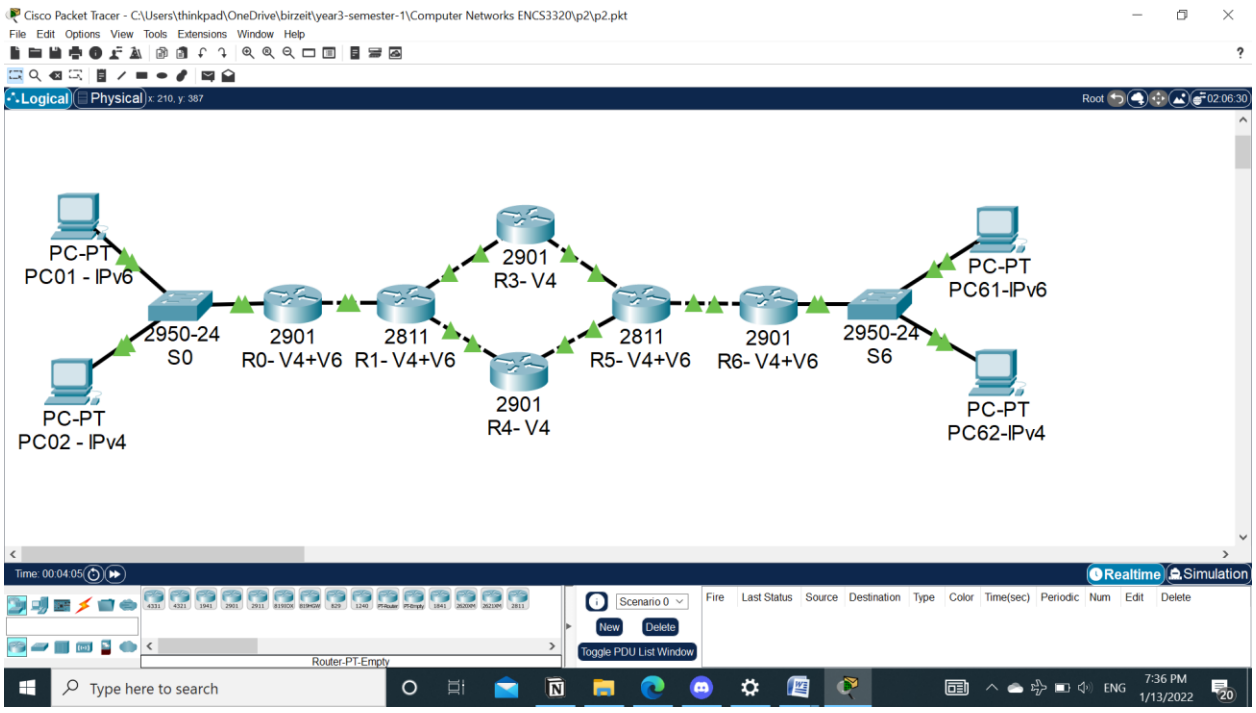
Part2:

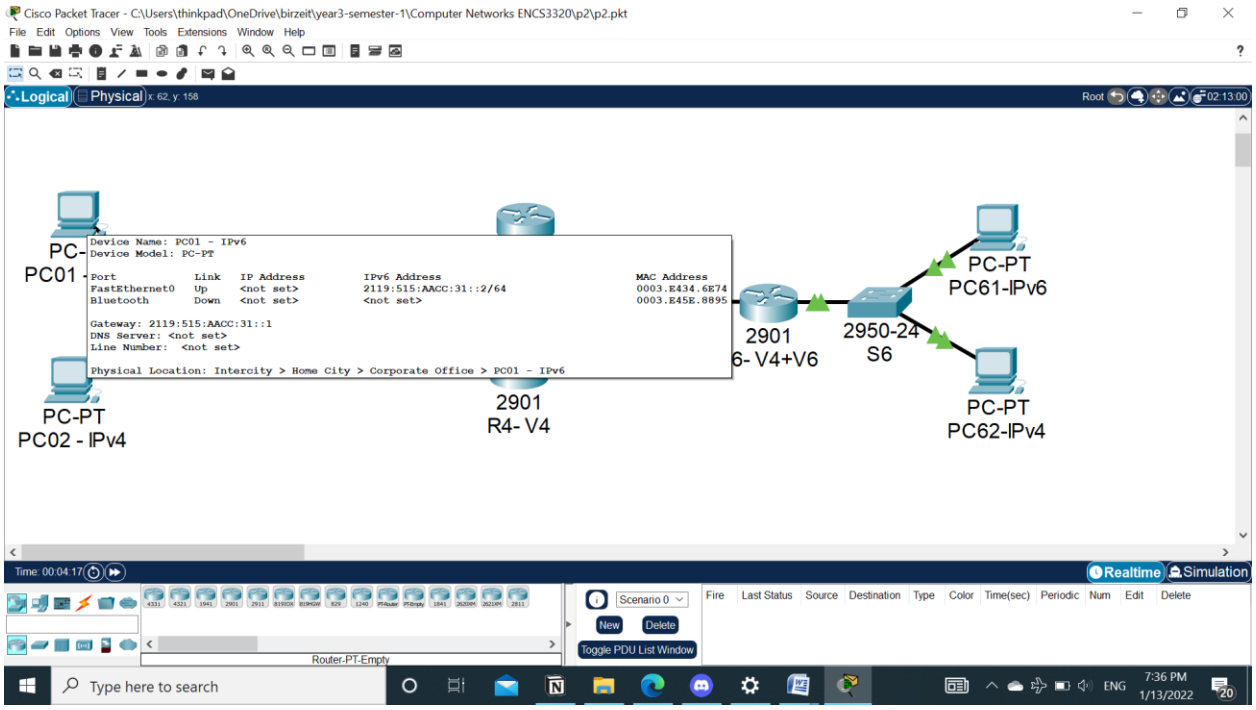
This is the network topology and IP addresses given according to the criteria mentioned on the project question sheets.

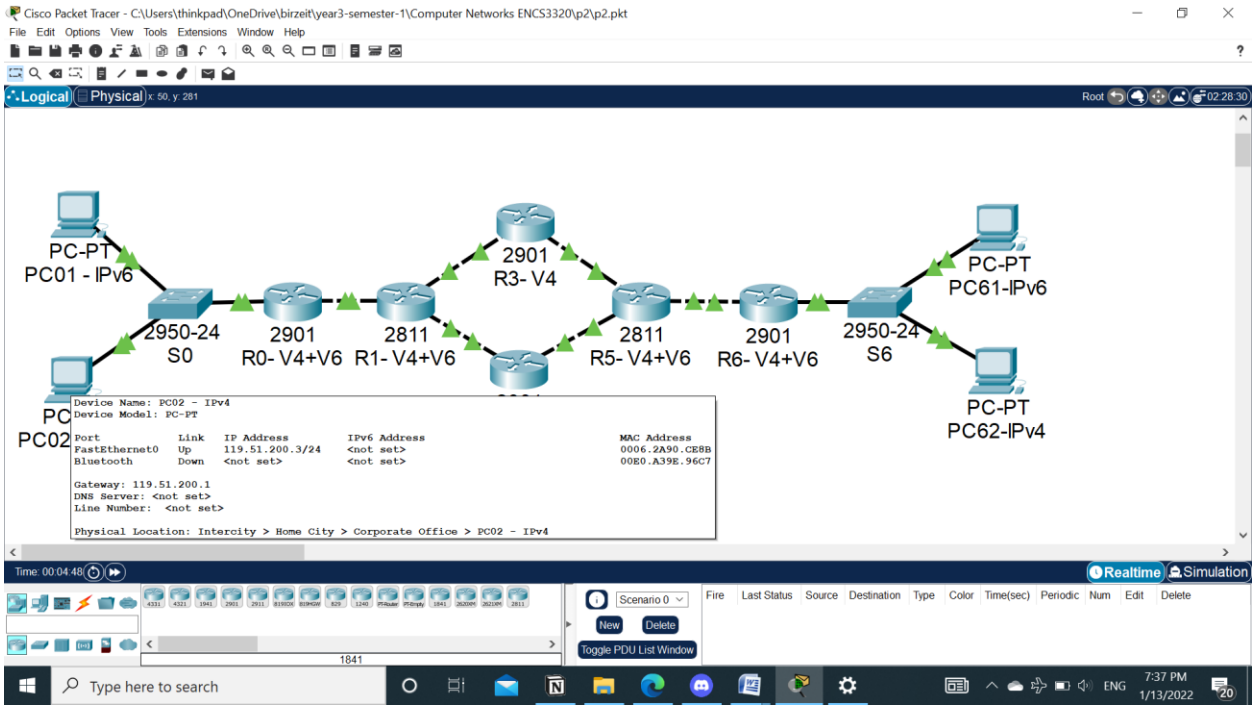
In addition, the id addresses used is tow addresses:

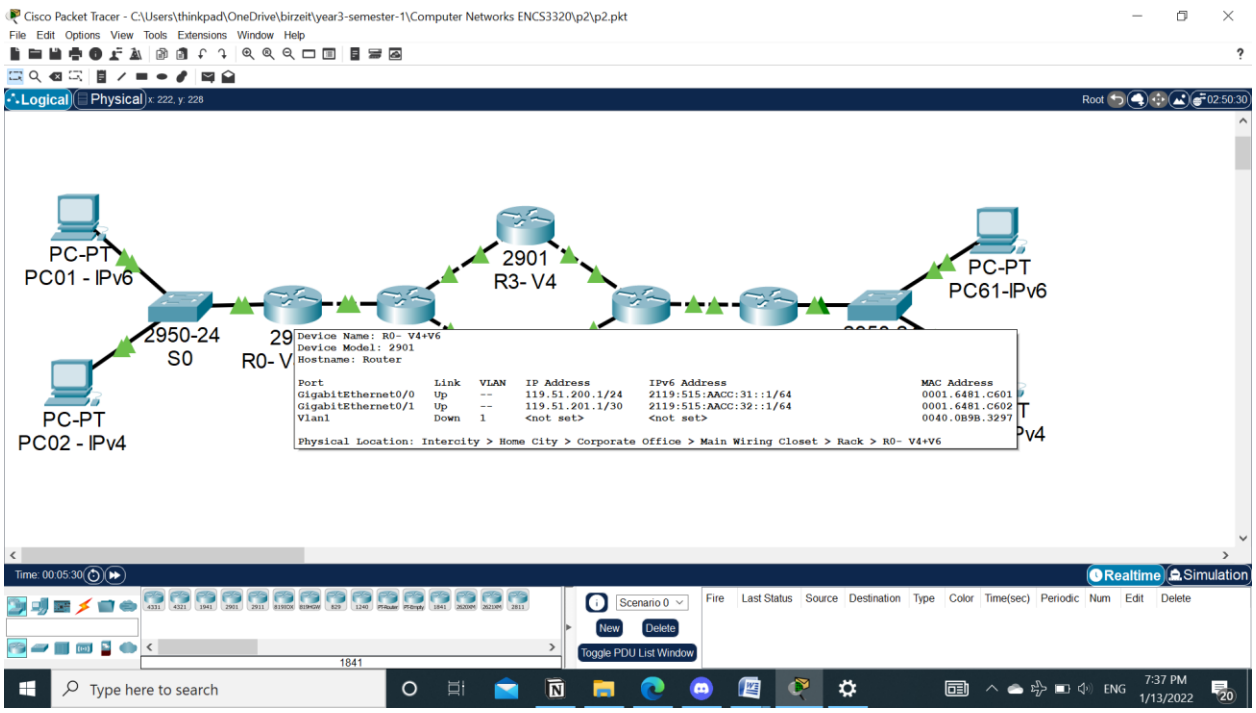
Abdallah: 1190515 → on left, Mahmmod: 1192519 → on right

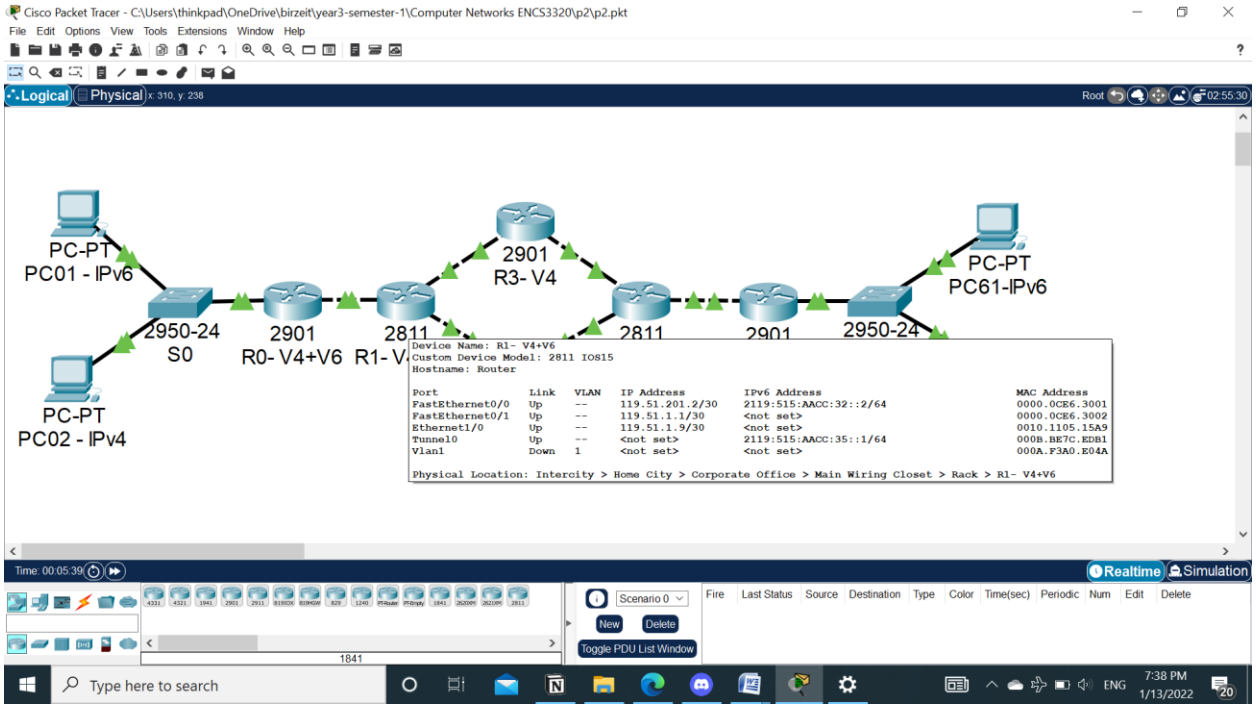


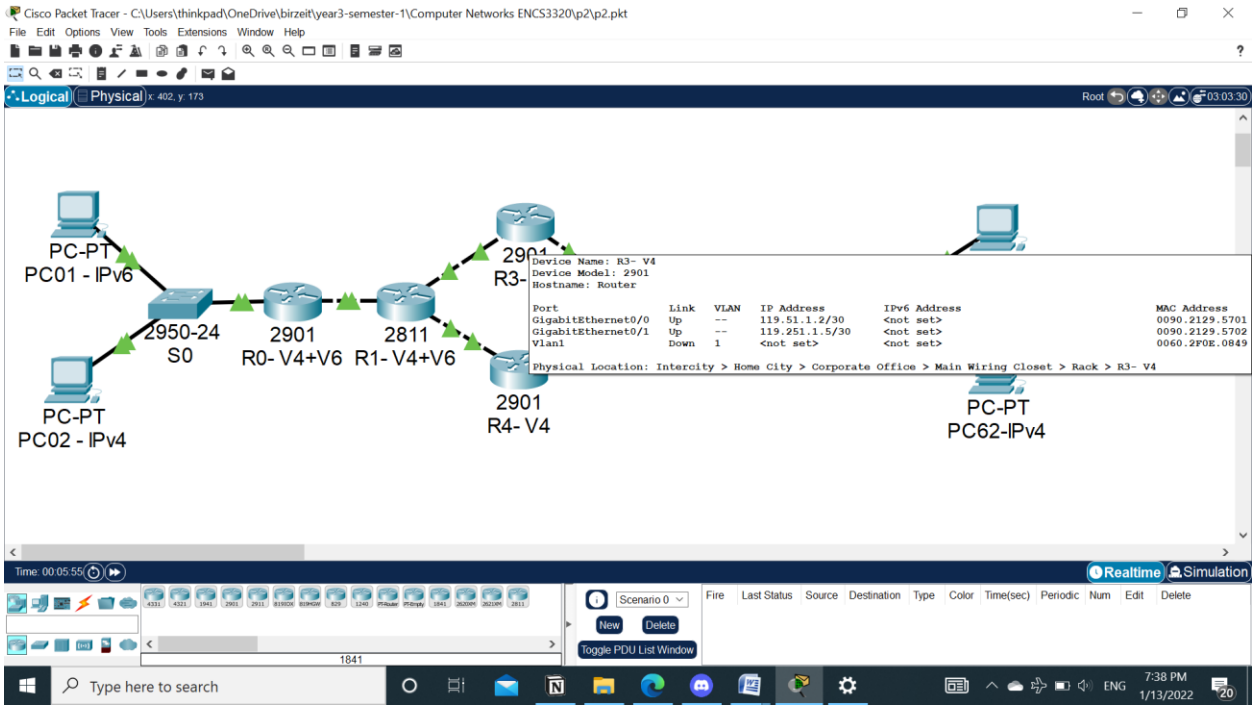
Give IP addresses

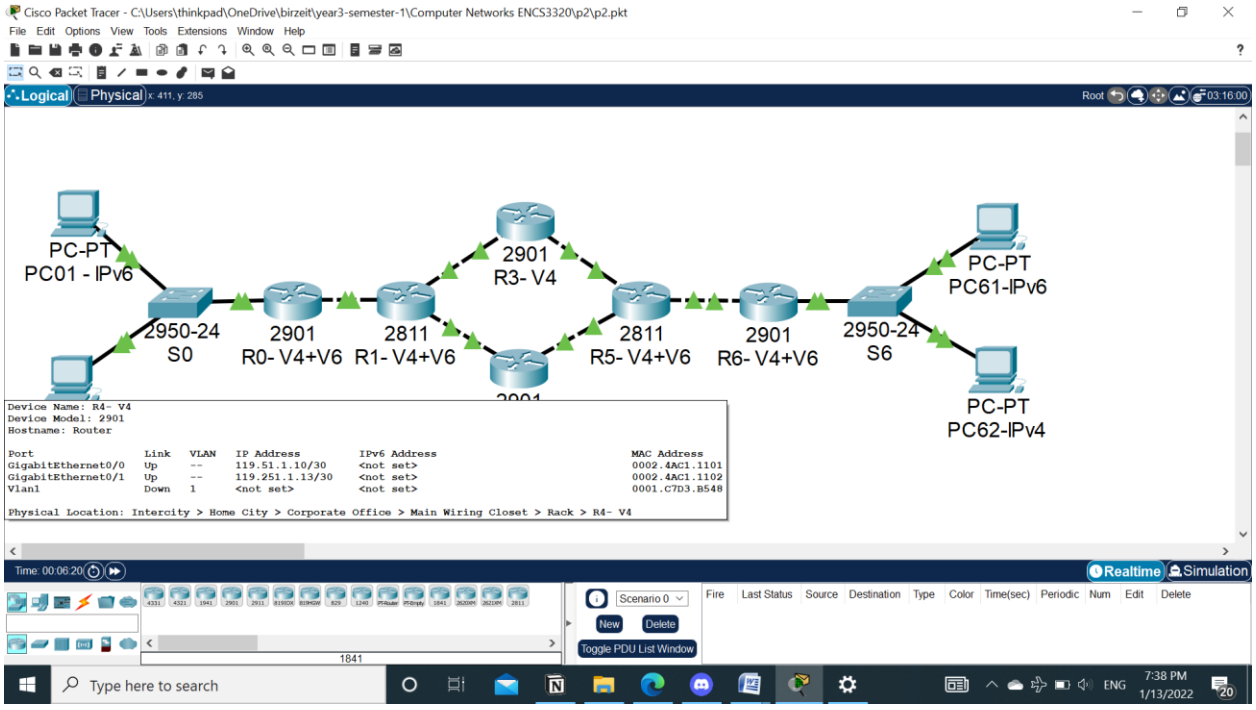


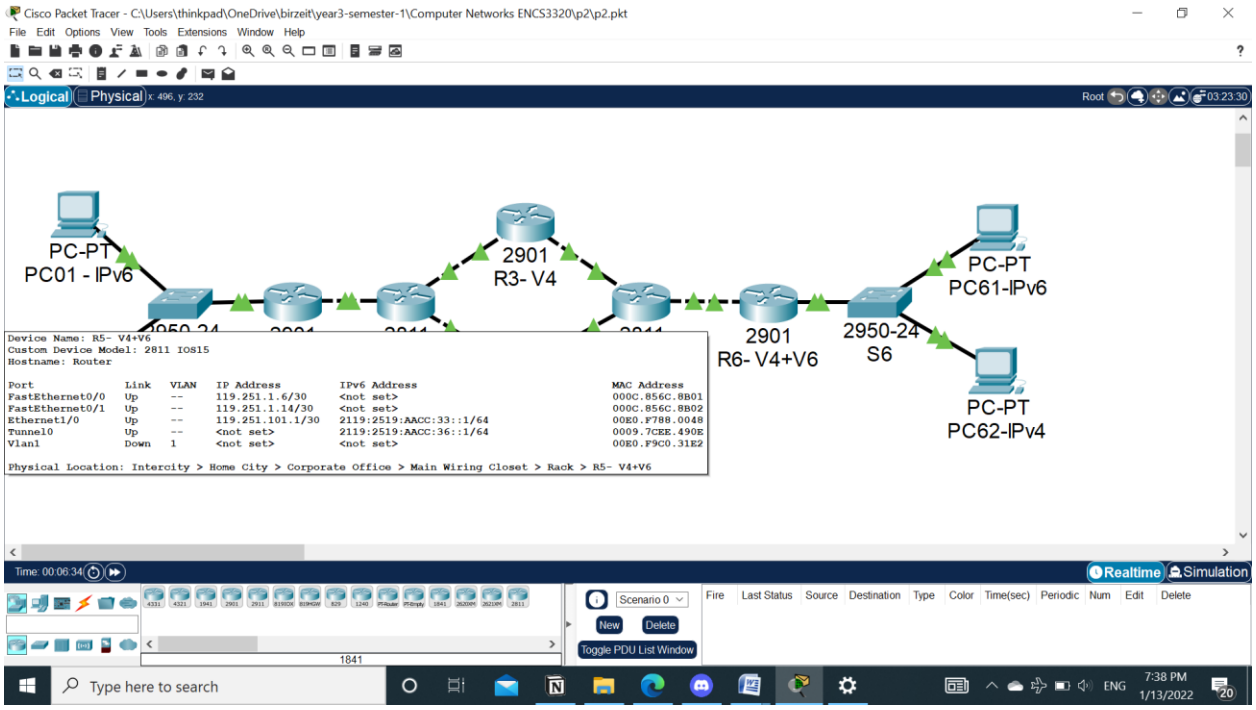


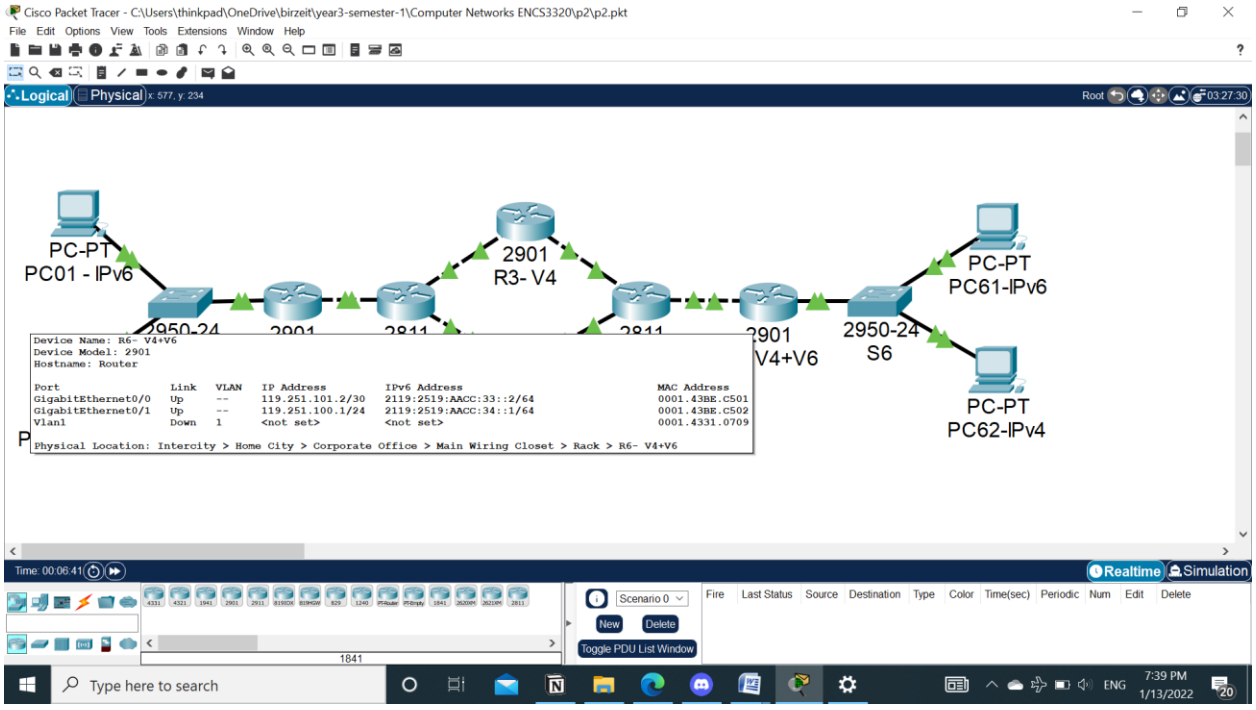

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 222, y: 228
Root 02:50:30
PC-PT
PC01 - IPv6
2950-24
S0
PC-PT
PC02 - IPv4
2901
R3- V4
PC-PT
PC61-IPv6
Device Name: R0- V4+V6
Device Model: 2901
Hostname: Router
Port Link VLAN IP Address IPv6 Address MAC Address
GigabitEthernet0/0 Up -- 119.51.200.1/24 2119:515:AACC:31::1/64 0001.6481.C601
GigabitEthernet0/1 Up -- 119.51.201.1/30 2119:515:AACC:32::1/64 0001.6481.C602
Vlan1 Down 1 <not set> <not set> 0040.0B9B.3297
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R0- V4+V6
Time: 00:05:30
Realtime Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:37 PM
1/13/2022

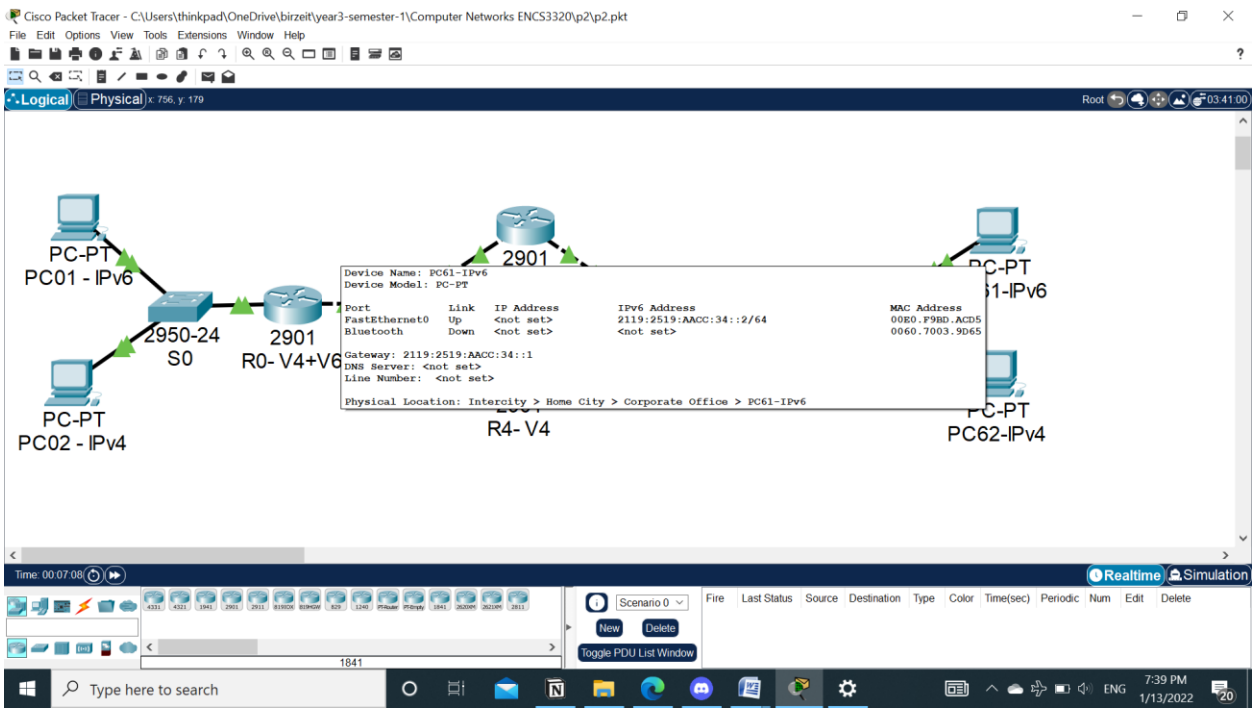

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 310, y: 238
Root 02:55:30
PC-PT
PC01 - IPv6
2950-24
S0
PC-PT
PC02 - IPv4
2901
R0- V4+V6
2811
R1- V
2901
R3- V4
2811
2901
2950-24
PC-PT
PC61-IPv6
Device Name: R1- V4+V6
Custom Device Model: 2811 IOS15
Hostname: Router
Port Link VLAN IP Address IPv6 Address MAC Address
FastEthernet0/0 Up -- 119.51.201.2/30 2119:515:AACC:32::2/64 0000.0CE6.3001
FastEthernet0/1 Up -- 119.51.1.1/30 <not set> 0000.0CE6.3002
Ethernet1/0 Up -- 119.51.1.9/30 <not set> 0010.1105.15A9
Tunnel0 Up -- <not set> 2119:515:AACC:35::1/64 000B.BE7C.EDB1
Vlan1 Down 1 <not set> <not set> 000A.F3A0.E04A
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R1- V4+V6
Time: 00:05:39
Realtime Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:38 PM
1/13/2022

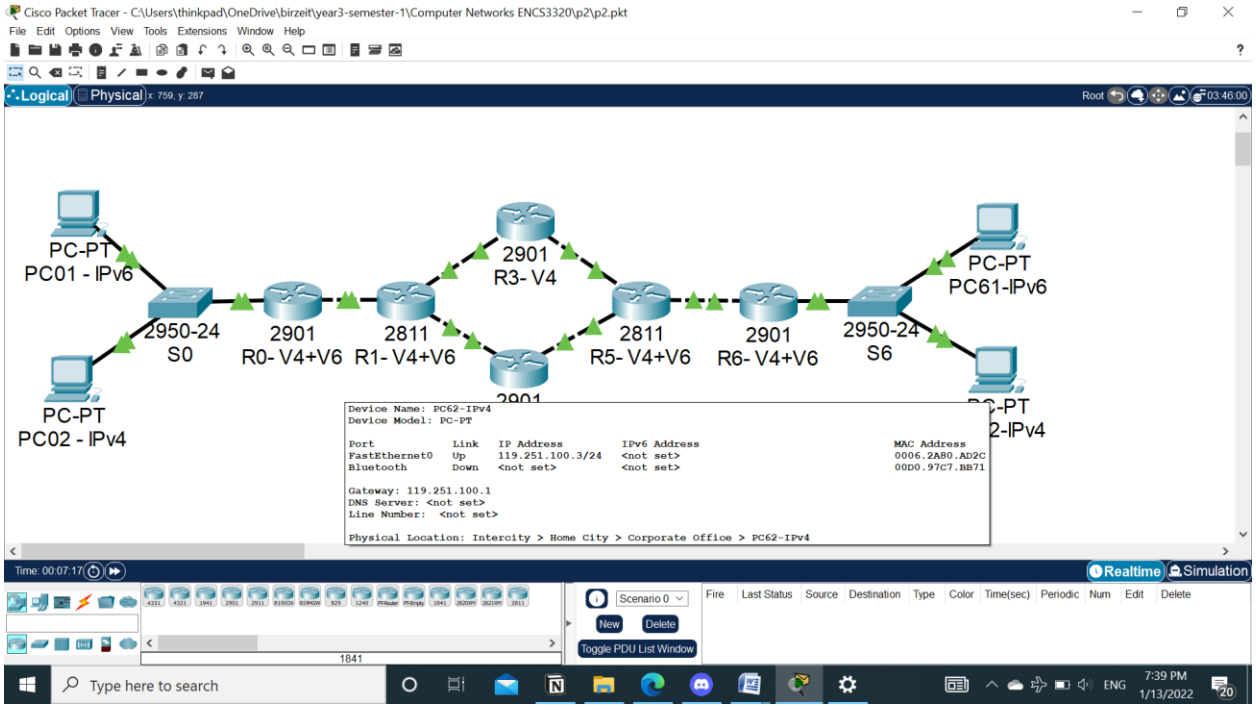

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 402, y: 173
Root 03:03:30
PC-PT
PC01 - IPv6
2950-24
S0
2901
R0- V4+V6
2811
R1- V4+V6
2901
R3-
2901
R4- V4
PC-PT
PC02 - IPv4
PC-PT
PC62-IPv4
Device Name: R3- V4
Device Model: 2901
Hostname: Router
Port Link VLAN IP Address IPv6 Address MAC Address
GigabitEthernet0/0 Up -- 119.51.1.2/30 <not set> 0090.2129.5701
GigabitEthernet0/1 Up -- 119.251.1.5/30 <not set> 0090.2129.5702
Vlan1 Down 1 <not set> <not set> 0060.2F0E.0849
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R3- V4
Time: 00:05:55
Realtime Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:38 PM
1/13/2022


Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 411, y: 285
Root 03:16:00
PC-PT
PC01 - IPv6
2950-24
S0
2901
R0- V4+V6
2811
R1- V4+V6
2901
R3- V4
2811
R5- V4+V6
2901
R6- V4+V6
2950-24
S6
PC-PT
PC61-IPv6
PC-PT
PC62-IPv4
Device Name: R4- V4
Device Model: 2901
Hostname: Router
Port Link VLAN IP Address IPv6 Address MAC Address
GigabitEthernet0/0 Up -- 119.51.1.10/30 <not set> 0002.4AC1.1101
GigabitEthernet0/1 Up -- 119.251.1.13/30 <not set> 0002.4AC1.1102
Vlan1 Down 1 <not set> <not set> 0001.C7D3.B548
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R4- V4
Time: 00:06:20
Realtime Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:38 PM
1/13/2022

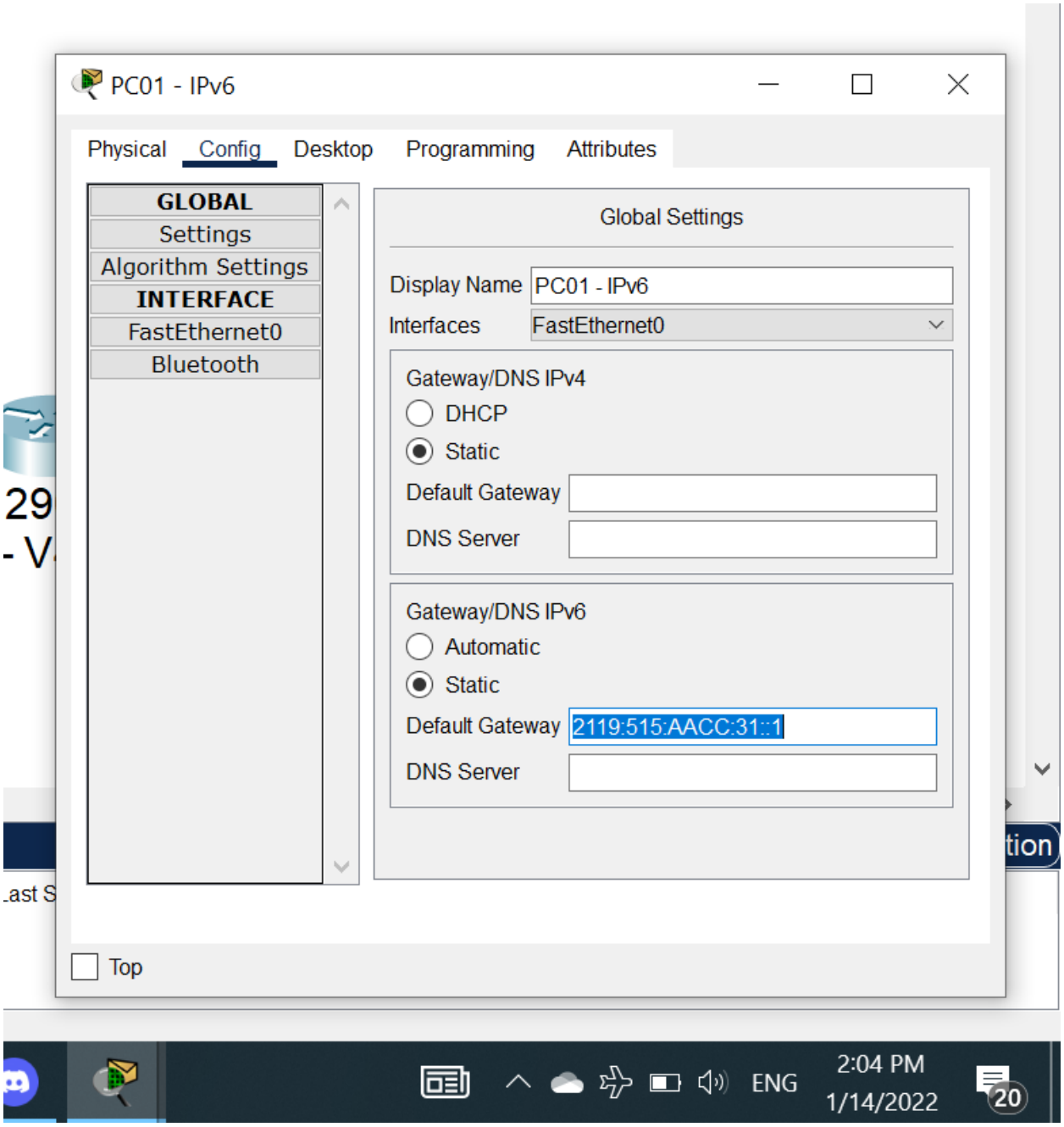

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 496, y: 232
Root 03:23:30
PC-PT
PC01 - IPv6
2901
R3- V4
PC-PT
PC61-IPv6
2901
R6- V4+V6
2950-24
S6
PC-PT
PC62-IPv4
Device Name: R5- V4+V6
Custom Device Model: 2811 IOS15
Hostname: Router
Port Link VLAN IP Address IPv6 Address MAC Address
FastEthernet0/0 Up -- 119.251.1.6/30 <not set> 000C.856C.8B01
FastEthernet0/1 Up -- 119.251.1.14/30 <not set> 000C.856C.8B02
Ethernet1/0 Up -- 119.251.101.1/30 2119:2519:AACC:33::1/64 00E0.F788.0048
Tunnel0 Up -- <not set> 2119:2519:AACC:36::1/64 0009.7CEE.490E
Vlan1 Down 1 <not set> <not set> 00E0.F9C0.31E2
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R5- V4+V6
Time: 00:06:34
Realtime Simulation
Scenario 0
New Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:38 PM
1/13/2022

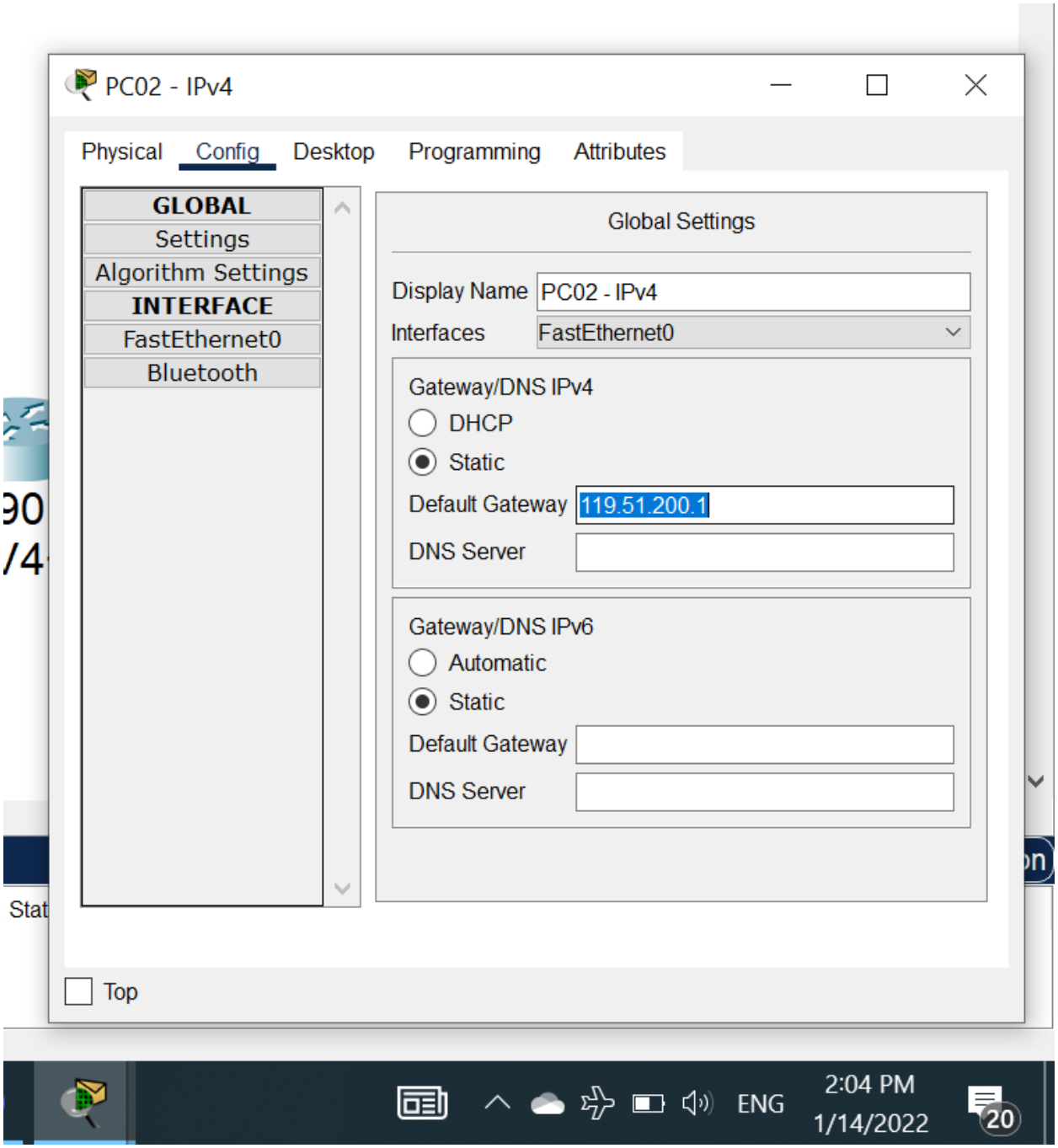

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 577, y: 234
Root 03:27:30
PC-PT
PC01 - IPv6
2901
R3- V4
PC-PT
PC61-IPv6
2901
V4+V6
2950-24
S6
PC-PT
PC62-IPv4
Device Name: R6- V4+V6
Device Model: 2901
Hostname: Router
Port Link VLAN IP Address IPv6 Address MAC Address
GigabitEthernet0/0 Up -- 119.251.101.2/30 2119:2519:AACC:33::2/64 0001.43BE.C501
GigabitEthernet0/1 Up -- 119.251.100.1/24 2119:2519:AACC:34::1/64 0001.43BE.C502
Vlan1 Down 1 <not set> <not set> 0001.4331.0709
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R6- V4+V6
Time: 00:06:41
Realtime Simulation
Scenario 0
New Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:39 PM
1/13/2022

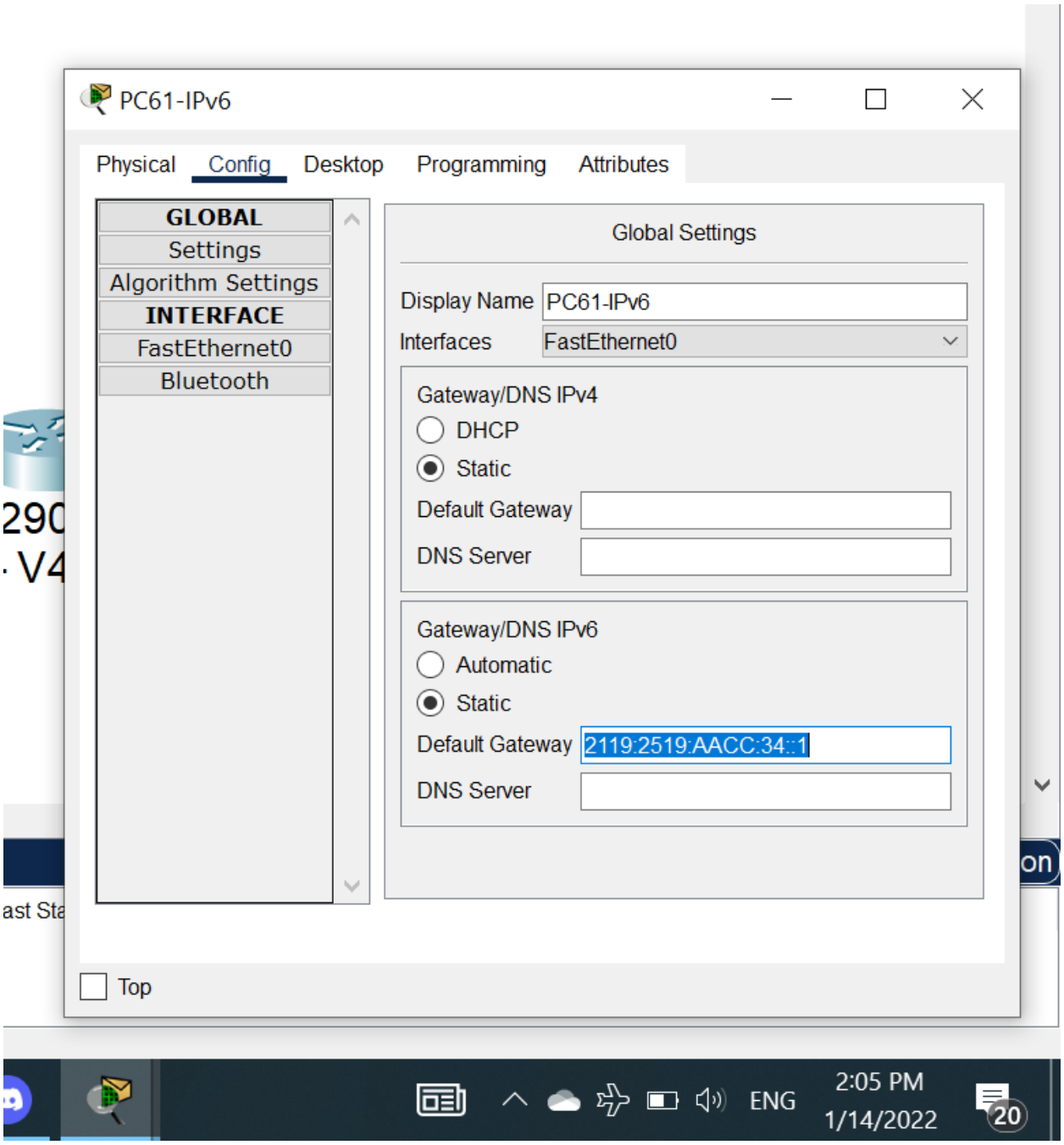

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 756, y: 179
Root 03:41:00
PC-PT
PC01 - IPv6
2950-24
S0
2901
R0- V4+V6
2901
R4- V4
PC-PT
PC02 - IPv4
PC-PT
PC62-IPv4
Device Name: PC61-IPv6
Device Model: PC-PT
Port Link IP Address IPv6 Address MAC Address
FastEthernet0 Up <not set> 2119:2519:AACC:34::2/64 00E0.F9BD.ACD5
Bluetooth Down <not set> <not set> 0060.7003.9D65
Gateway: 2119:2519:AACC:34::1
DNS Server: <not set>
Line Number: <not set>
Physical Location: Intercity > Home City > Corporate Office > PC61-IPv6
Time: 00:07:08
Realtime Simulation
Scenario 0
New Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:39 PM
1/13/2022

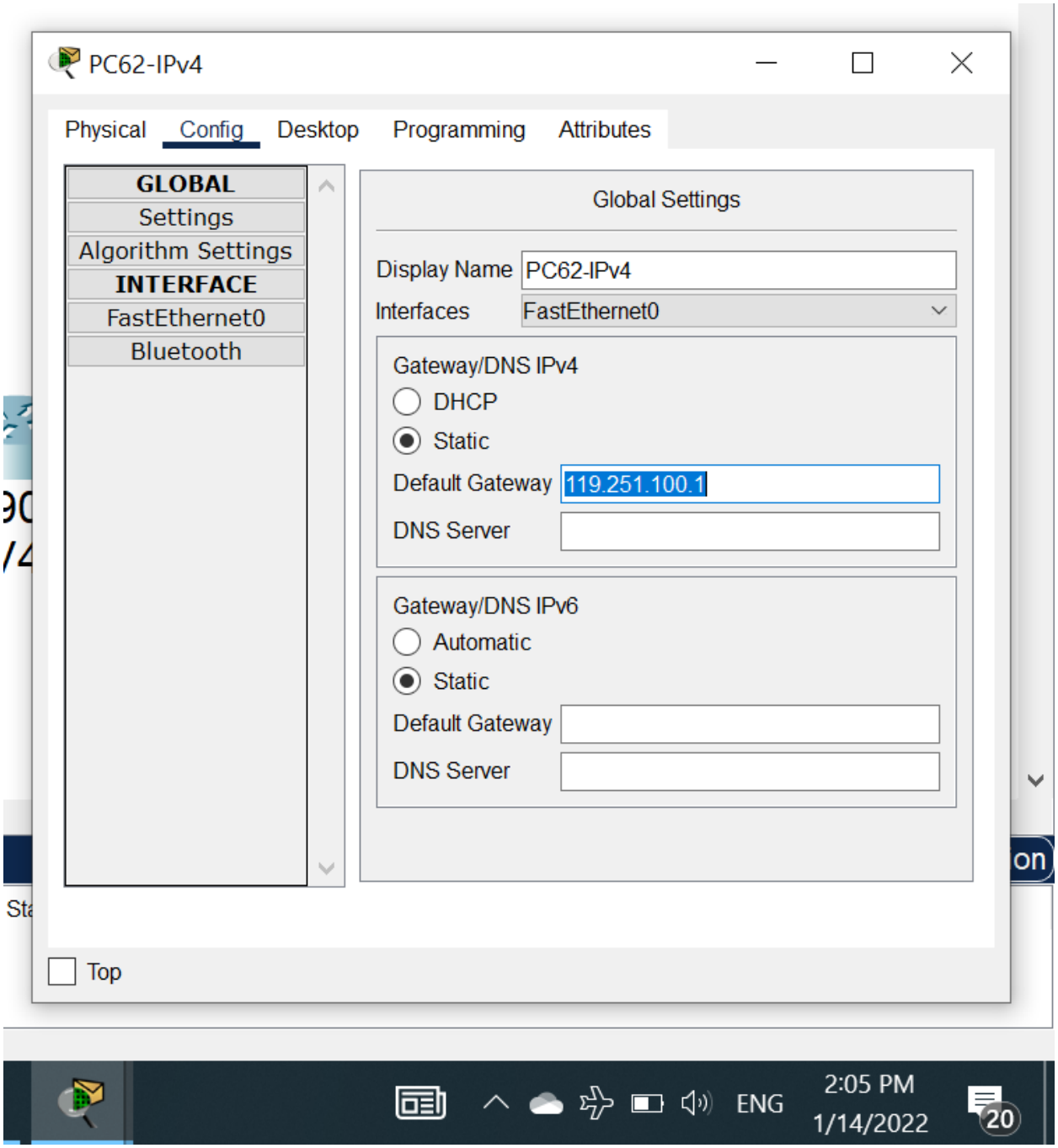

Cisco Packet Tracer - C:\Users\thinkpad\OneDrive\birzeit\year3-semester-1\Computer Networks ENCS3320\p2\p2.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 759, y: 287
Root 03:46:00
PC-PT
PC01 - IPv6
2950-24
S0
2901
R0- V4+V6
2811
R1- V4+V6
2901
R3- V4
2811
R5- V4+V6
2901
R6- V4+V6
2950-24
S6
PC-PT
PC61-IPv6
PC-PT
PC02 - IPv4
Device Name: PC62-IPv4
Device Model: PC-PT
Port Link IP Address IPv6 Address MAC Address
FastEthernet0 Up 119.251.100.3/24 <not set> 0006.2A80.AD2C
Bluetooth Down <not set> <not set> 00D0.97C7.BB71
Gateway: 119.251.100.1
DNS Server: <not set>
Line Number: <not set>
Physical Location: Intercity > Home City > Corporate Office > PC62-IPv4
Time: 00:07:17
Realtime Simulation
Scenario 0
New Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
1841
Type here to search
ENG
7:39 PM
1/13/2022

Set gateway for each PC, where gateway equals the IP for router interface in local network




PC02 - IPv4
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
Global Settings
Display Name
PC02 - IPv4
Interfaces
FastEthernet0
Gateway/DNS IPv4
DHCP
Static
Default Gateway
119.51.200.1
DNS Server
Gateway/DNS IPv6
Automatic
Static
Default Gateway
DNS Server
Top
ENG
2:04 PM
1/14/2022
20


PC61-IPv6
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
Global Settings
Display Name
PC61-IPv6
Interfaces
FastEthernet0
Gateway/DNS IPv4
DHCP
Static
Default Gateway
DNS Server
Gateway/DNS IPv6
Automatic
Static
Default Gateway
2119:2519:AACC:34::1
DNS Server
Top
ENG
2:05 PM
1/14/2022
20


PC62-IPv4
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
Global Settings
Display Name
PC62-IPv4
Interfaces
FastEthernet0
Gateway/DNS IPv4
DHCP
Static
Default Gateway
119.251.100.1
DNS Server
Gateway/DNS IPv6
Automatic
Static
Default Gateway
DNS Server
Top
ENG
2:05 PM
1/14/2022
20

Then enable the ‘OSP’ on every router and set the network to one area.

The commands: router ospf 1, network 0.0.0.0 255.255.255.255 area 0

For ipv6 this command for each router: ipv6 unicast-routing

And for each interface: ipv6 ospf 1 area 0

Create the tunnel after that for R1 and R5:

By write this commands for both:-

Create the tunnel → interface tunnel 0

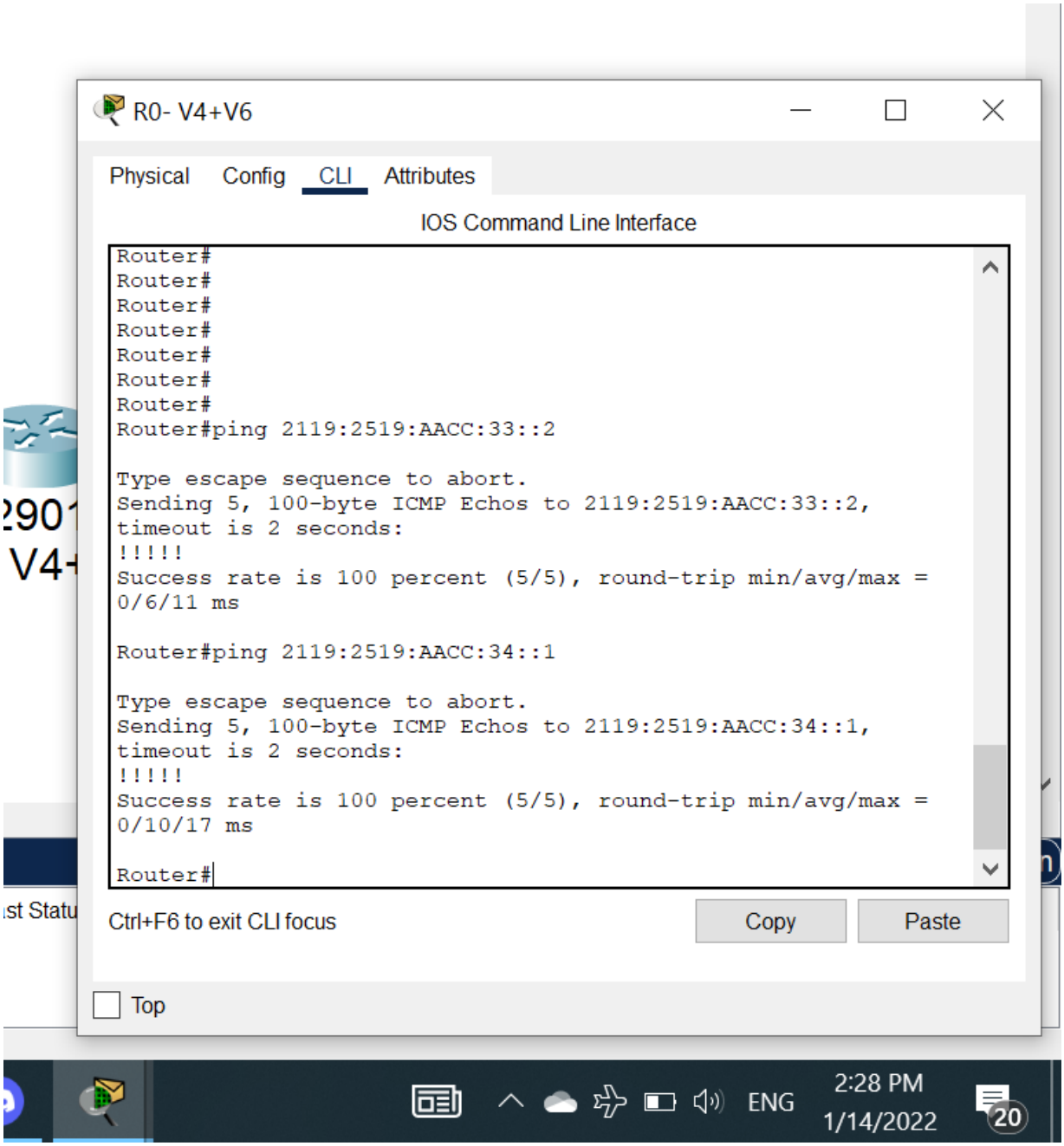
Set source → tunnel source ‘ipv4 interface name on the router’

Set destination → tunnel destination ‘ipv4 interface name on other ipv6 router’

Tunnel mode → tunnel mode ipv6ip → “to convert from ipv6 to ipv4”

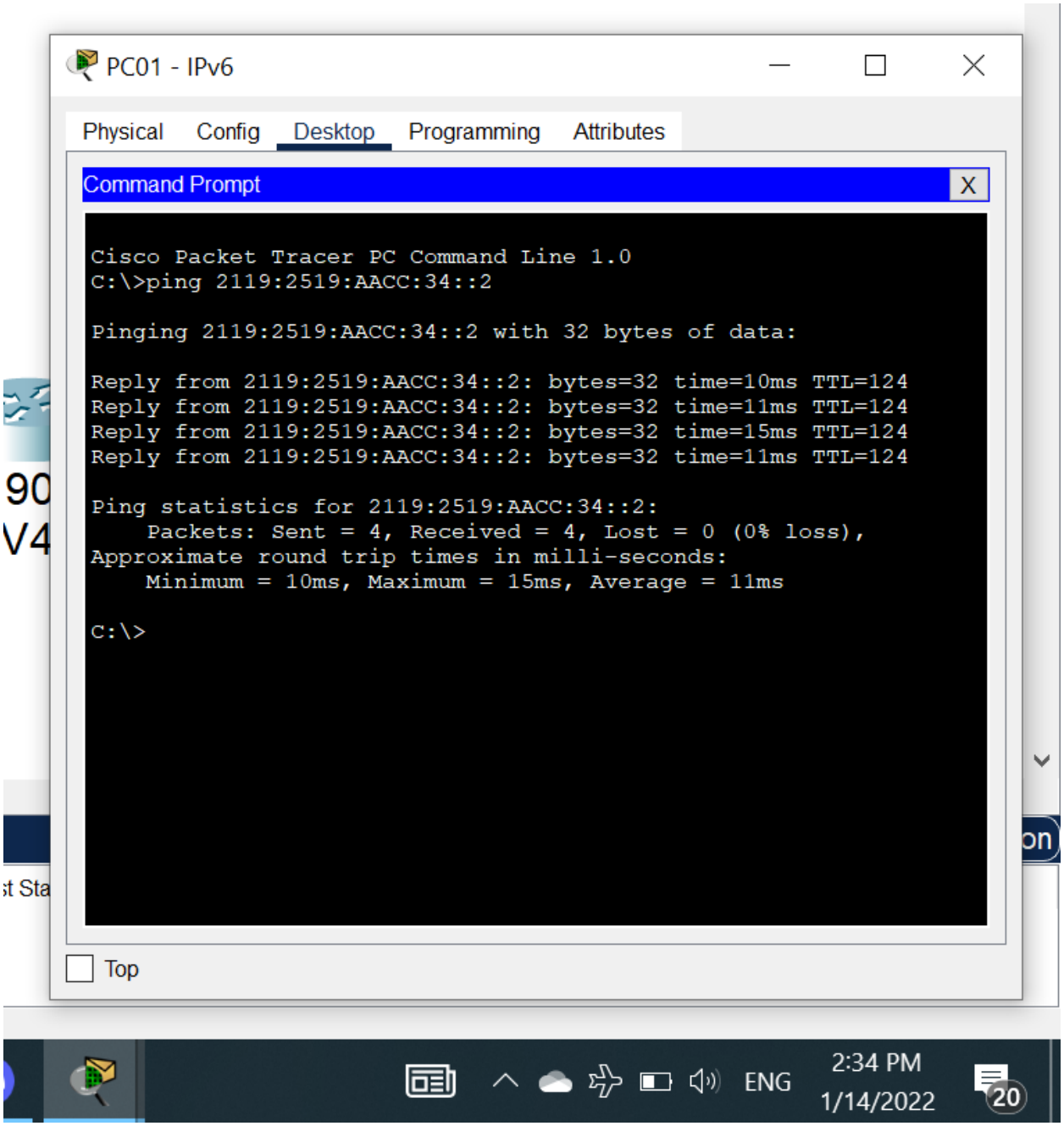
Set OSP for tunnel → ipv6 ospf 1 area 0

Ping from R0 to IPv6 addresses on R6 interfaces:



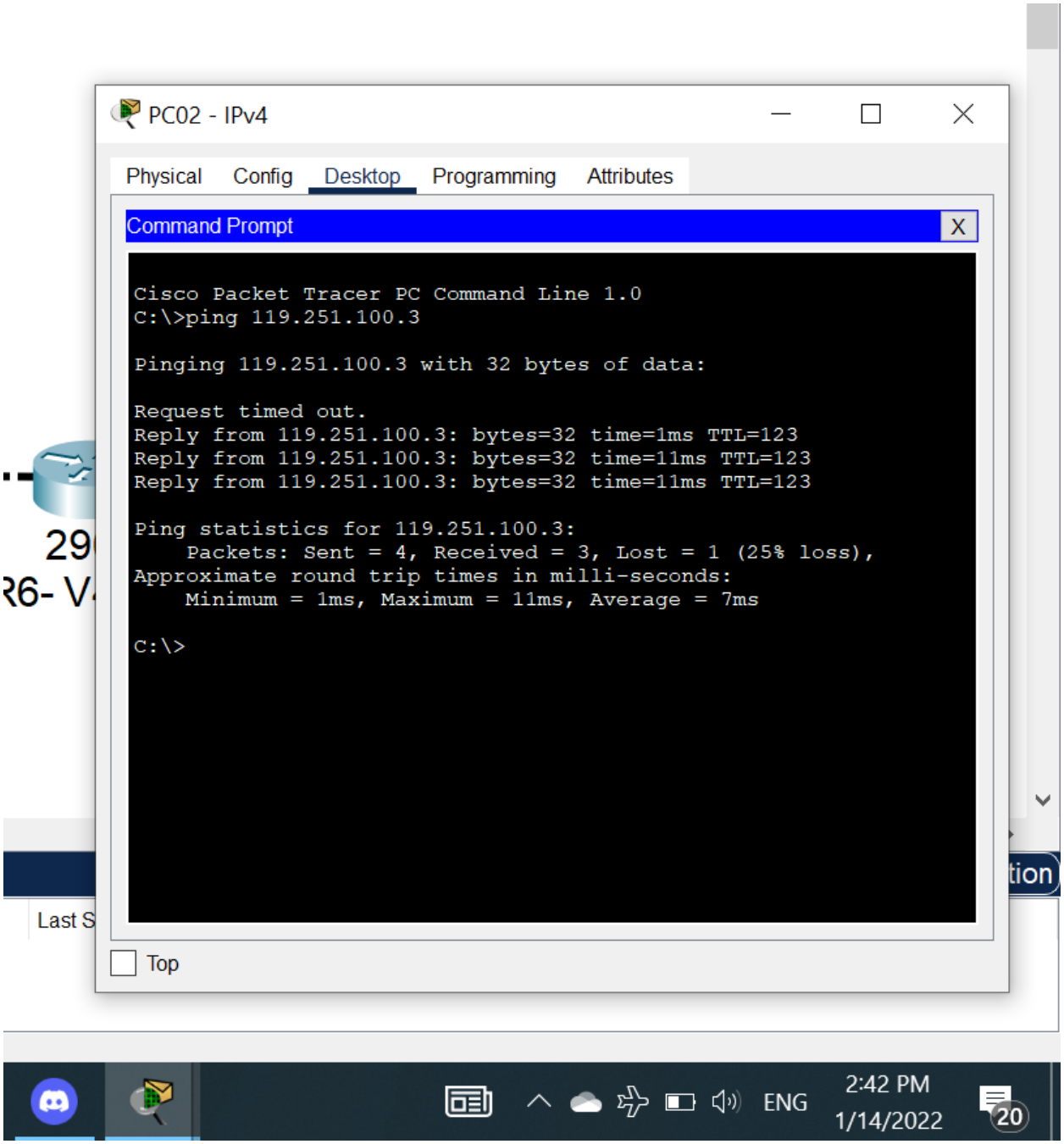
The success of ping “round-trip time didn’t give time out” is an evidence shows that the tunnel works properly.

Ping from PC01 to PC61:

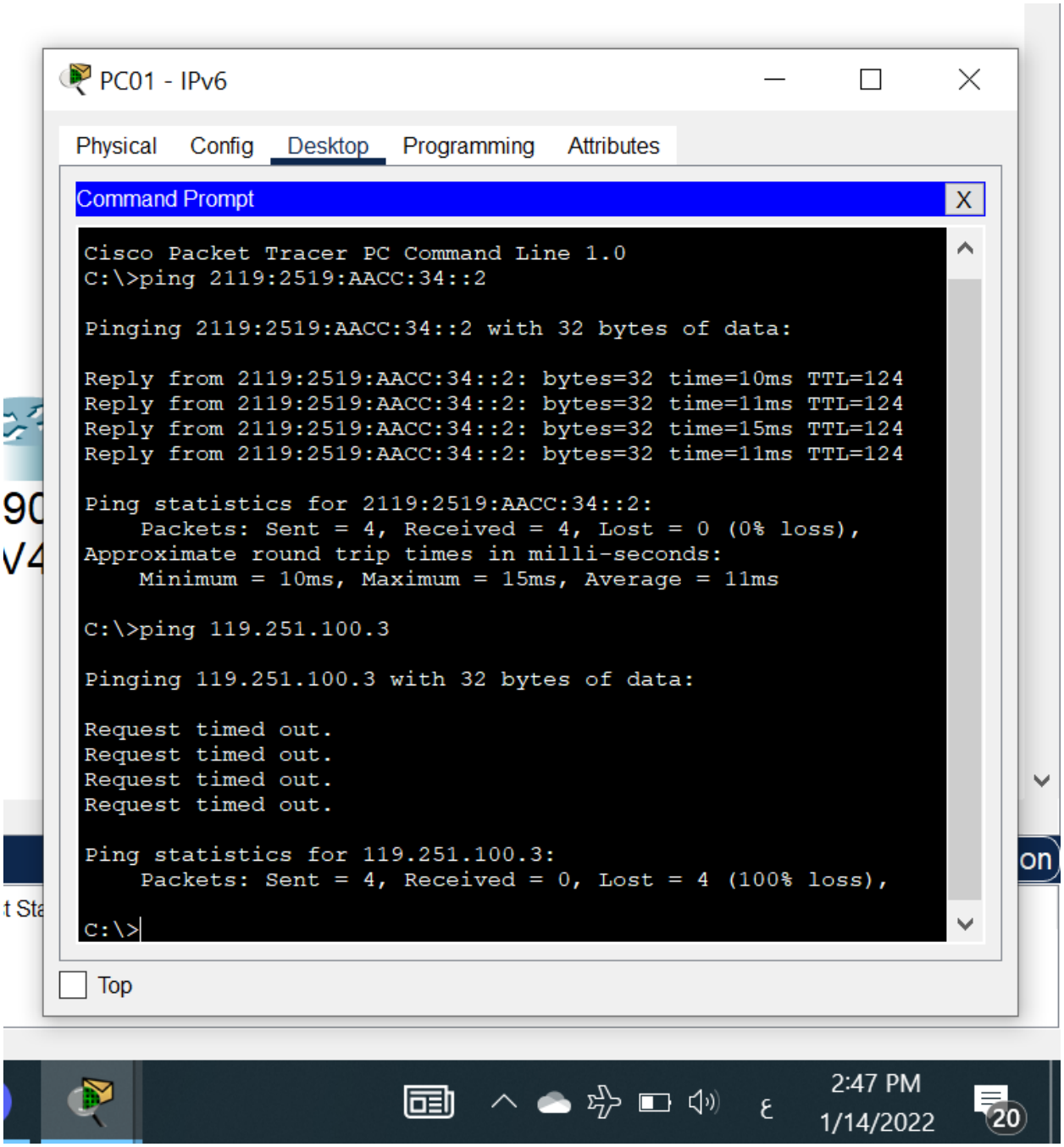


Also this is an evidence to shows that the tunnel works properly, where these PS's use IPv6.

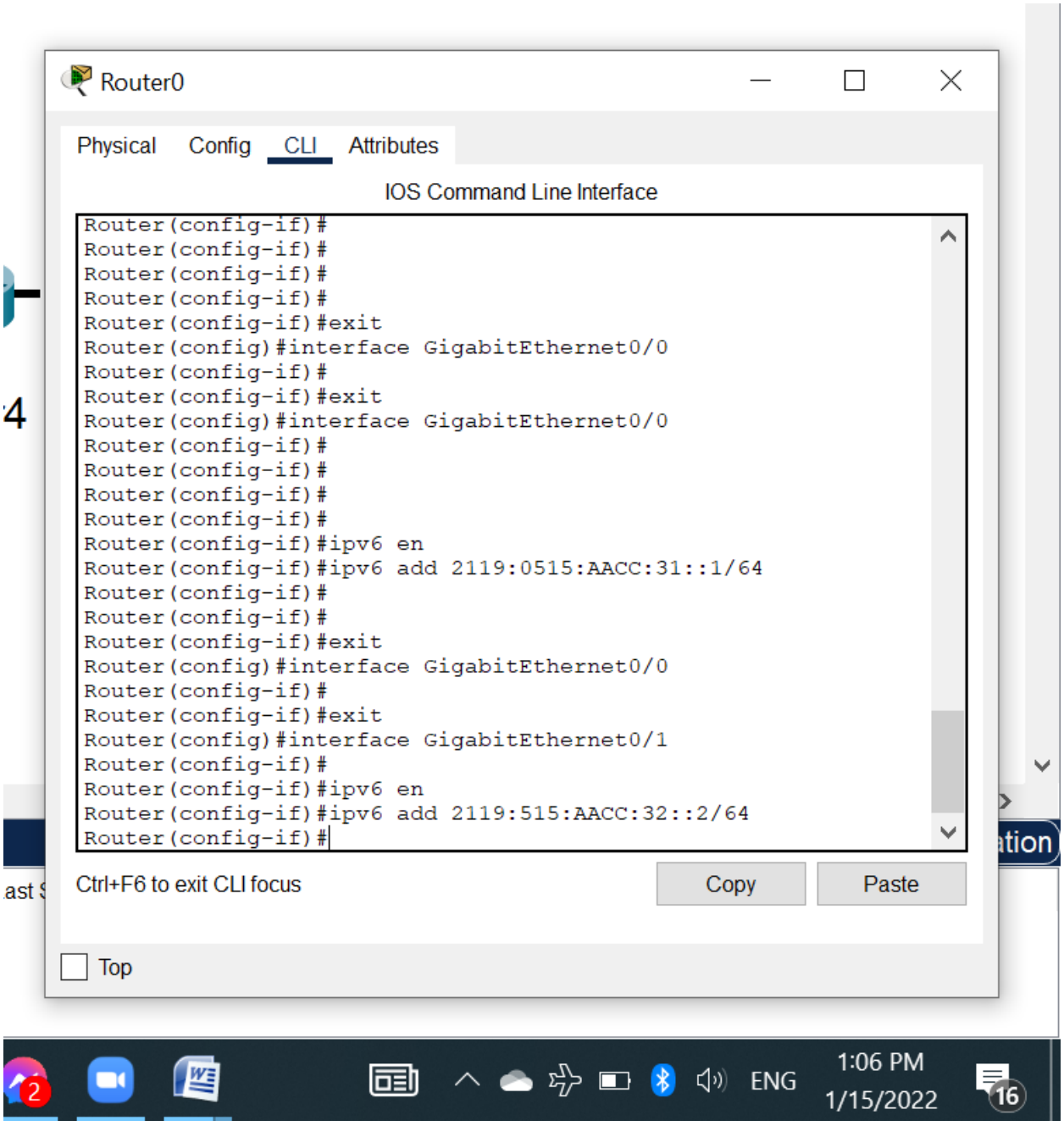
Ping from PC02 to PC62:

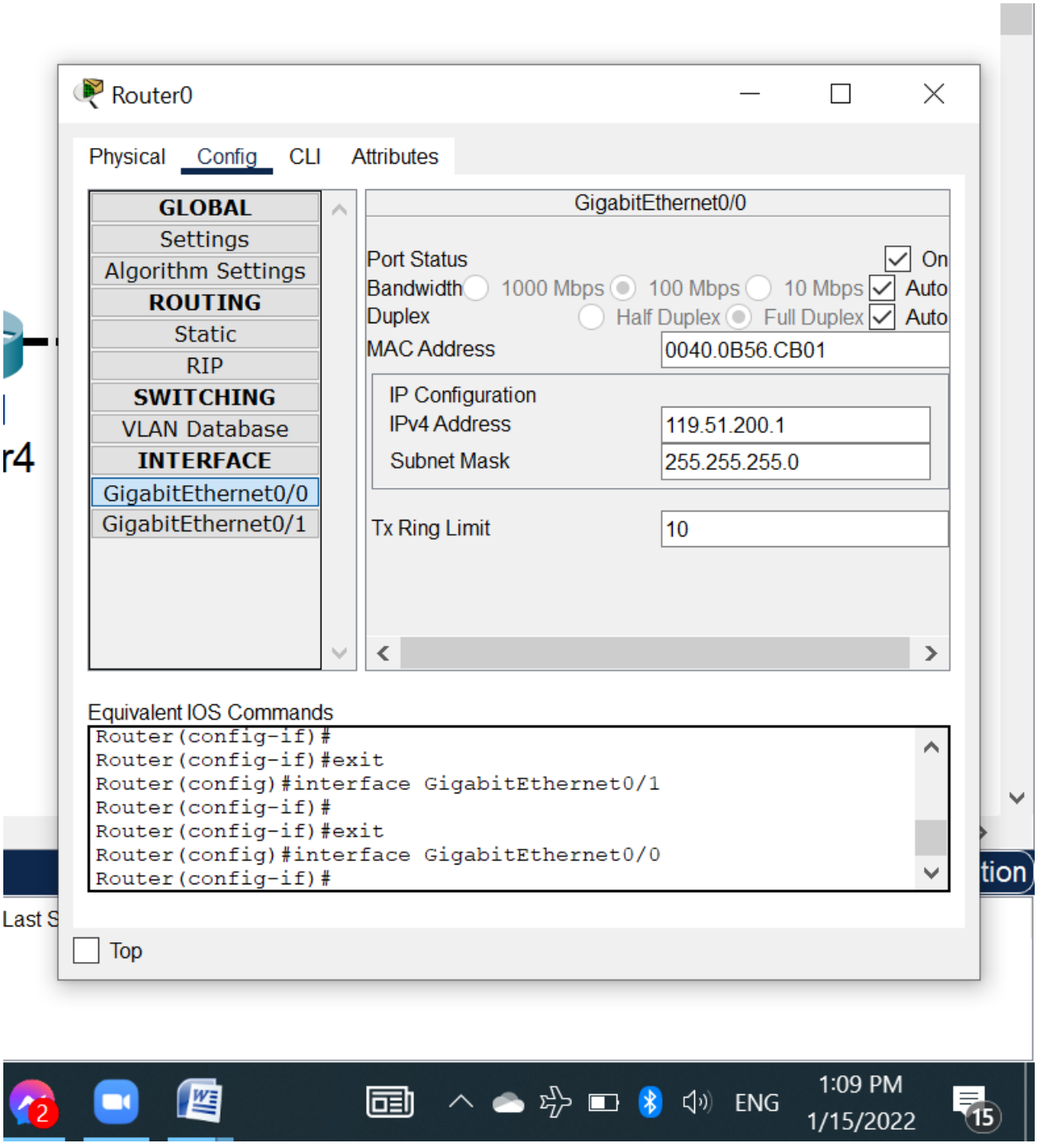


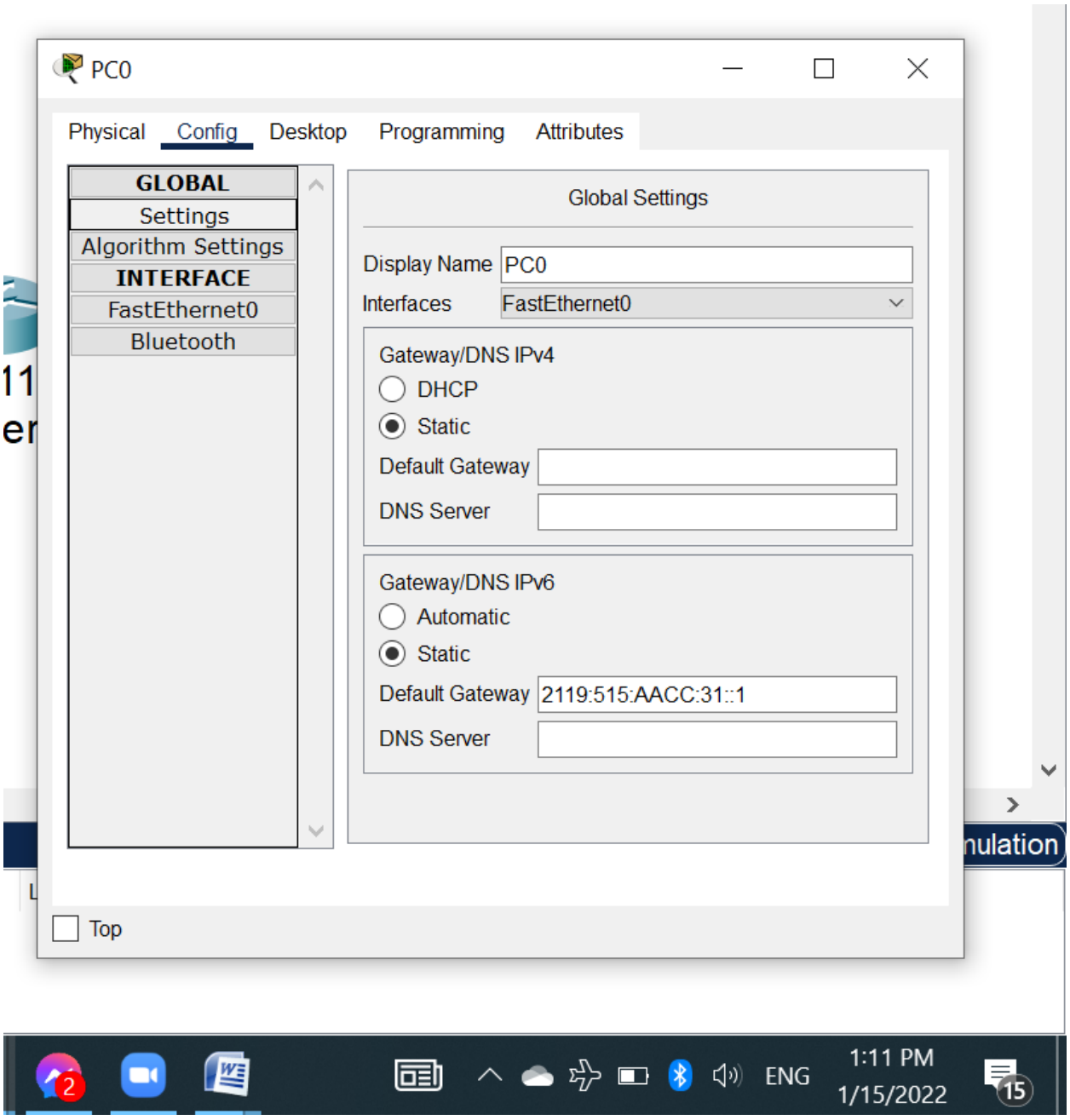
Ping from PC01 to PC62:

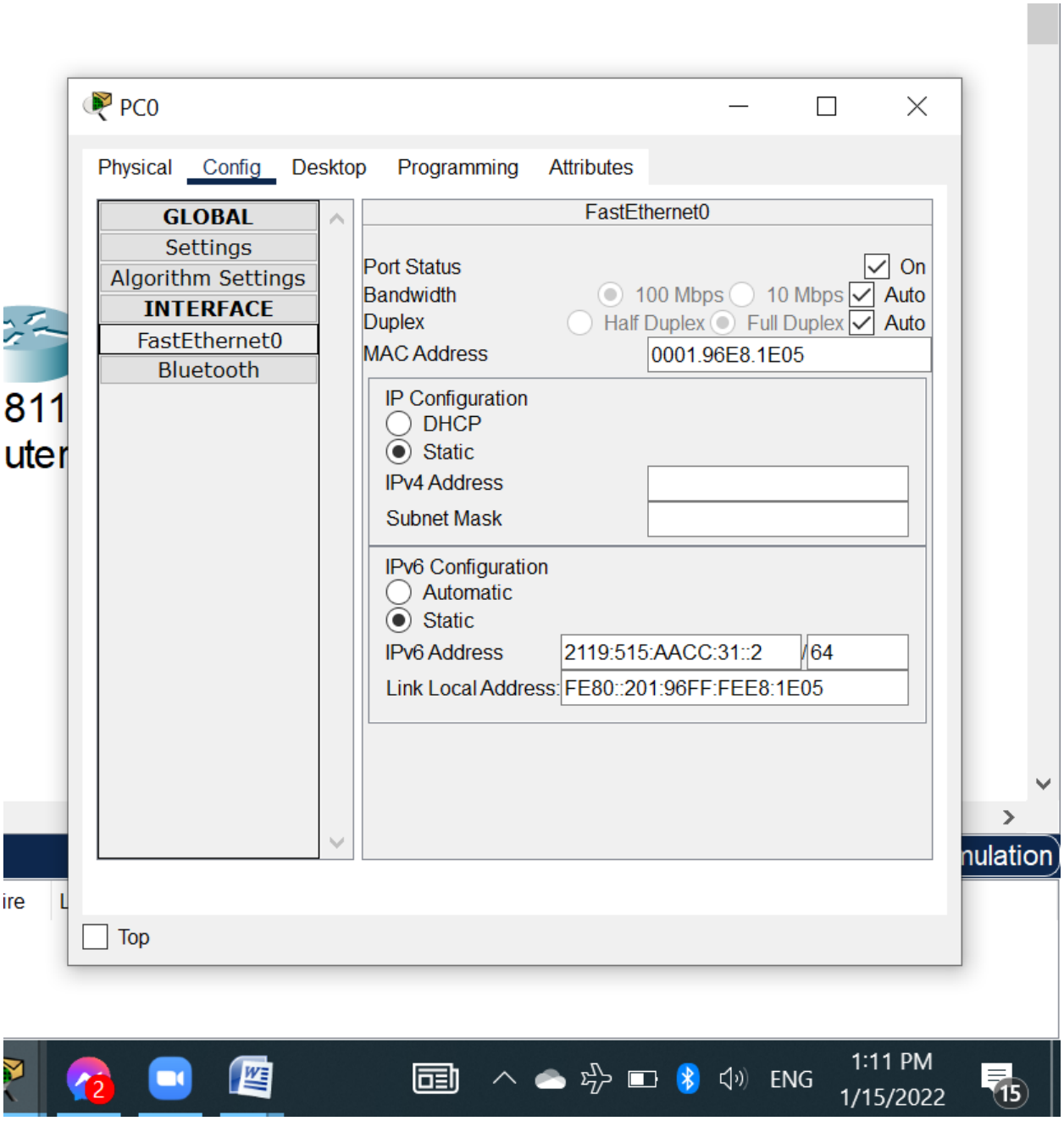


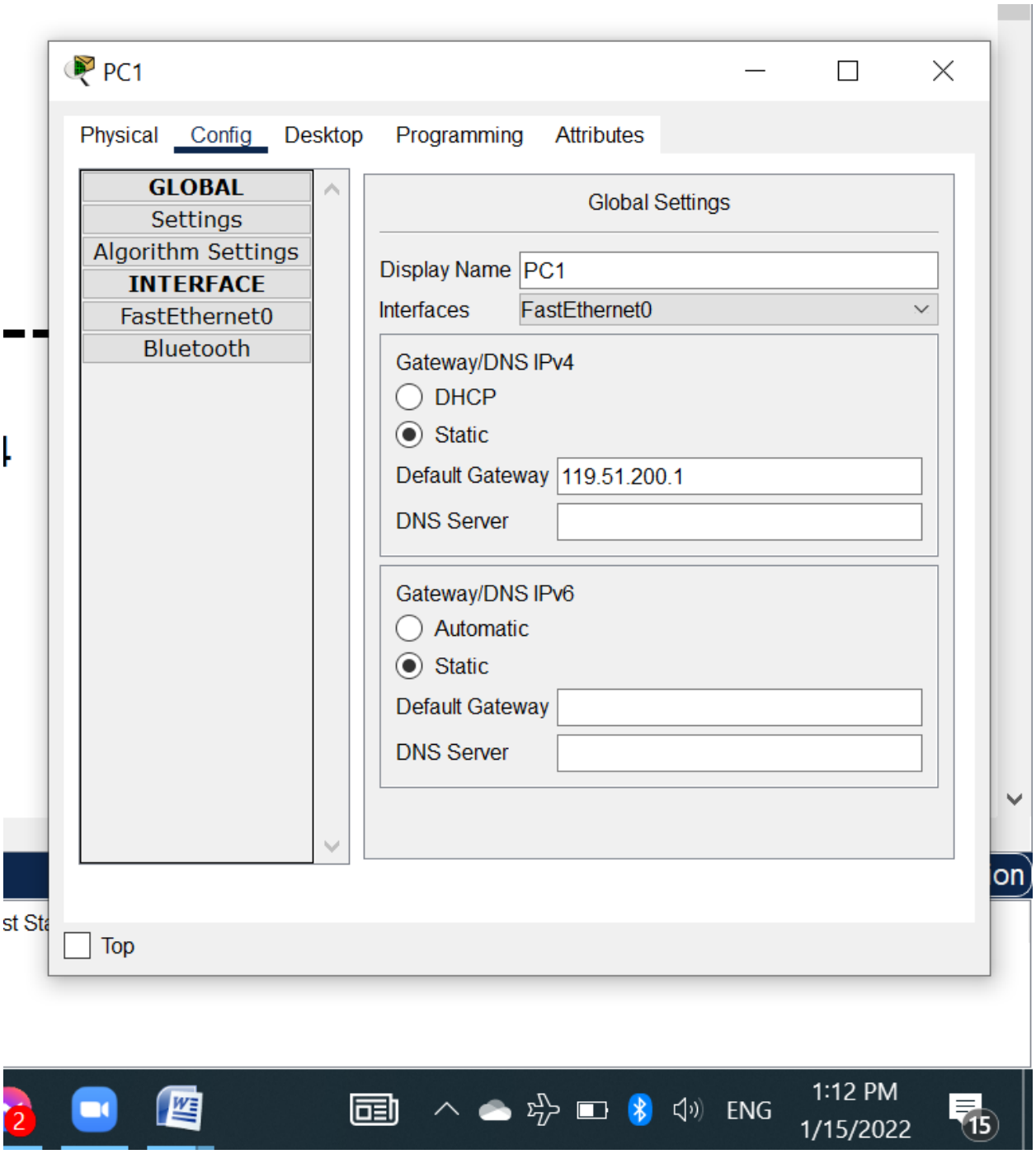
Cannot ping from PC01 to PC62 where the first one use just ipv6 and the second one use just ipv6.

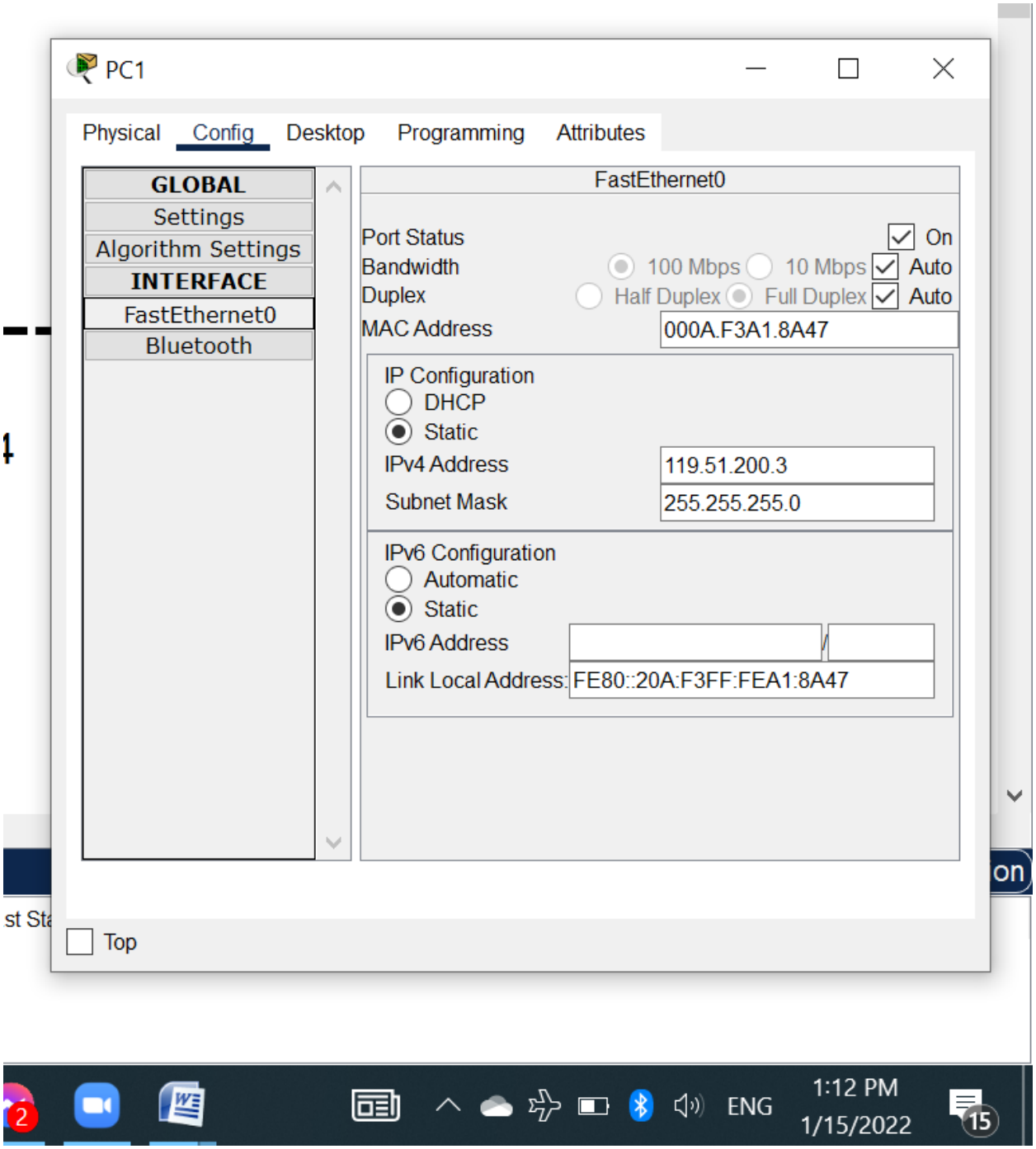

Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#ipv6 en
Router(config-if)#ipv6 add 2119:0515:AACC:31::1/64
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#ipv6 en
Router(config-if)#ipv6 add 2119:515:AACC:32::2/64
Router(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
1:06 PM
1/15/2022

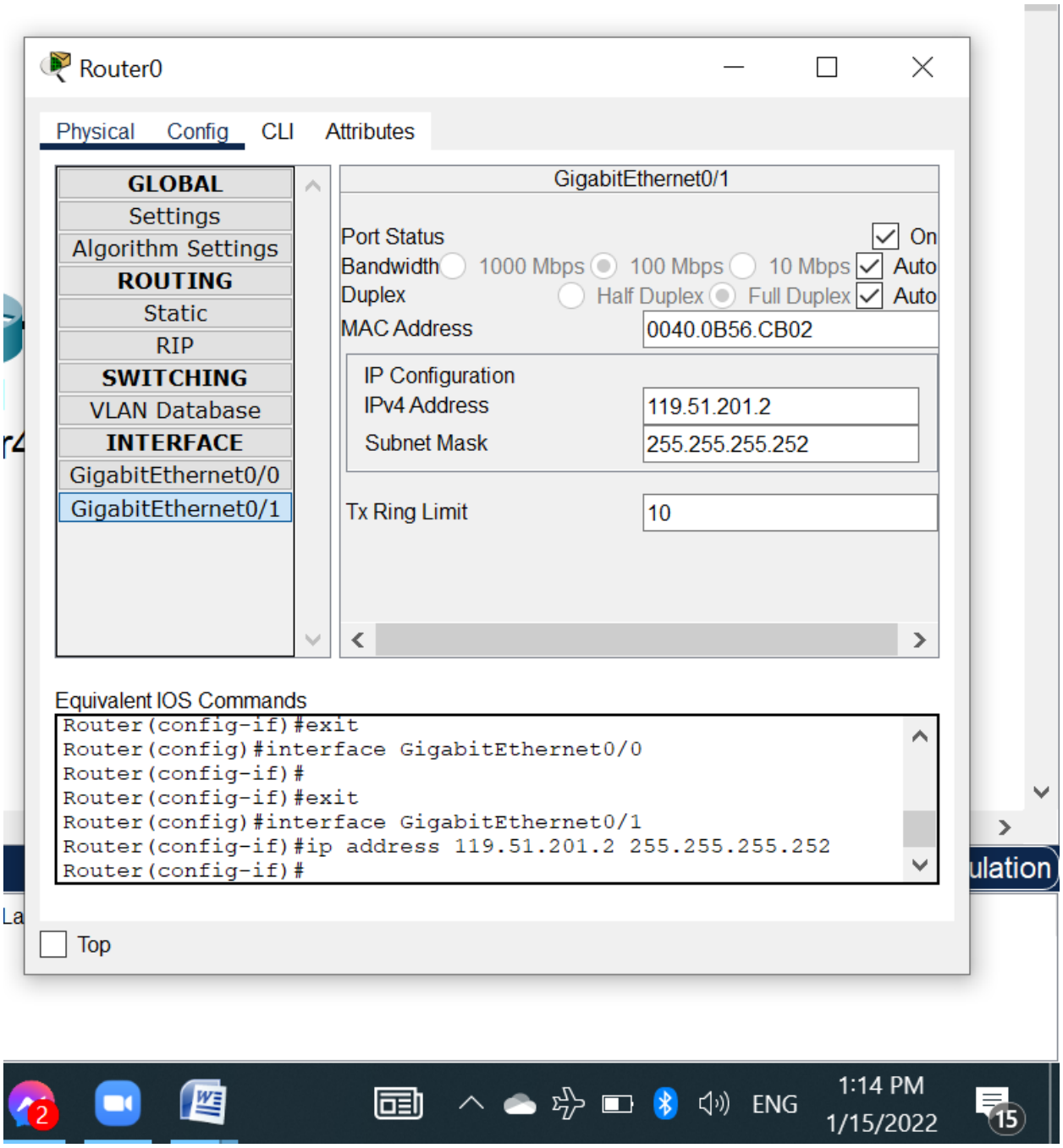

Router0
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/0
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0040.0B56.CB01
IP Configuration
IPv4 Address
119.51.200.1
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Top

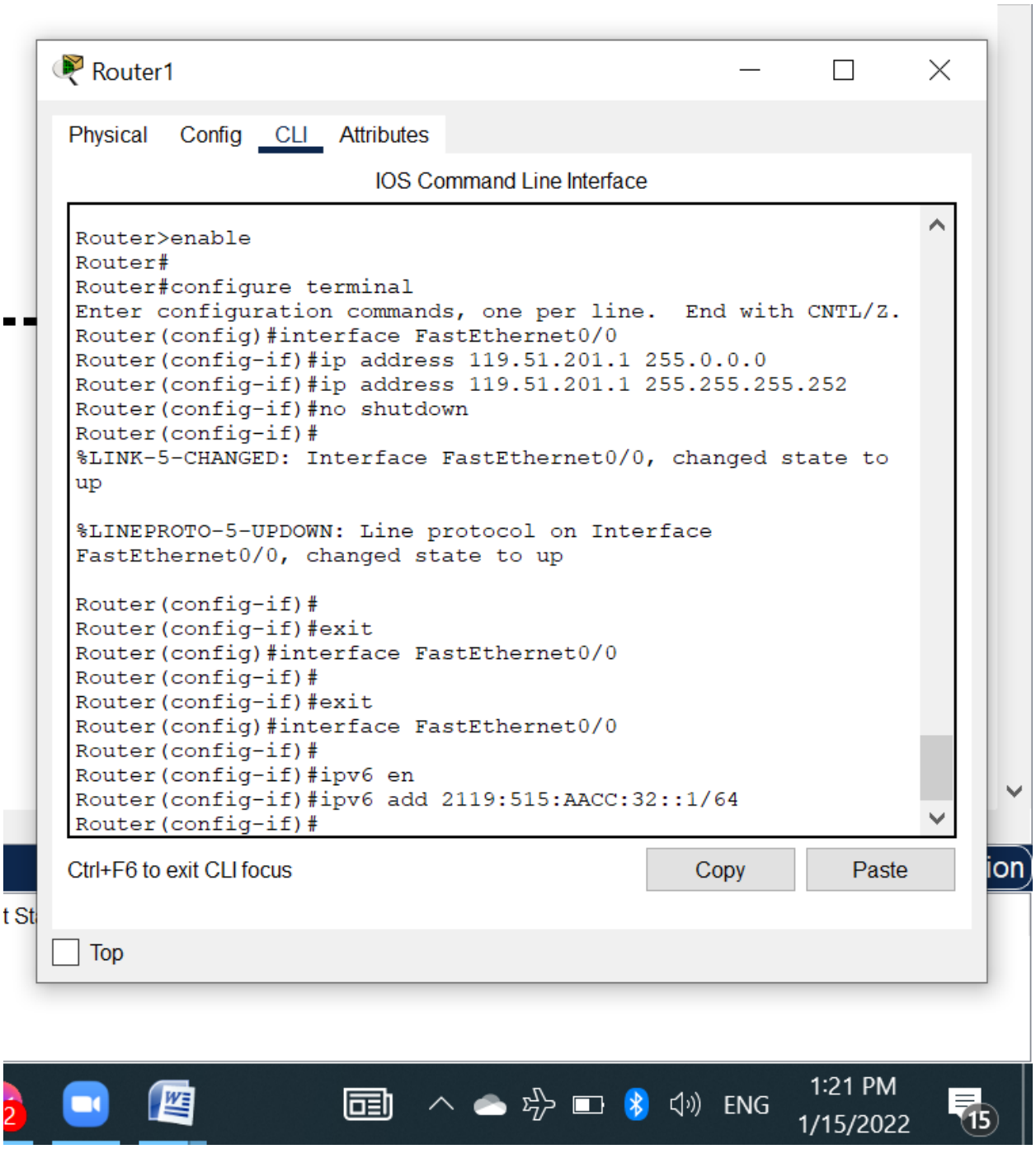

PC0
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
Global Settings
Display Name
PC0
Interfaces
FastEthernet0
Gateway/DNS IPv4
DHCP
Static
Default Gateway
DNS Server
Gateway/DNS IPv6
Automatic
Static
Default Gateway
2119:515:AACC:31::1
DNS Server
Top
ENG
1:11 PM
1/15/2022

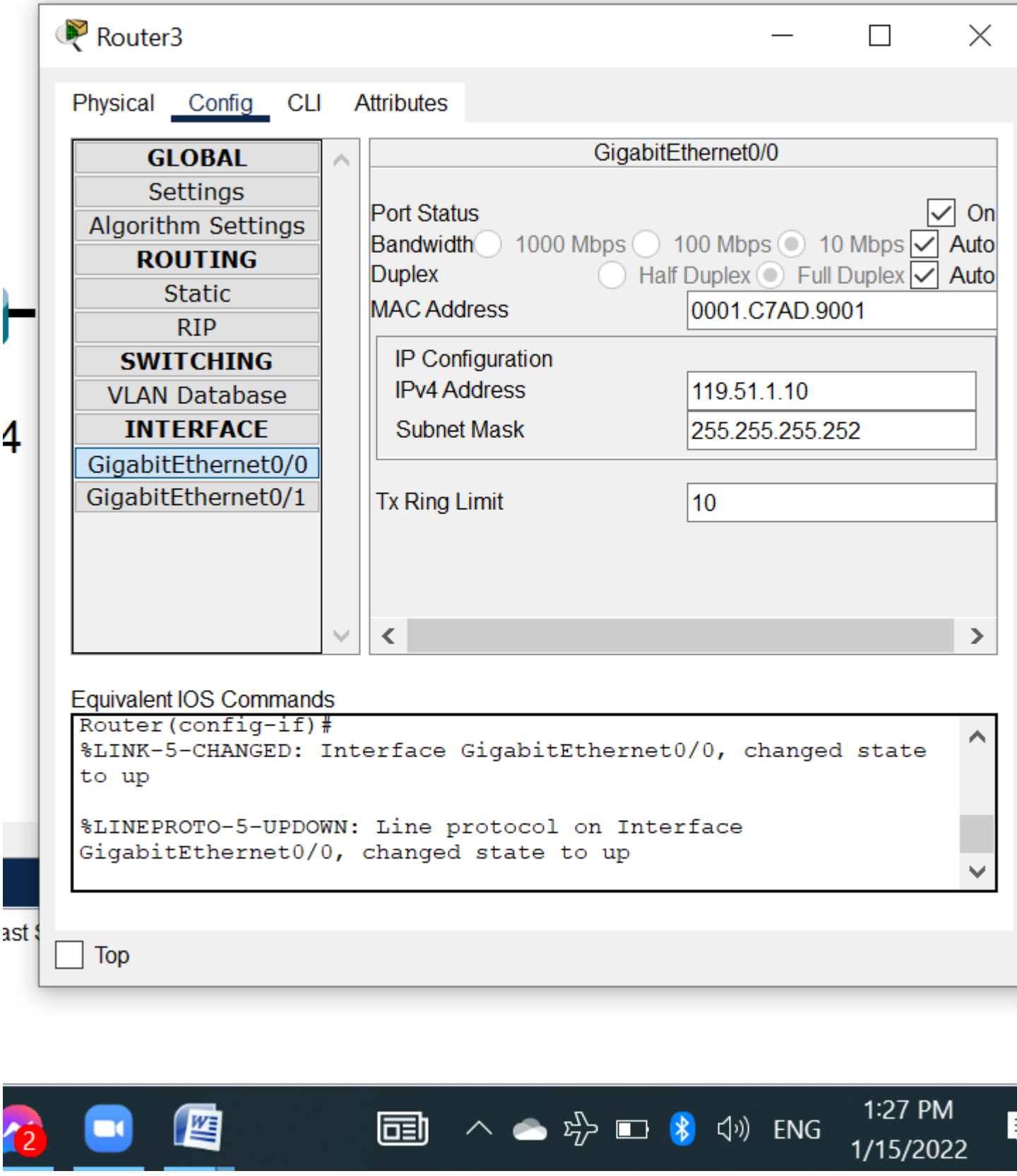

PC0
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0001.96E8.1E05
IP Configuration
DHCP
Static
IPv4 Address
Subnet Mask
IPv6 Configuration
Automatic
Static
IPv6 Address
2119:515:AACC:31::2
/64
Link Local Address:
FE80::201:96FF:FEE8:1E05
Top
ENG
1:11 PM
1/15/2022


PC1
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
Global Settings
Display Name
PC1
Interfaces
FastEthernet0
Gateway/DNS IPv4
DHCP
Static
Default Gateway
119.51.200.1
DNS Server
Gateway/DNS IPv6
Automatic
Static
Default Gateway
DNS Server
Top
ENG
1:12 PM
1/15/2022

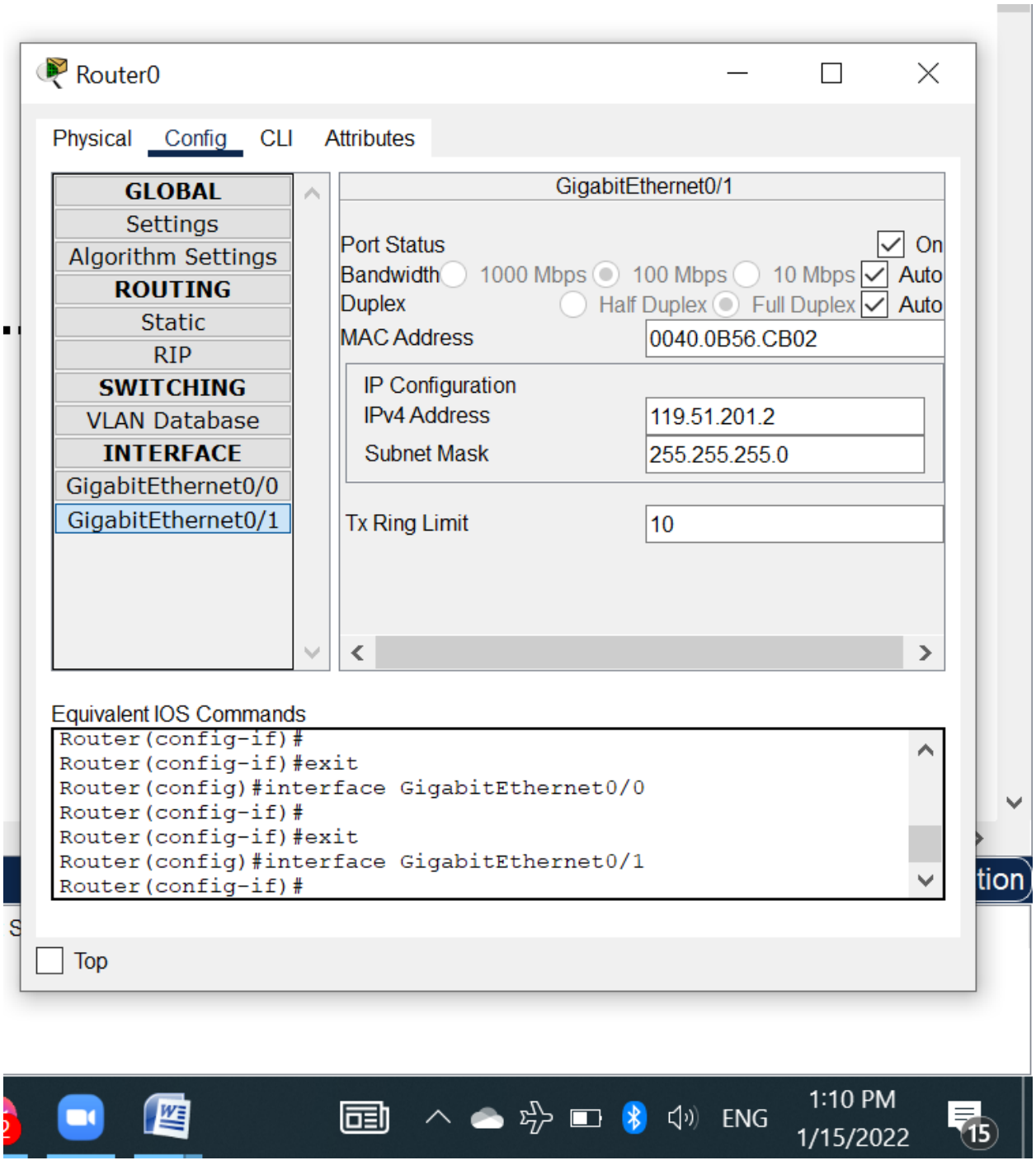

PC1
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
000A.F3A1.8A47
IP Configuration
DHCP
Static
IPv4 Address
119.51.200.3
Subnet Mask
255.255.255.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address:
FE80::20A:F3FF:FEA1:8A47
Top
ENG
1:12 PM
1/15/2022

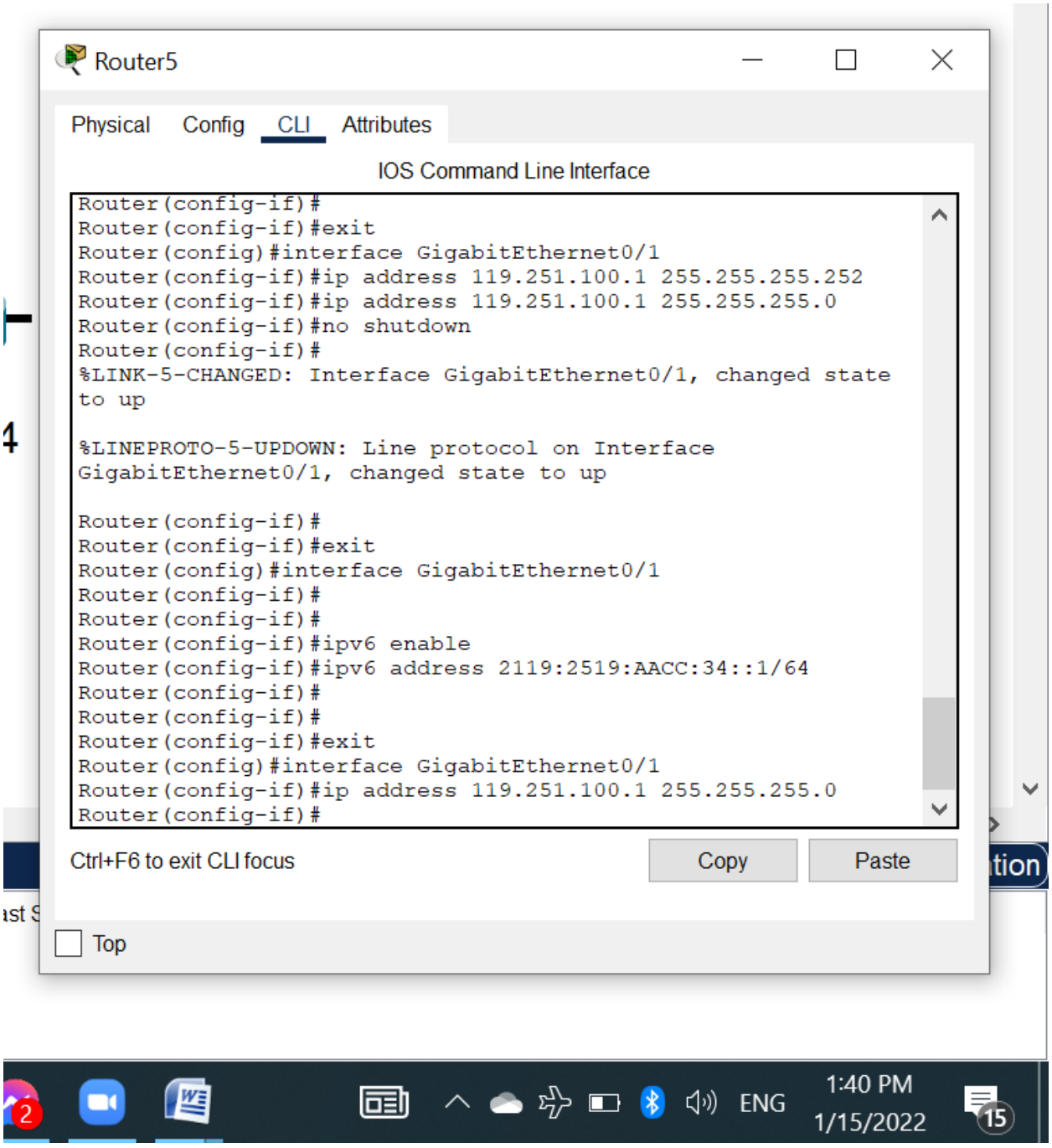

Router0
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/1
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0040.0B56.CB02
IP Configuration
IPv4 Address
119.51.201.2
Subnet Mask
255.255.255.252
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip address 119.51.201.2 255.255.255.252
Router(config-if)#
Top

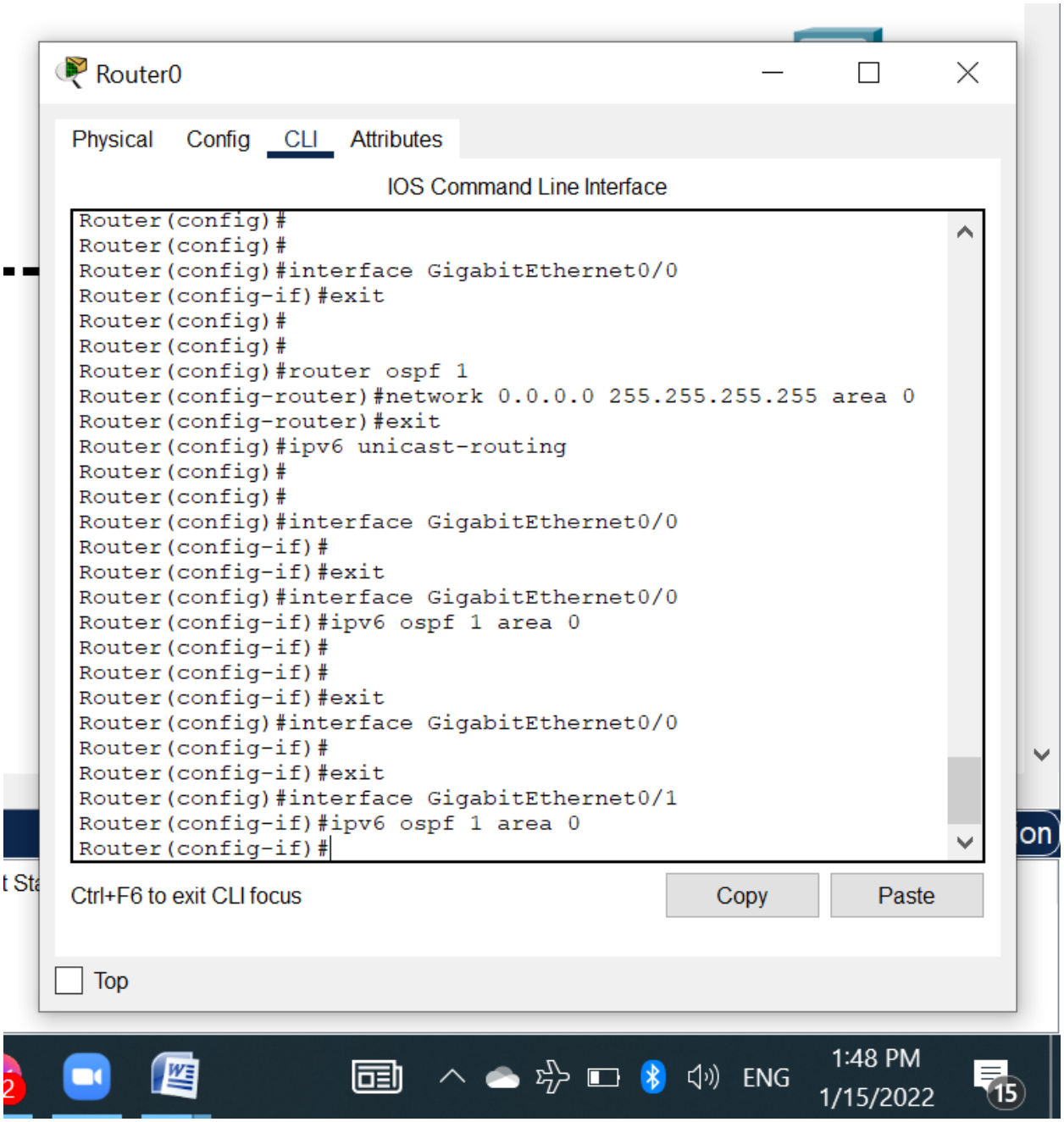

Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 119.51.201.1 255.0.0.0
Router(config-if)#ip address 119.51.201.1 255.255.255.252
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)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#ipv6 en
Router(config-if)#ipv6 add 2119:515:AACC:32::1/64
Router(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
1:21 PM
1/15/2022

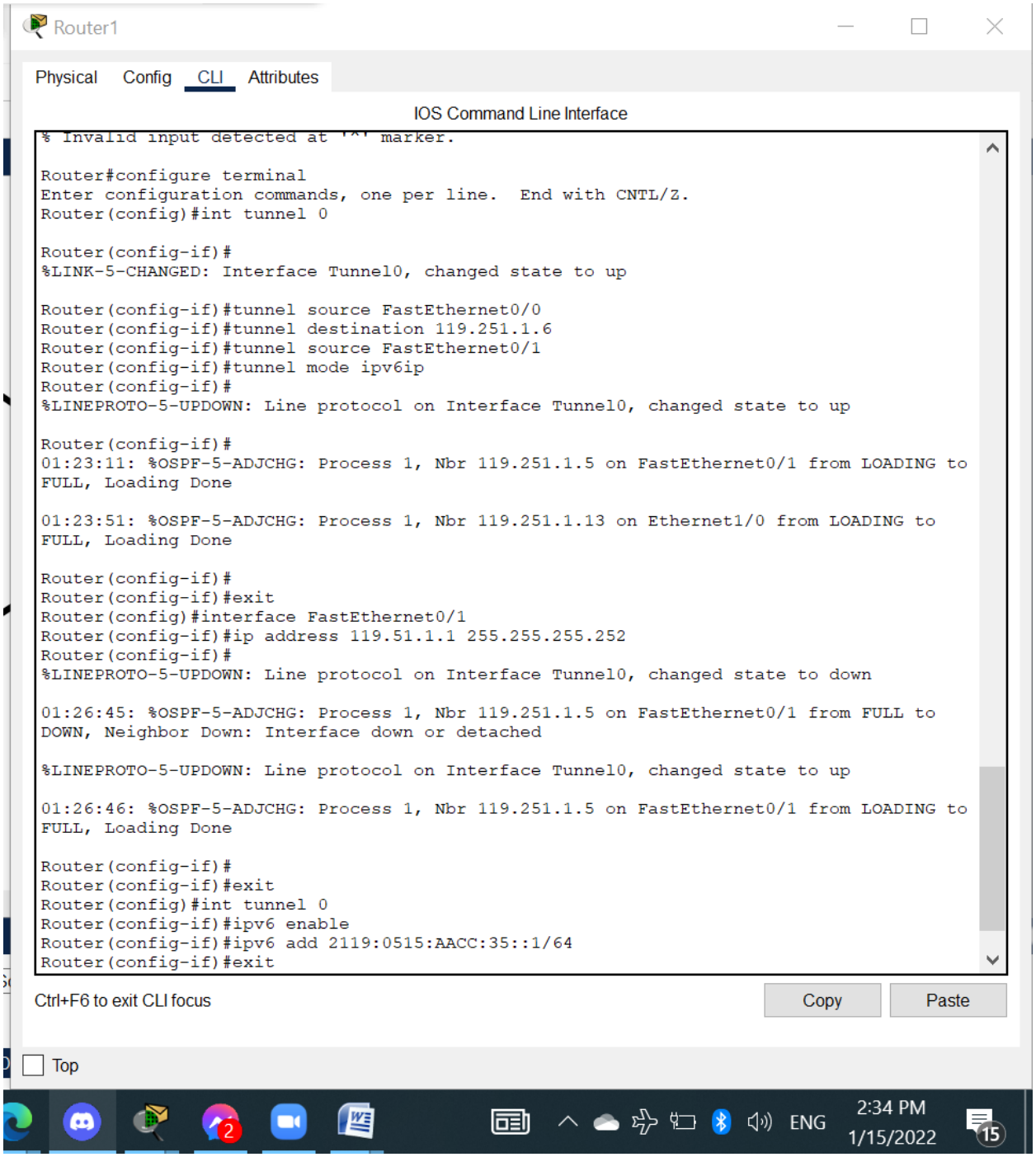

Router3
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/0
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0001.C7AD.9001
IP Configuration
IPv4 Address
119.51.1.10
Subnet Mask
255.255.255.252
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
Top

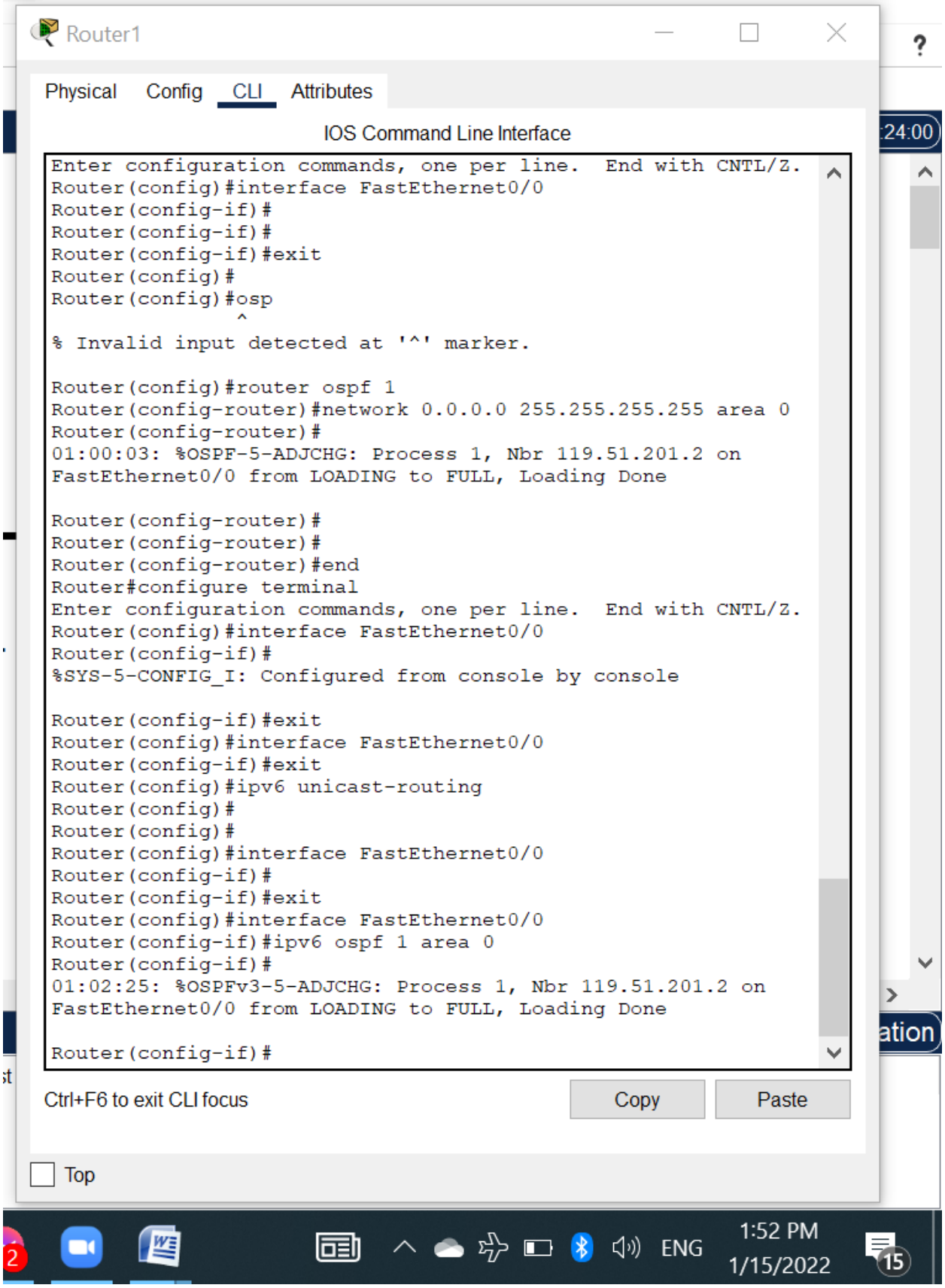
ENG
1:27 PM
1/15/2022

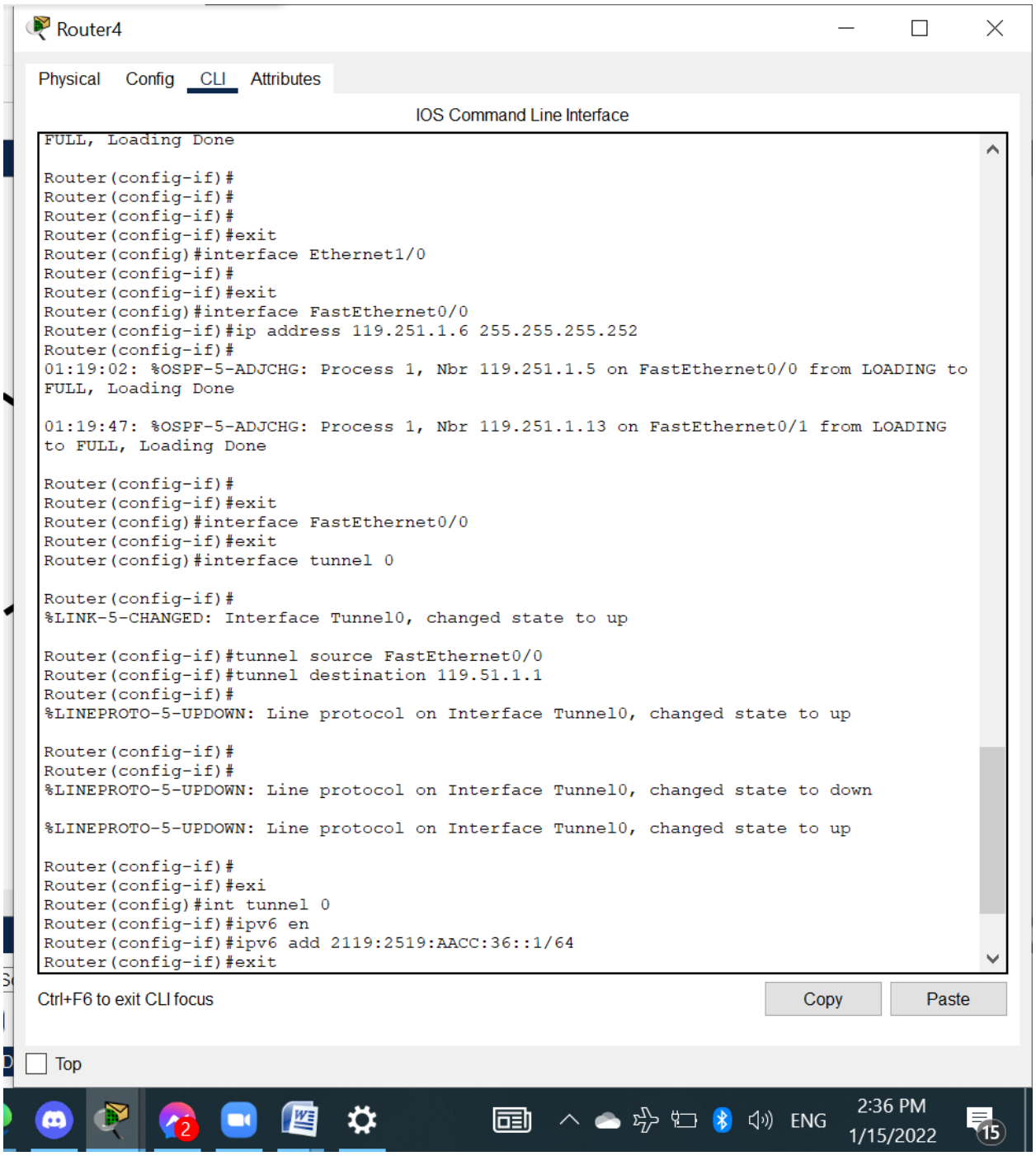

Router0
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/1
Port Status
On
Bandwidth
1000 Mbps
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0040.0B56.CB02
IP Configuration
IPv4 Address
119.51.201.2
Subnet Mask
255.255.255.0
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Top
ENG
1:10 PM
1/15/2022

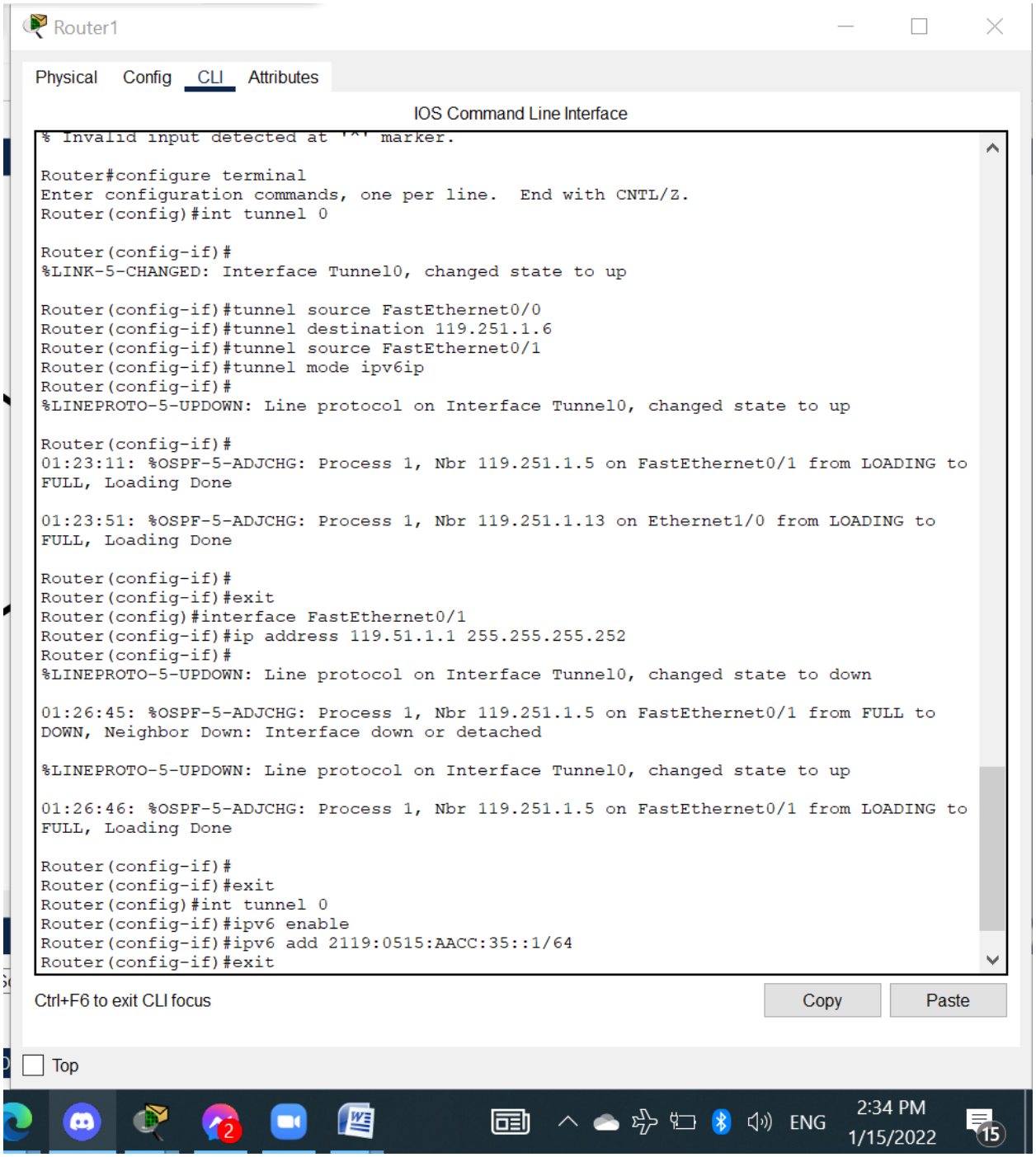

Router5
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip address 119.251.100.1 255.255.255.252
Router(config-if)#ip address 119.251.100.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#
Router(config-if)#ipv6 enable
Router(config-if)#ipv6 address 2119:2519:AACC:34::1/64
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip address 119.251.100.1 255.255.255.0
Router(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
1:40 PM
1/15/2022


Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#
Router(config)#
Router(config)#interface GigabitEthernet0/0
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#router ospf 1
Router(config-router)#network 0.0.0.0 255.255.255.255 area 0
Router(config-router)#exit
Router(config)#ipv6 unicast-routing
Router(config)#
Router(config)#
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ipv6 ospf 1 area 0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ipv6 ospf 1 area 0
Router(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
1:48 PM
1/15/2022


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
% Invalid input detected at '^' marker.
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int tunnel 0
Router(config-if)#
%LINK-5-CHANGED: Interface Tunnel0, changed state to up
Router(config-if)#tunnel source FastEthernet0/0
Router(config-if)#tunnel destination 119.251.1.6
Router(config-if)#tunnel source FastEthernet0/1
Router(config-if)#tunnel mode ipv6ip
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
Router(config-if)#
01:23:11: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/1 from LOADING to FULL, Loading Done
01:23:51: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.13 on Ethernet1/0 from LOADING to FULL, Loading Done
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 119.51.1.1 255.255.255.252
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to down
01:26:45: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/1 from FULL to DOWN, Neighbor Down: Interface down or detached
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
01:26:46: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/1 from LOADING to FULL, Loading Done
Router(config-if)#
Router(config-if)#exit
Router(config)#int tunnel 0
Router(config-if)#ipv6 enable
Router(config-if)#ipv6 add 2119:0515:AACC:35::1/64
Router(config-if)#exit
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
2:34 PM
1/15/2022


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#osp
^
% Invalid input detected at '^' marker.
Router(config)#router ospf 1
Router(config-router)#network 0.0.0.0 255.255.255.255 area 0
Router(config-router)#
01:00:03: %OSPF-5-ADJCHG: Process 1, Nbr 119.51.201.2 on
FastEthernet0/0 from LOADING to FULL, Loading Done
Router(config-router)#
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#exit
Router(config)#ipv6 unicast-routing
Router(config)#
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ipv6 ospf 1 area 0
Router(config-if)#
01:02:25: %OSPFv3-5-ADJCHG: Process 1, Nbr 119.51.201.2 on
FastEthernet0/0 from LOADING to FULL, Loading Done
Router(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
1:52 PM
1/15/2022


Router4
Physical
Config
CLI
Attributes
IOS Command Line Interface
FULL, Loading Done
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Ethernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 119.251.1.6 255.255.255.252
Router(config-if)#
01:19:02: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/0 from LOADING to FULL, Loading Done
01:19:47: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.13 on FastEthernet0/1 from LOADING to FULL, Loading Done
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#exit
Router(config)#interface tunnel 0
Router(config-if)#
%LINK-5-CHANGED: Interface Tunnel0, changed state to up
Router(config-if)#tunnel source FastEthernet0/0
Router(config-if)#tunnel destination 119.51.1.1
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
Router(config-if)#
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
Router(config-if)#
Router(config-if)#exi
Router(config)#int tunnel 0
Router(config-if)#ipv6 en
Router(config-if)#ipv6 add 2119:2519:AACC:36::1/64
Router(config-if)#exit
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
2:36 PM
1/15/2022


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
% Invalid input detected at '^' marker.
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int tunnel 0
Router(config-if)#
%LINK-5-CHANGED: Interface Tunnel0, changed state to up
Router(config-if)#tunnel source FastEthernet0/0
Router(config-if)#tunnel destination 119.251.1.6
Router(config-if)#tunnel source FastEthernet0/1
Router(config-if)#tunnel mode ipv6ip
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
Router(config-if)#
01:23:11: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/1 from LOADING to FULL, Loading Done
01:23:51: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.13 on Ethernet1/0 from LOADING to FULL, Loading Done
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 119.51.1.1 255.255.255.252
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to down
01:26:45: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/1 from FULL to DOWN, Neighbor Down: Interface down or detached
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
01:26:46: %OSPF-5-ADJCHG: Process 1, Nbr 119.251.1.5 on FastEthernet0/1 from LOADING to FULL, Loading Done
Router(config-if)#
Router(config-if)#exit
Router(config)#int tunnel 0
Router(config-if)#ipv6 enable
Router(config-if)#ipv6 add 2119:0515:AACC:35::1/64
Router(config-if)#exit
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
ENG
2:34 PM
1/15/2022