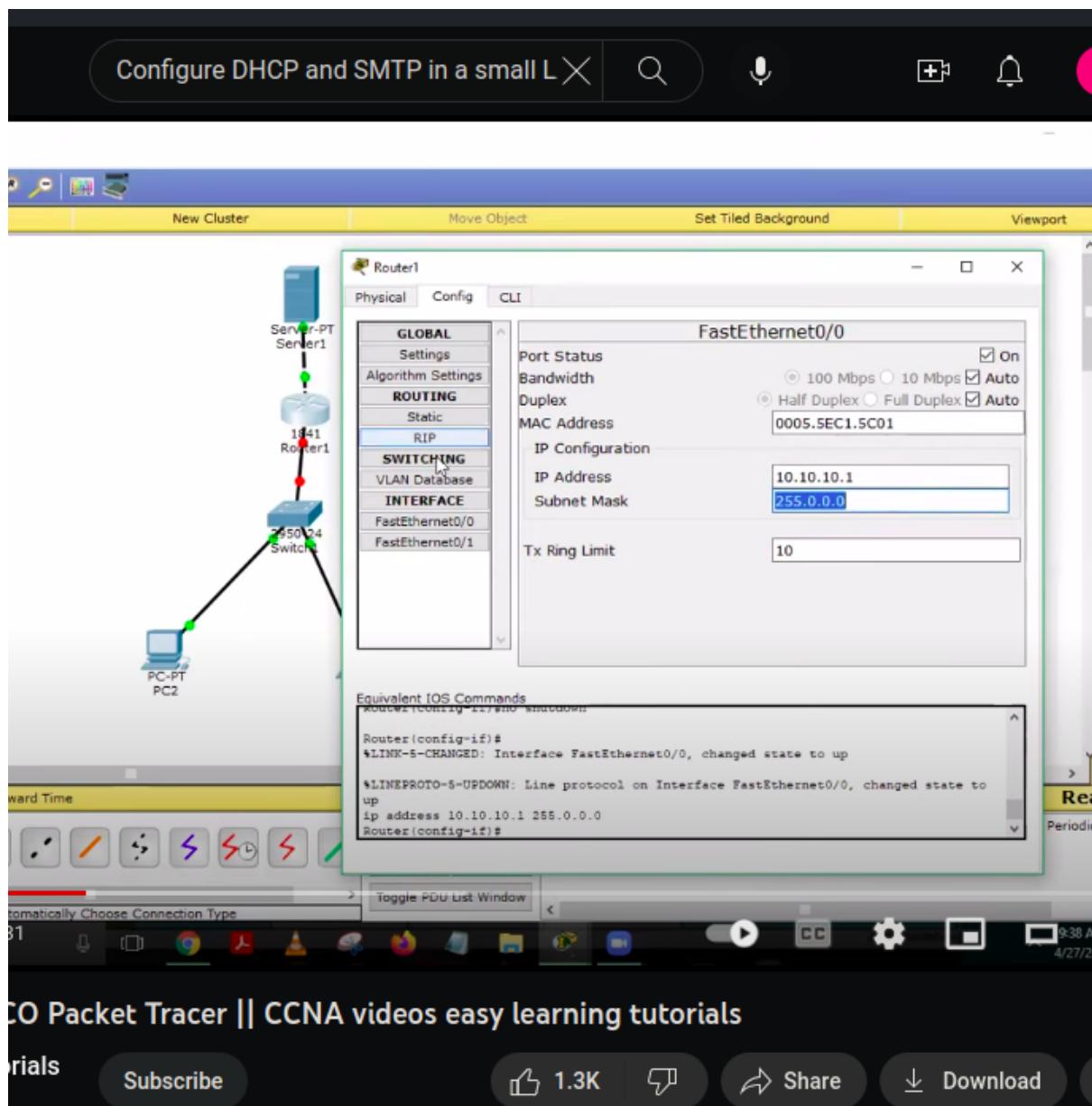
Paste

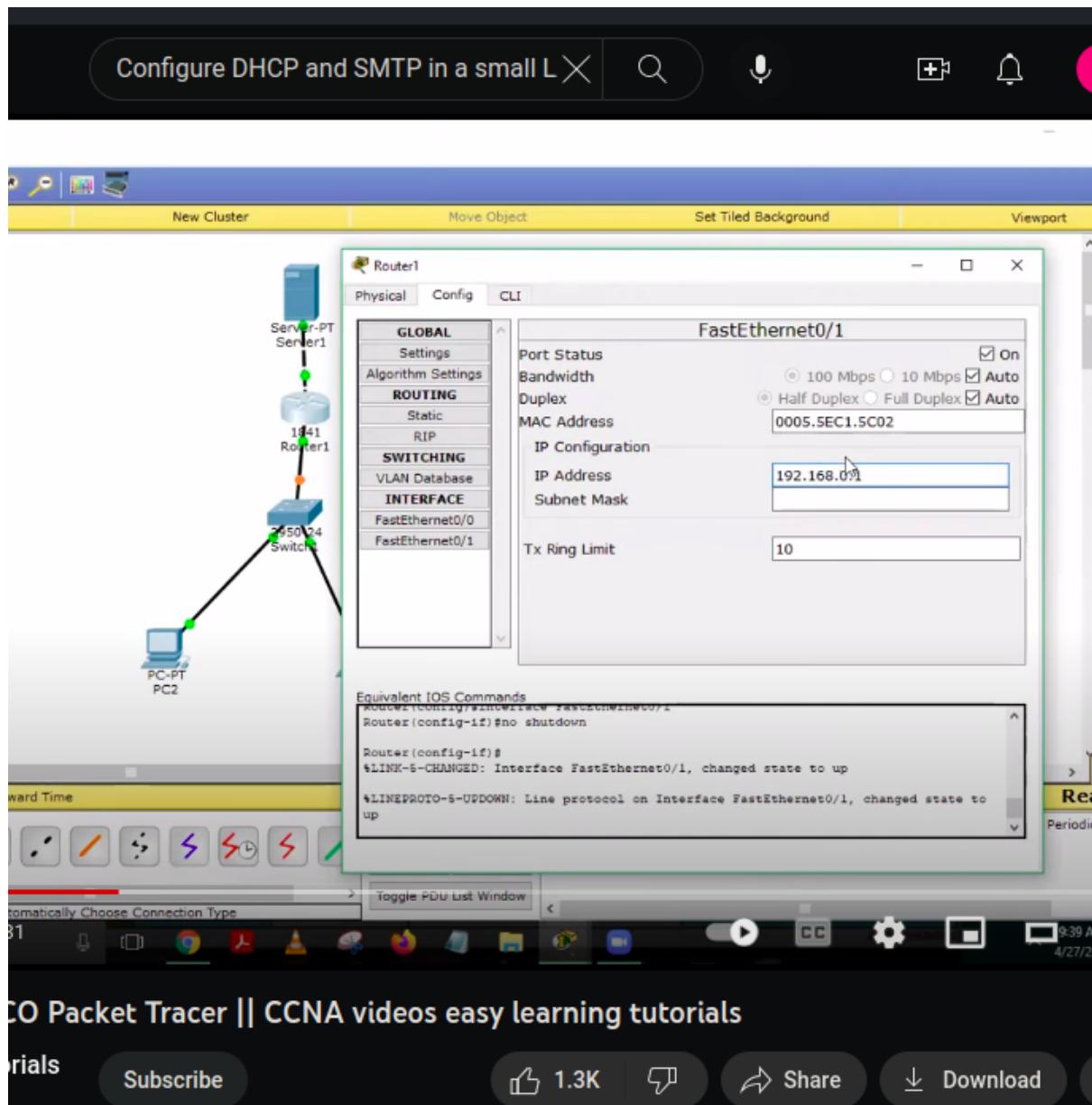
Top

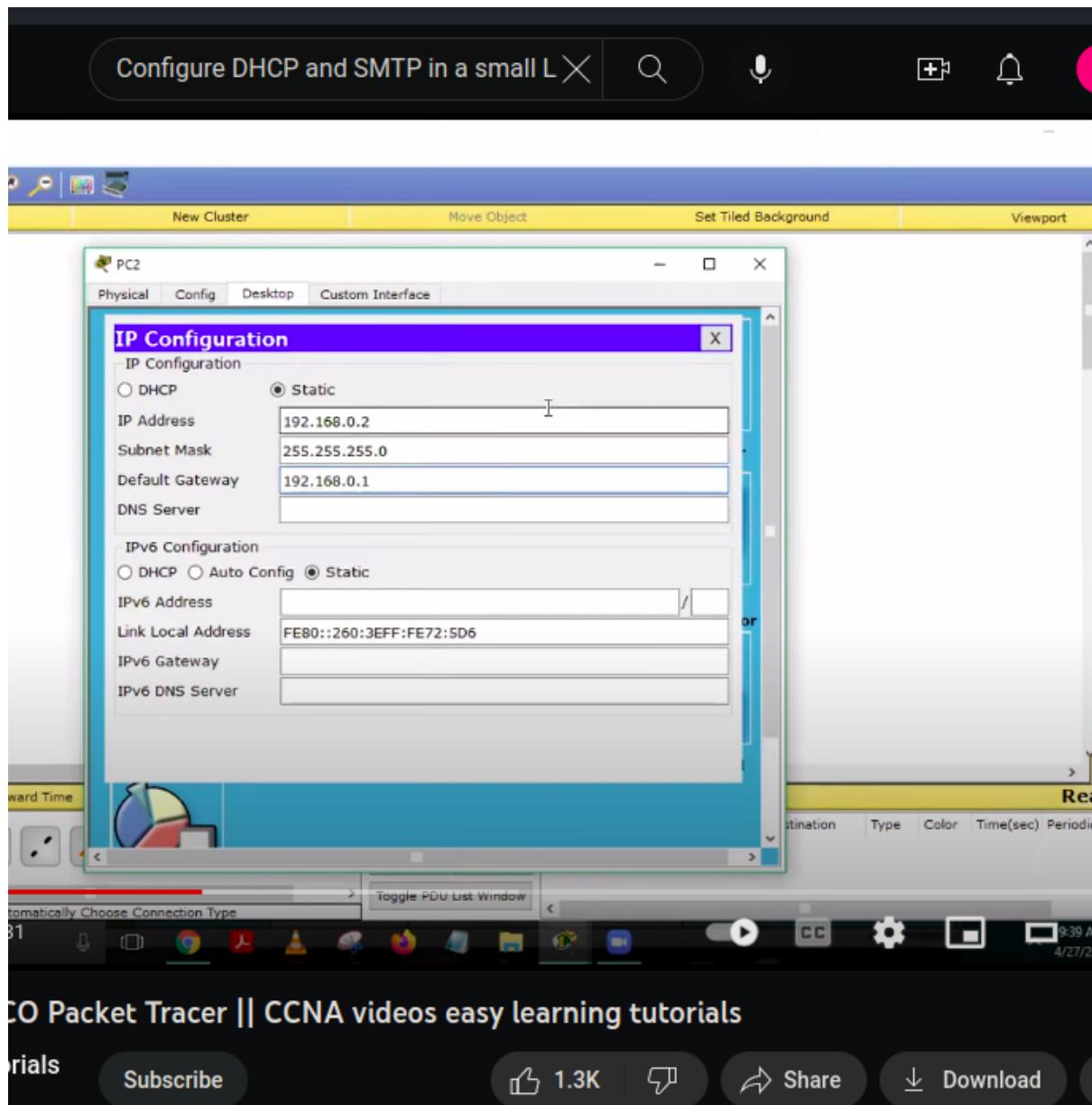


## FTP









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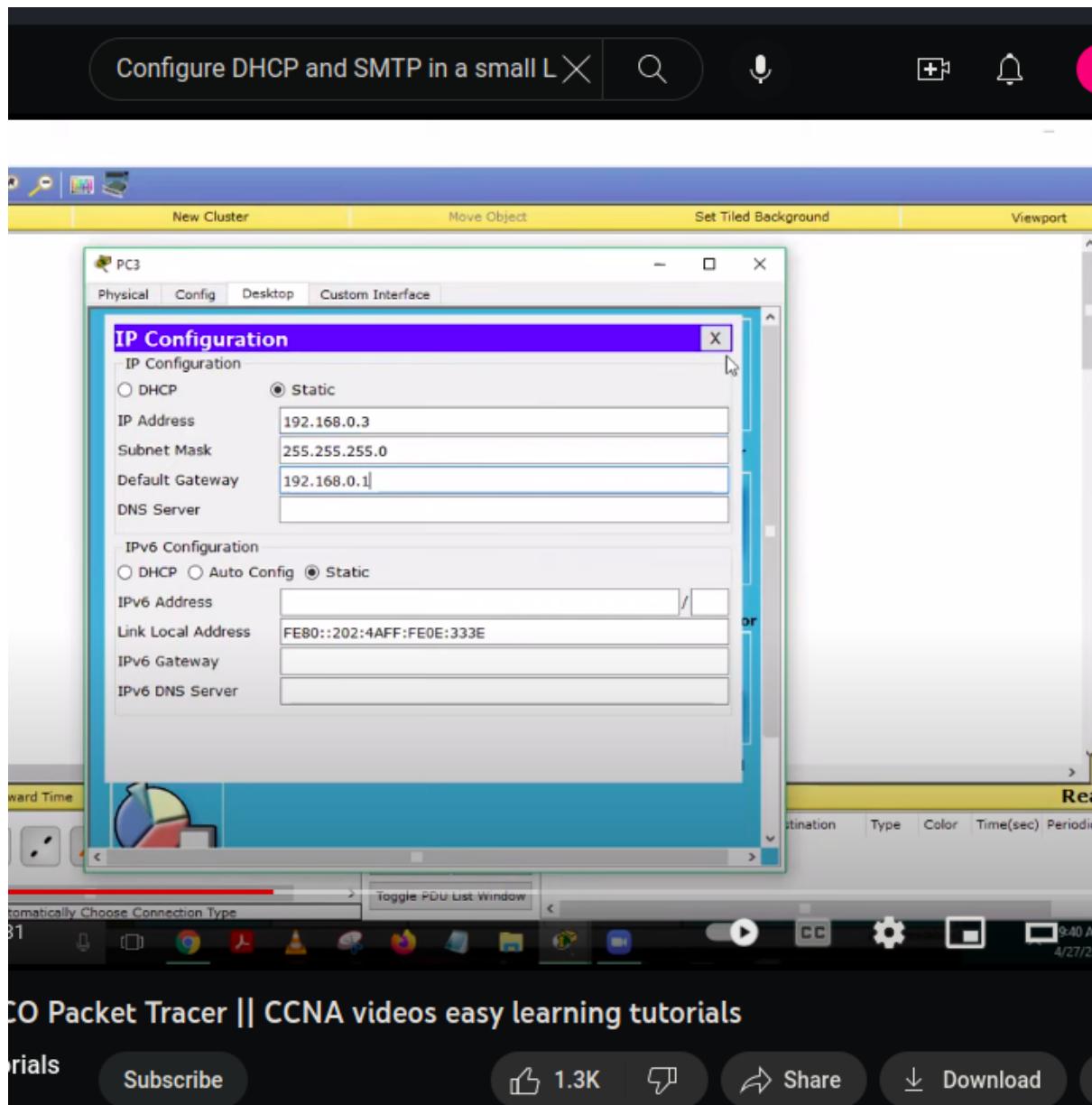
1.3K

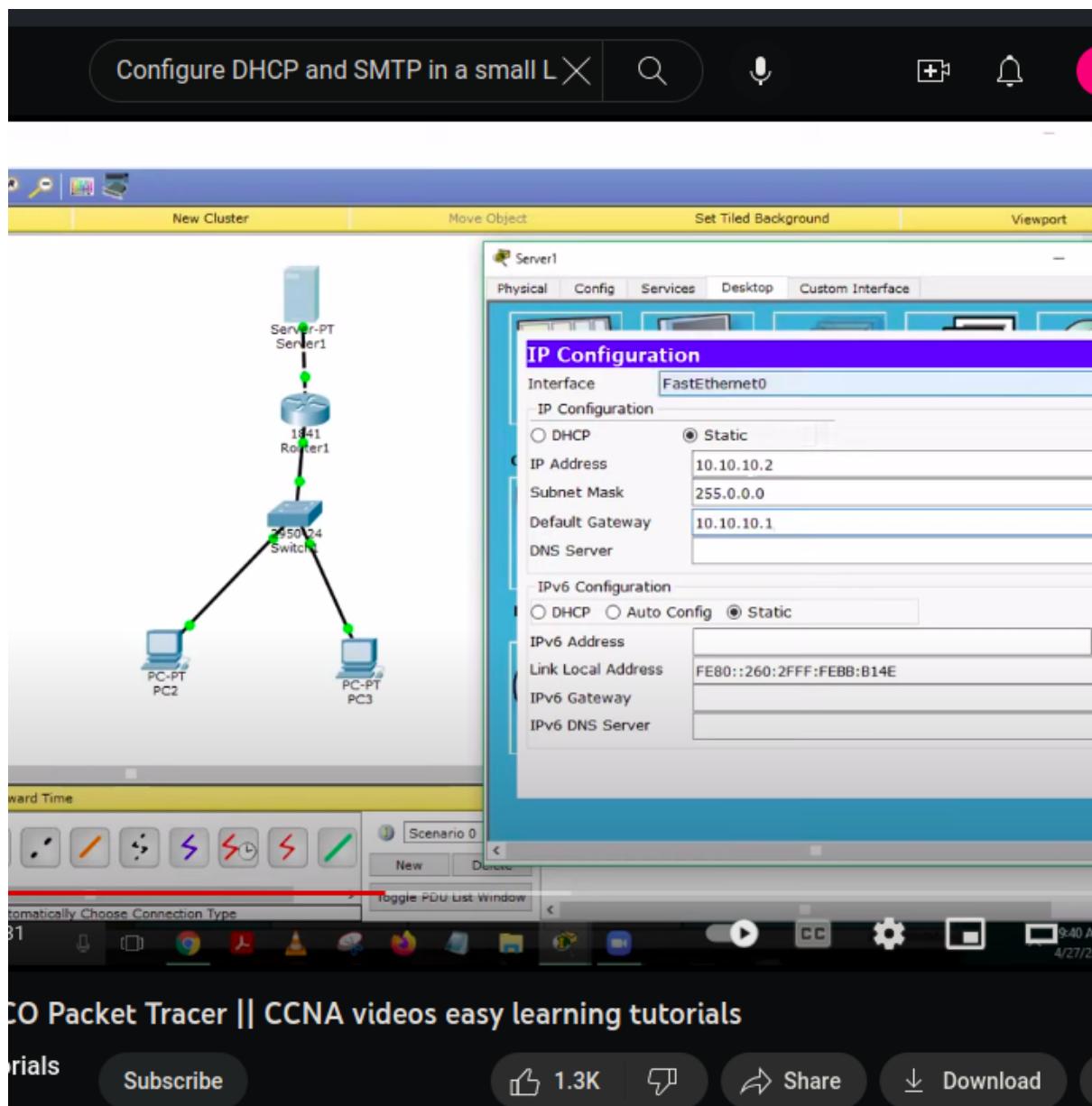


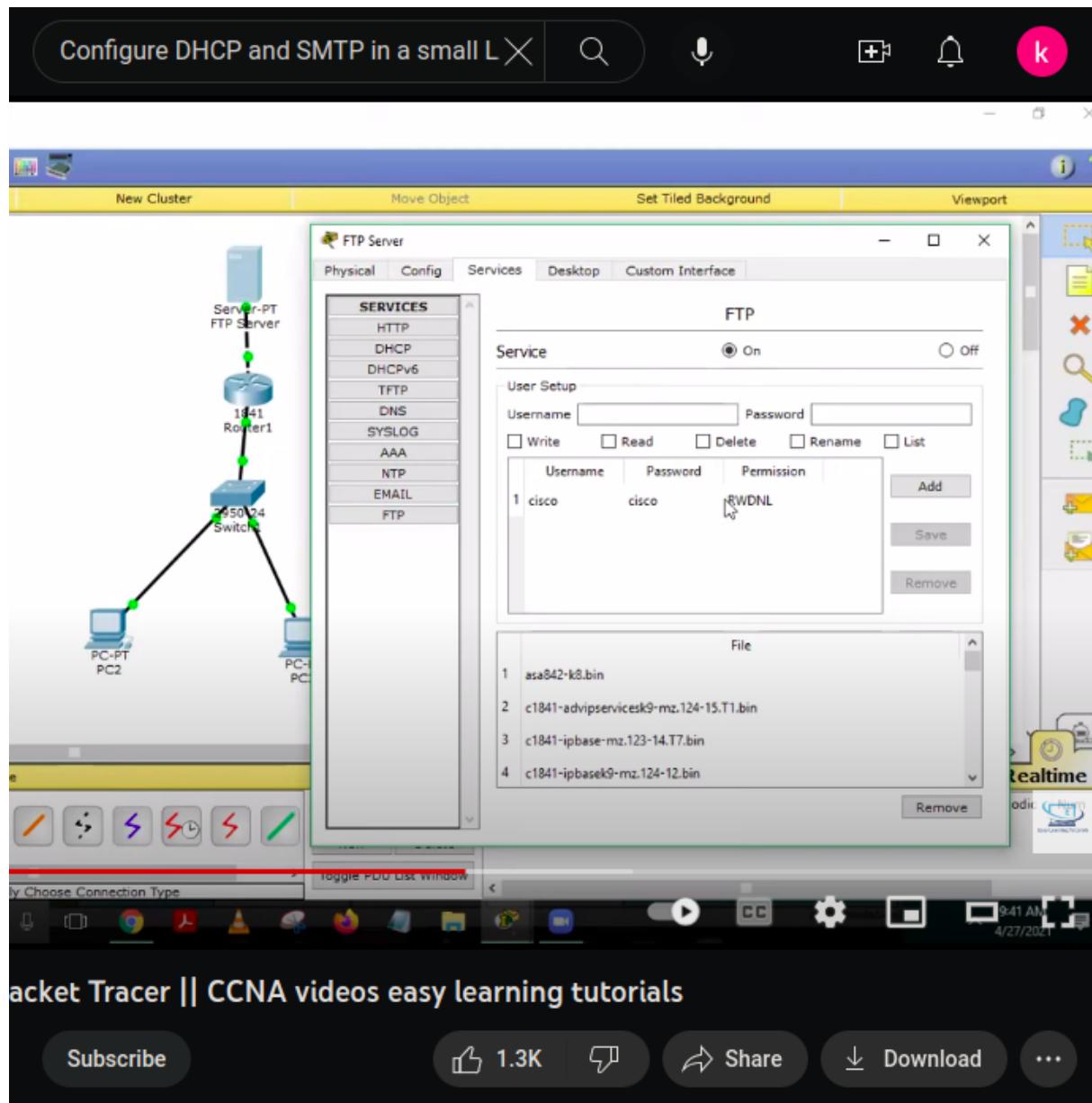
Share

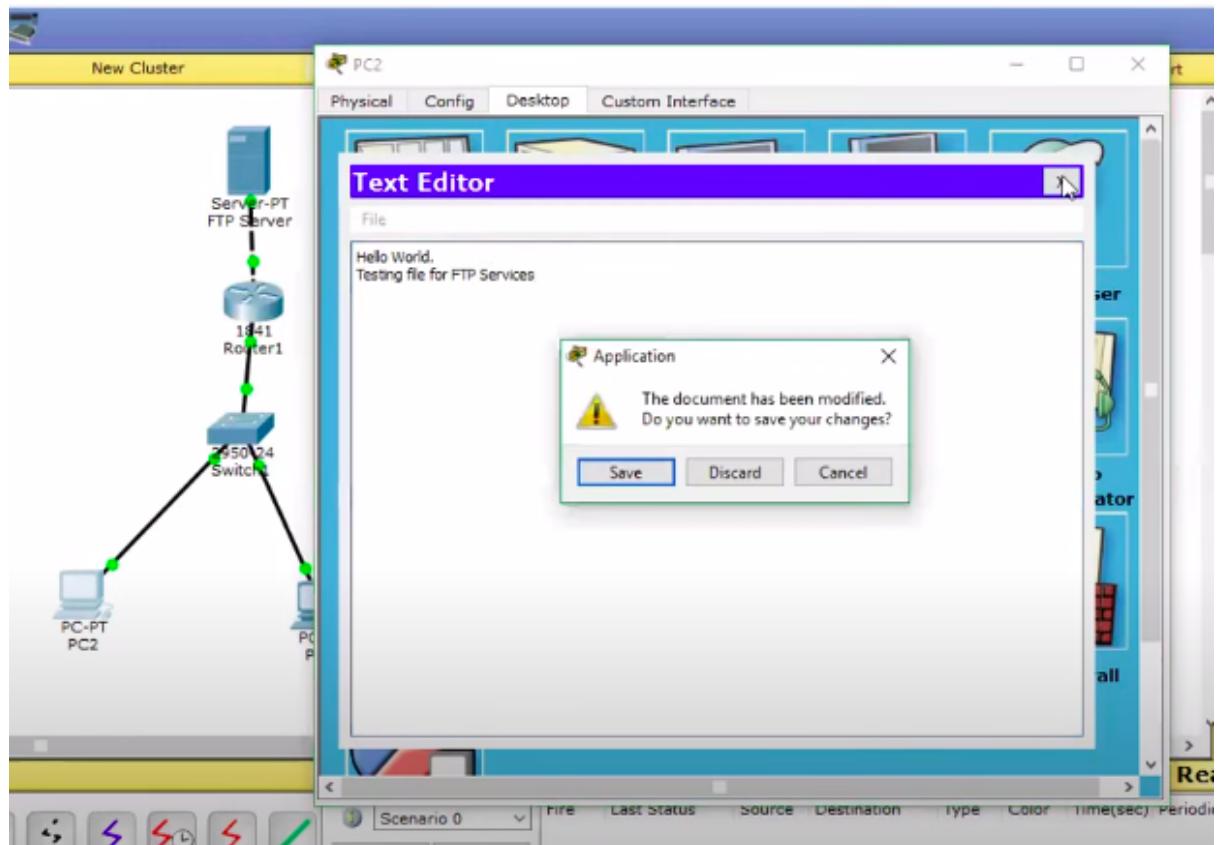
Download











PRESS [ESC] TO EXIT THIS SCREEN

PC2

Physical Config Desktop Custom Interface

**Command Prompt**

```
Reply from 10.10.10.2: bytes=32 time=0ms TTL=127
Reply from 10.10.10.2: bytes=32 time=0ms TTL=127
Reply from 10.10.10.2: bytes=32 time=0ms TTL=127

Ping statistics for 10.10.10.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 10.10.10.2

Pinging 10.10.10.2 with 32 bytes of data:

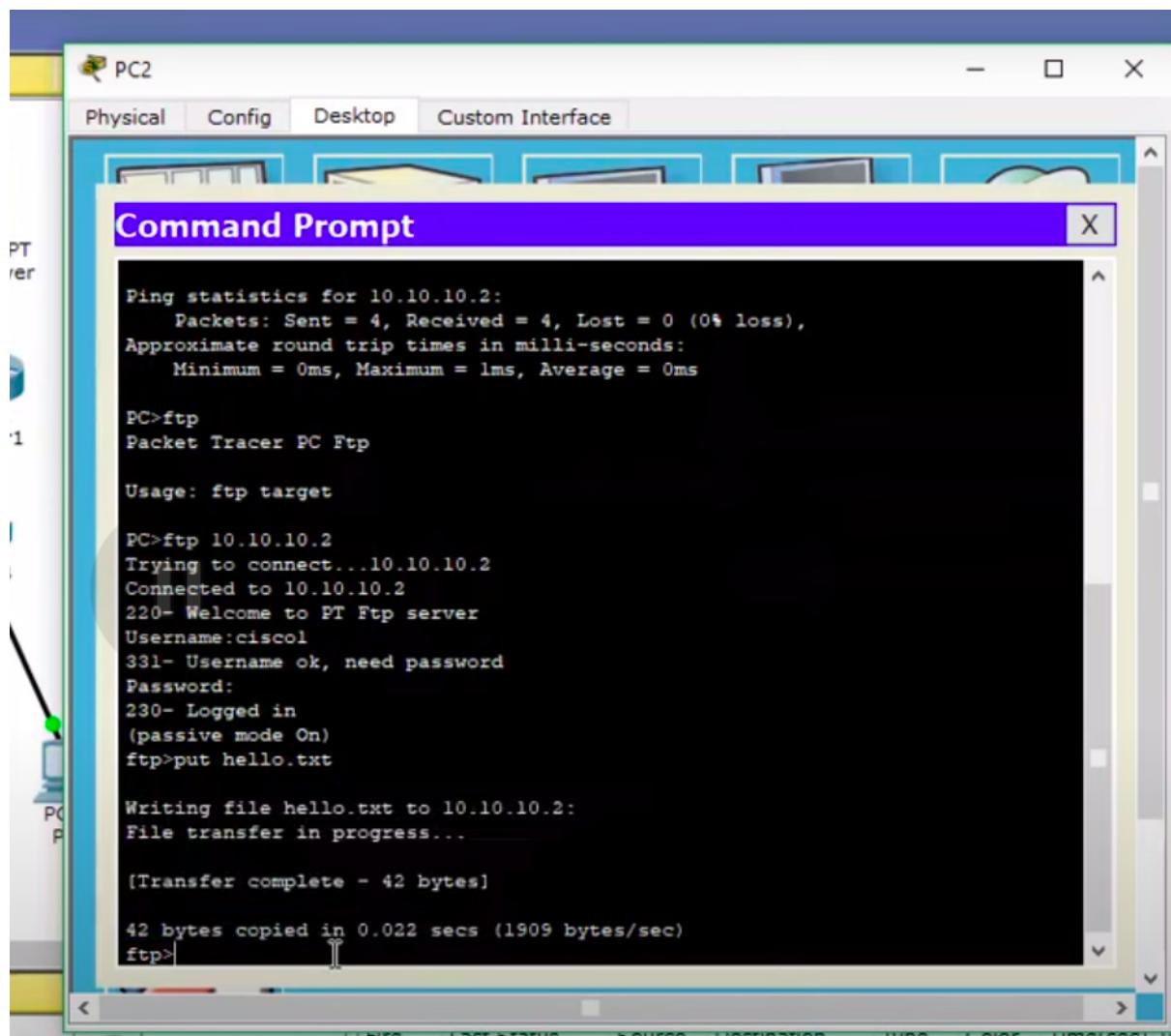
Reply from 10.10.10.2: bytes=32 time=1ms TTL=127
Reply from 10.10.10.2: bytes=32 time=0ms TTL=127
Reply from 10.10.10.2: bytes=32 time=0ms TTL=127
Reply from 10.10.10.2: bytes=32 time=1ms TTL=127

Ping statistics for 10.10.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>ftp
Packet Tracer PC Ftp

Usage: ftp target

PC>ftp 10.10.10.2
```



PC3

Physical Config Desktop Custom Interface

Command Prompt X

```
Packet Tracer PC Command Line 1.0
PC>ftp 10.10.10.2
Trying to connect...10.10.10.2
Connected to 10.10.10.2
220- Welcome to PT Ftp server
Username:ciscol
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get hello.txt

Reading file hello.txt from 10.10.10.2:
File transfer in progress...
[Transfer complete - 42 bytes]

42 bytes copied in 0.01 secs (4200 bytes/sec)
ftp>
```

