Universidad Autónoma de Chiapas

Facultad de contaduría y administración - campus I

Licenciatura en ingeniería en desarrollo y tecnologías de software

Actividad: Act. 1.4 Realiza la Siguiente práctica en Packet Tracert configuracion de Vlans.

Materia: Conmutadores Y Redes Inalámbricas.

Nombre del docente: Dr. Luis Gutiérrez Alfaro.

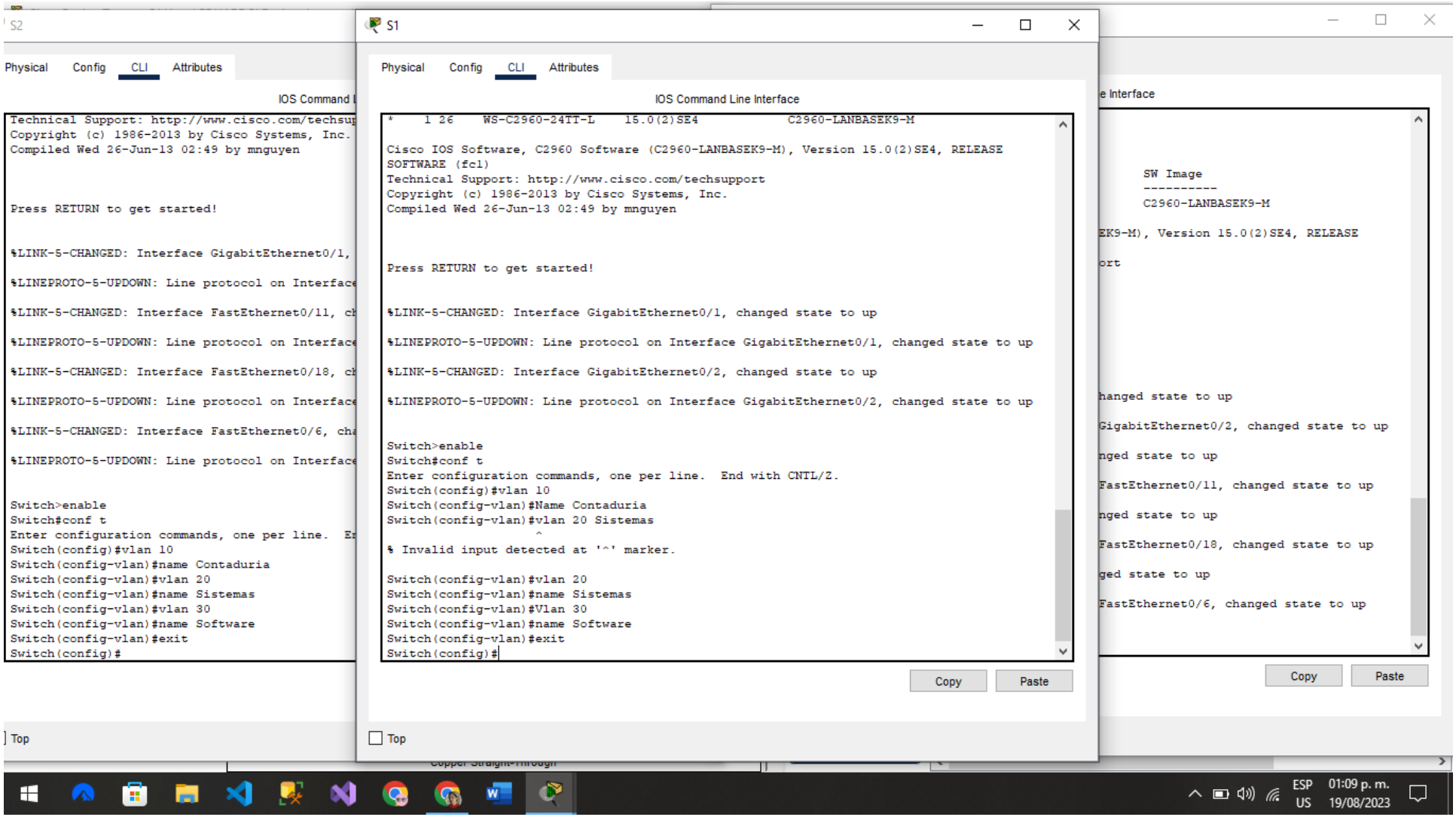
Nombre del alumno: Eduardo Enrique Gordillo Sánchez

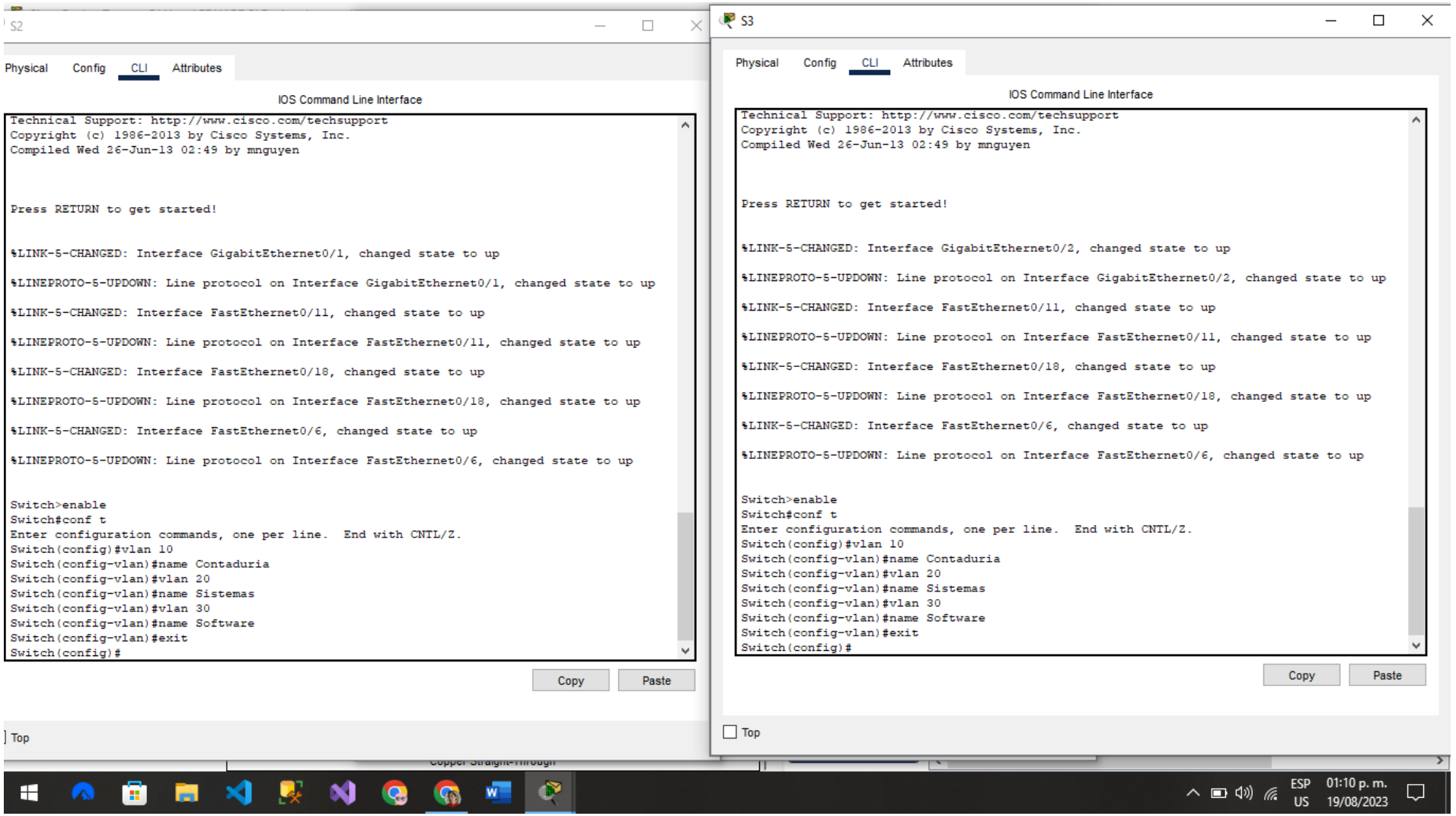
Número de control: A200359

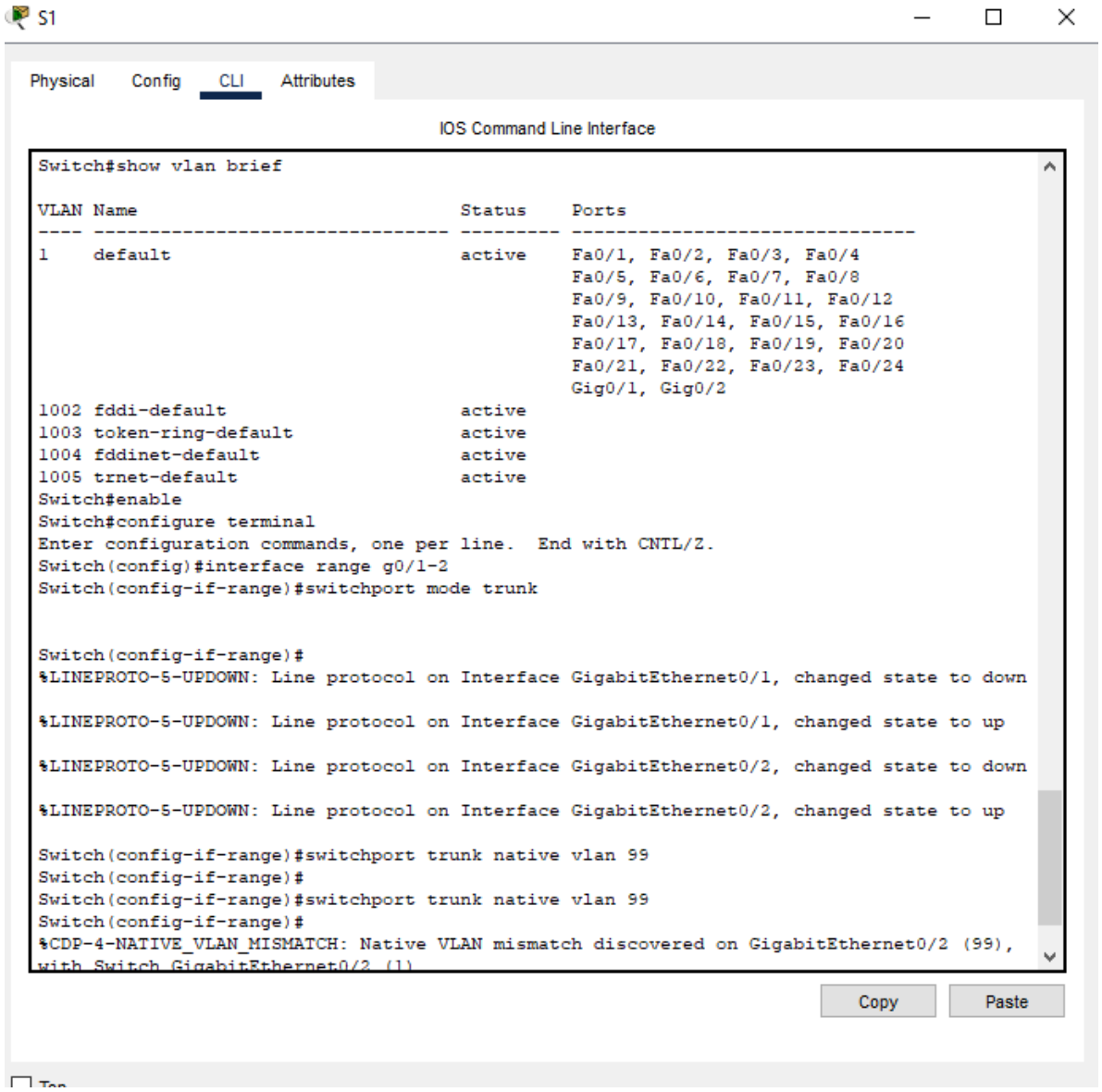
Grado y Grupo: 7 ° N

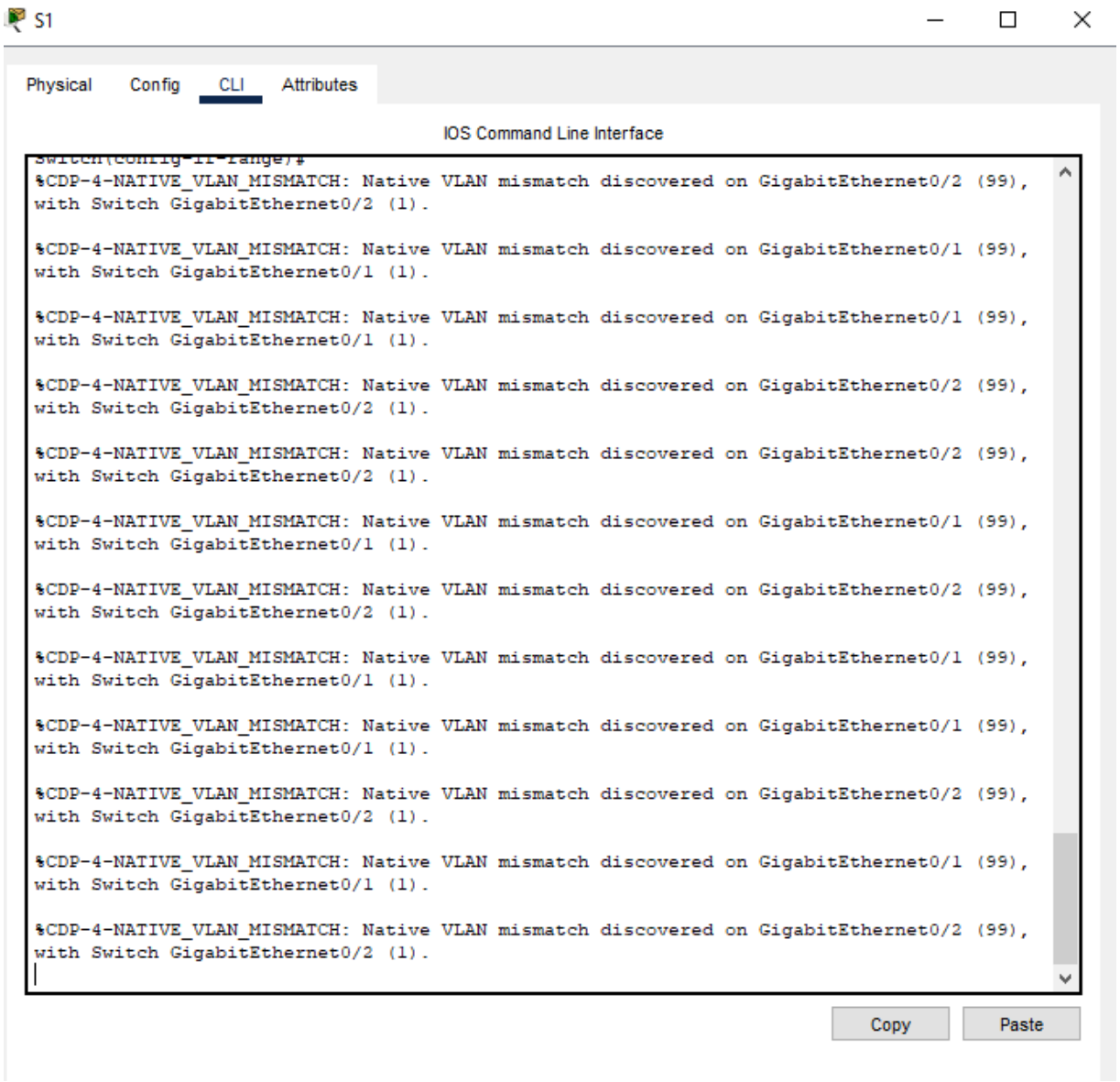
19 de agosto de 2023, Tuxtla GTZ, Chiapas

CONFIGURACION DE LAS INTERFACES Y VLANS

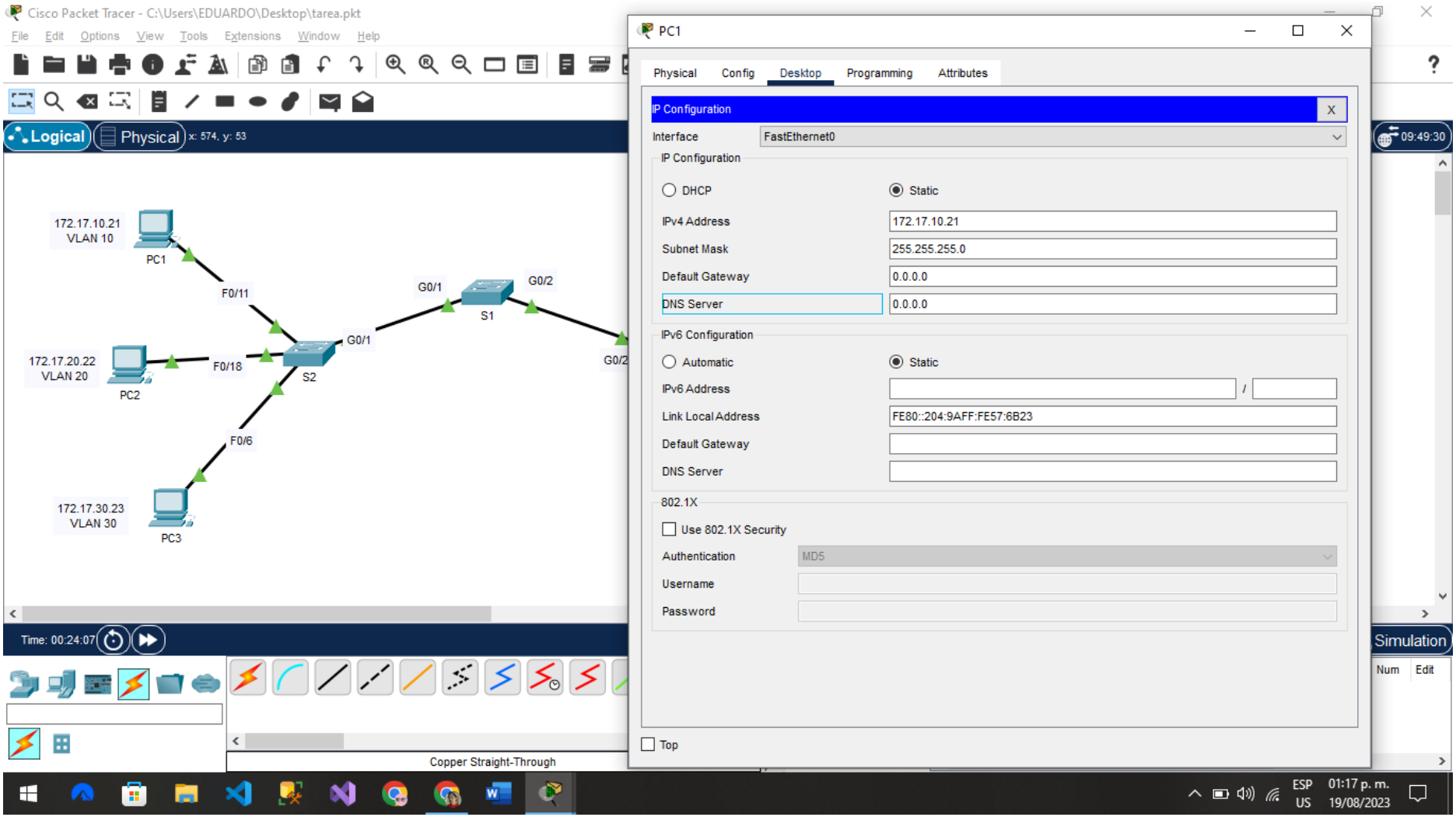


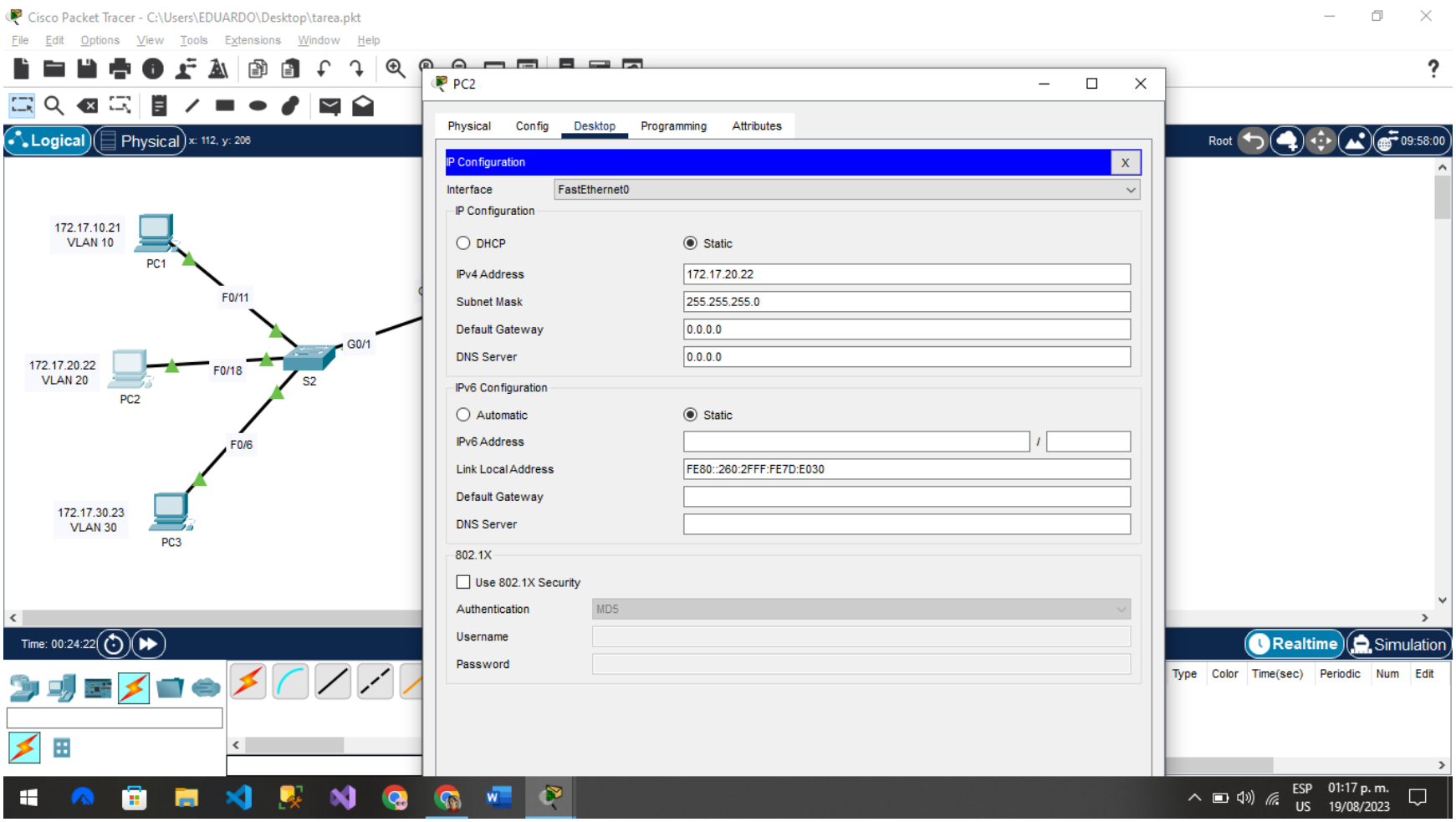

S2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/11, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/18, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/18, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name Contaduria
Switch(config-vlan)#vlan 20
Switch(config-vlan)#name Sistemas
Switch(config-vlan)#vlan 30
Switch(config-vlan)#name Software
Switch(config-vlan)#exit
Switch(config)#
Copy
Paste
Top
S3
Physical
Config
CLI
Attributes
IOS Command Line Interface
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnguyen
Press RETURN to get started!
%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/11, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/18, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/18, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up
Switch>enable
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name Contaduria
Switch(config-vlan)#vlan 20
Switch(config-vlan)#name Sistemas
Switch(config-vlan)#vlan 30
Switch(config-vlan)#name Software
Switch(config-vlan)#exit
Switch(config)#
Copy
Paste
Top
ESP
US
01:10 p. m.
19/08/2023

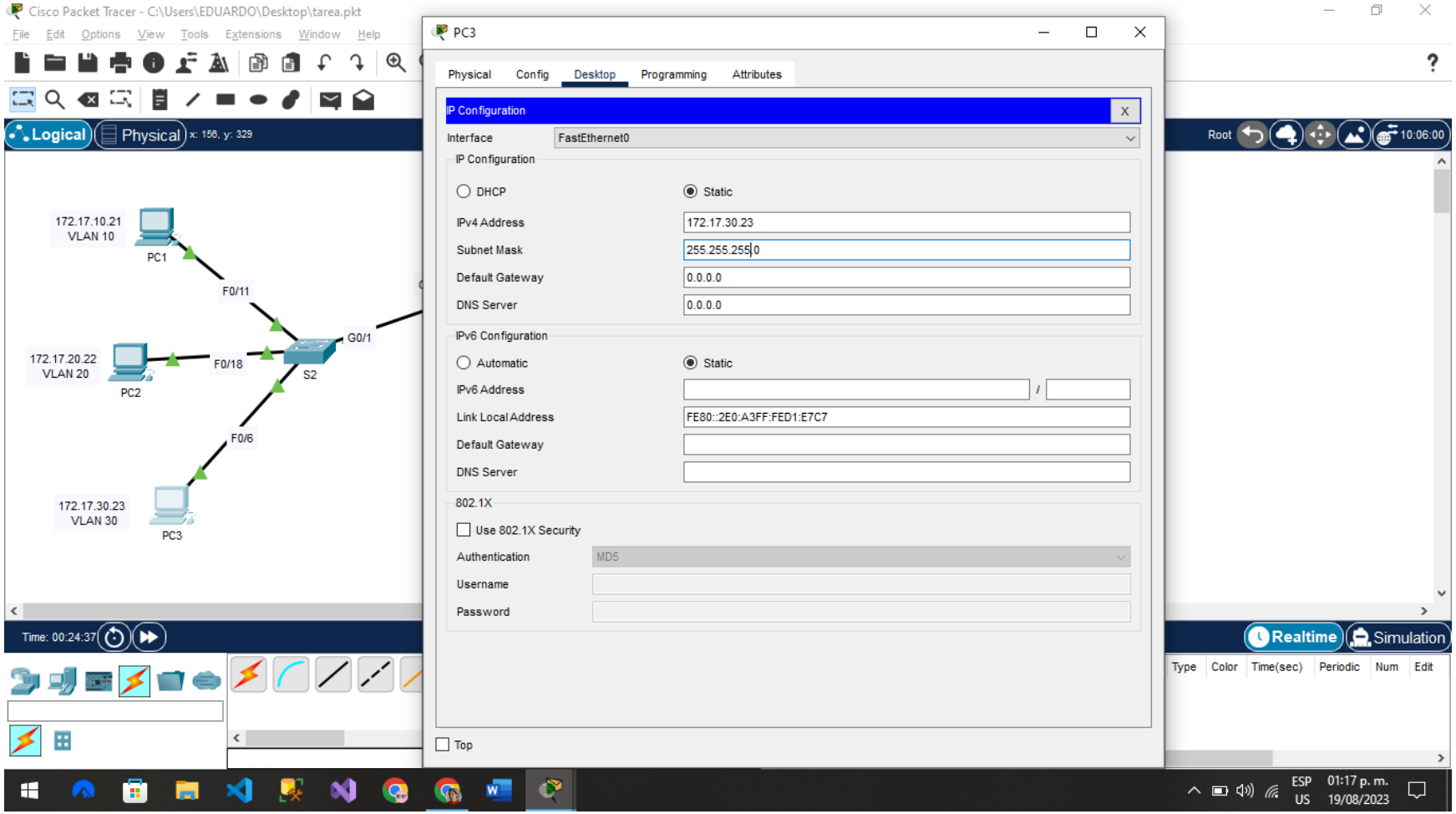

S1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch#show vlan brief
VLAN Name Status Ports
---- -------------------------------- --------- -------------------------------
1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4
Fa0/5, Fa0/6, Fa0/7, Fa0/8
Fa0/9, Fa0/10, Fa0/11, Fa0/12
Fa0/13, Fa0/14, Fa0/15, Fa0/16
Fa0/17, Fa0/18, Fa0/19, Fa0/20
Fa0/21, Fa0/22, Fa0/23, Fa0/24
Gig0/1, Gig0/2
1002 fddi-default active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default active
Switch#enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface range g0/1-2
Switch(config-if-range)#switchport mode trunk
Switch(config-if-range)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
Switch(config-if-range)#switchport trunk native vlan 99
Switch(config-if-range)#
Switch(config-if-range)#switchport trunk native vlan 99
Switch(config-if-range)#
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99),
with Switch GigabitEthernet0/2 (1)
Copy
Paste

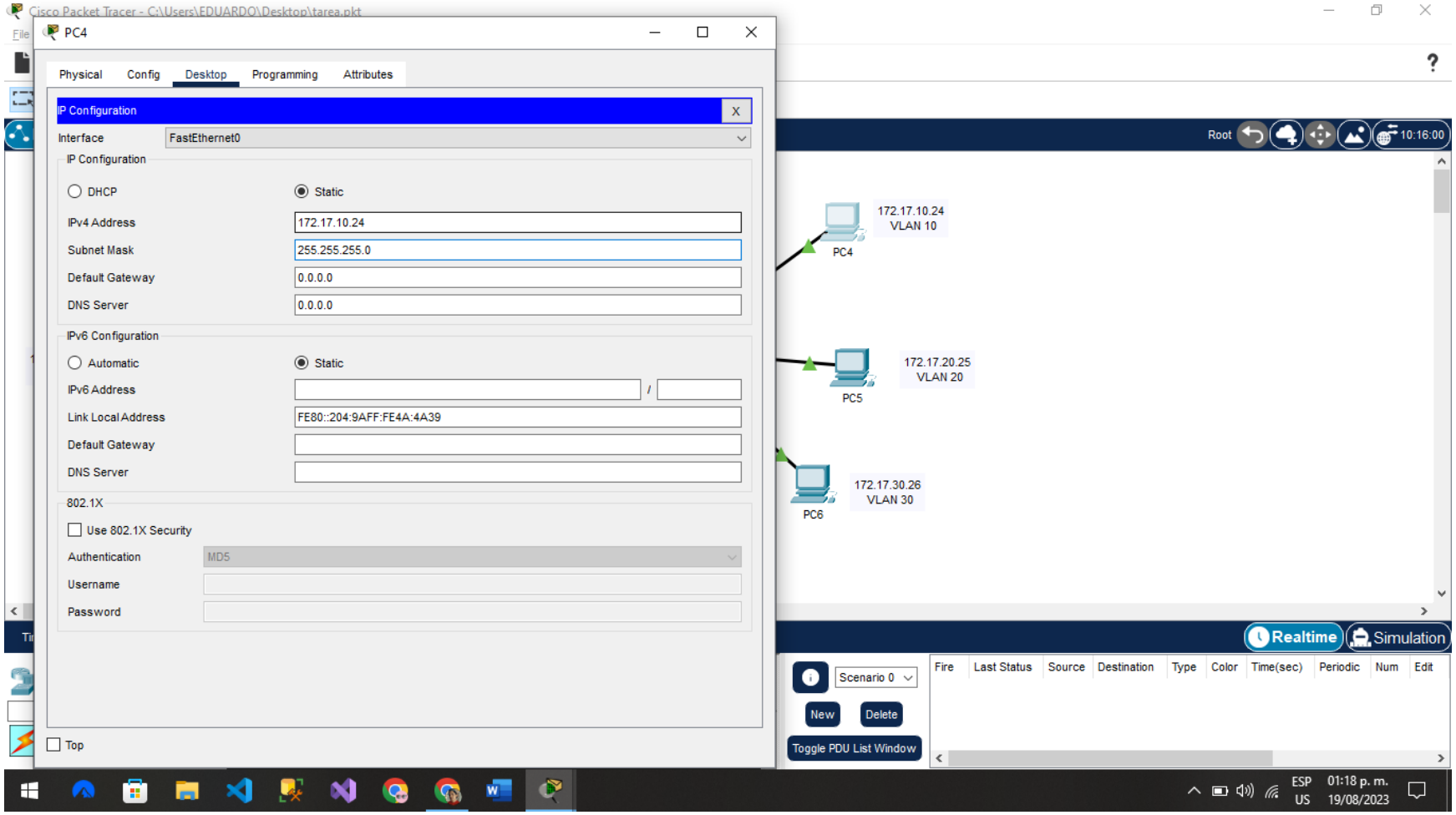

S1
Physical
Config
CLI
Attributes
IOS Command Line Interface
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99), with Switch GigabitEthernet0/2 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/1 (99), with Switch GigabitEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/1 (99), with Switch GigabitEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99), with Switch GigabitEthernet0/2 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99), with Switch GigabitEthernet0/2 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/1 (99), with Switch GigabitEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99), with Switch GigabitEthernet0/2 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/1 (99), with Switch GigabitEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/1 (99), with Switch GigabitEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99), with Switch GigabitEthernet0/2 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/1 (99), with Switch GigabitEthernet0/1 (1).
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on GigabitEthernet0/2 (99), with Switch GigabitEthernet0/2 (1).
Copy
Paste

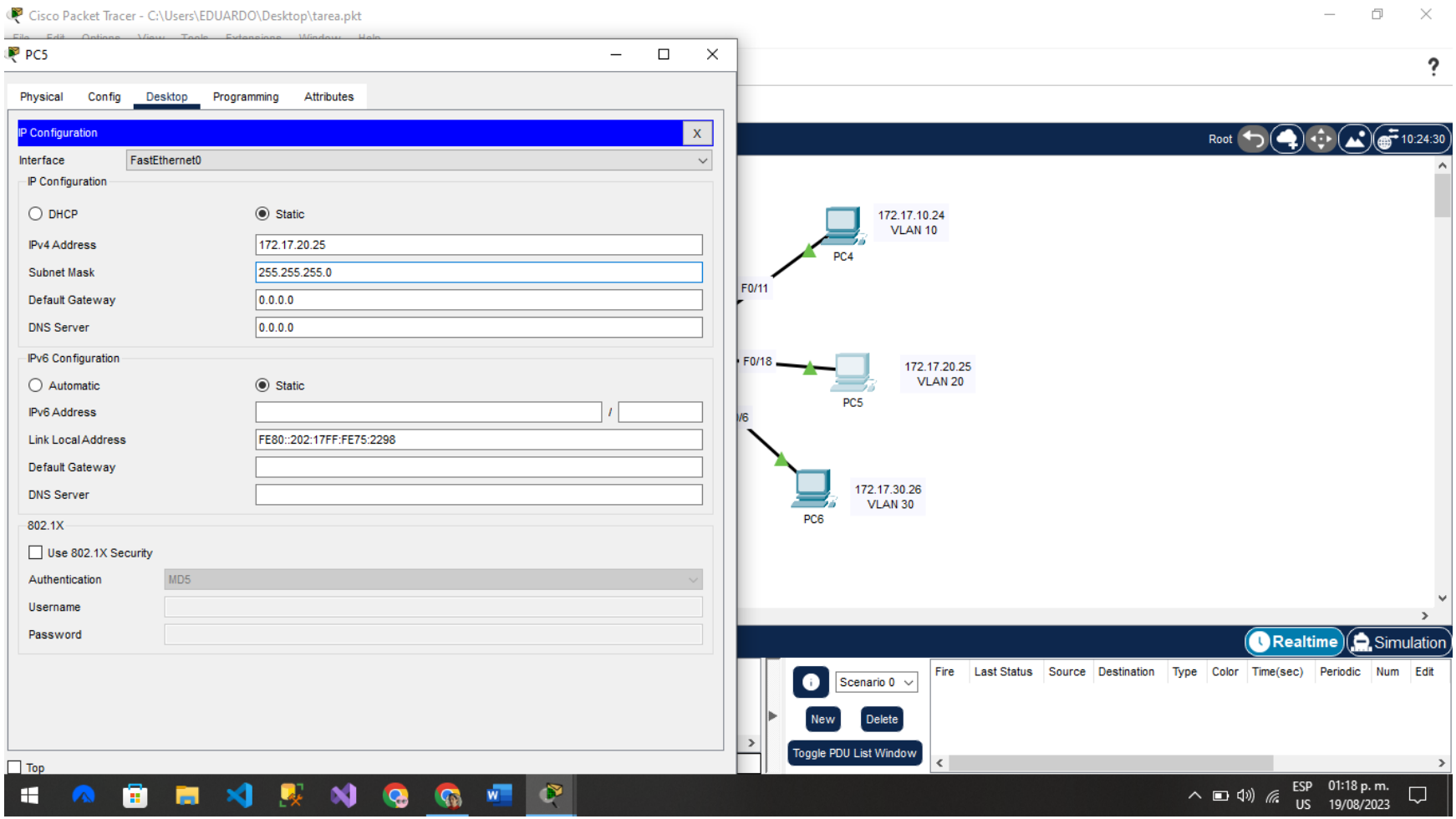
CONFIGURACION DE LAS IP DE LAS PC

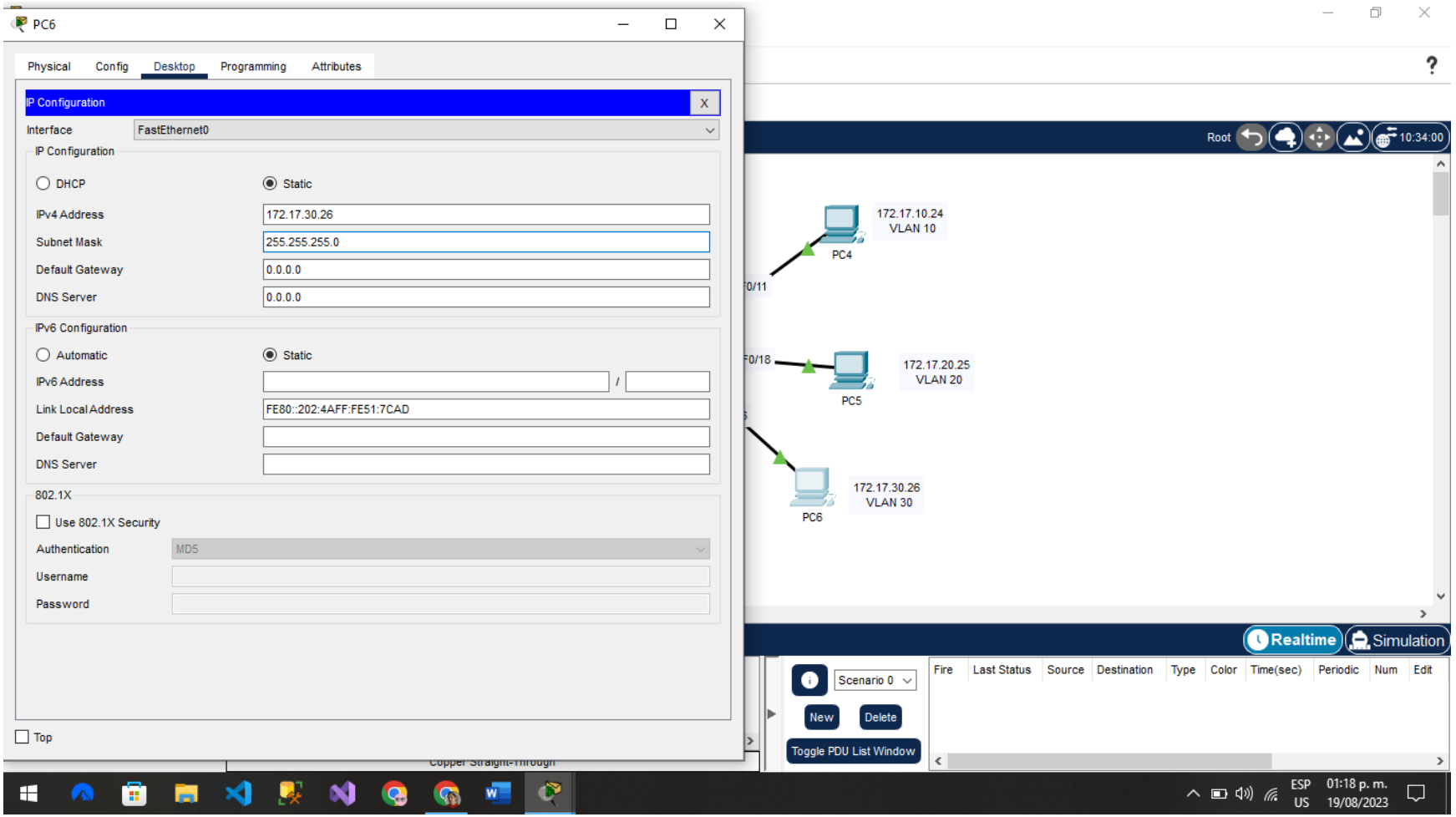



Cisco Packet Tracer - C:\Users\EDUARDO\Desktop\tarea.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 112, y: 206
172.17.10.21
VLAN 10
PC1
F0/11
G0/1
172.17.20.22
VLAN 20
F0/18
S2
PC2
F0/6
172.17.30.23
VLAN 30
PC3
Time: 00:24:22
Root
09:58:00
Realtime Simulation
Type Color Time(sec) Periodic Num Edit
PC2
Physical Config Desktop Programming Attributes
IP Configuration
X
Interface FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address 172.17.20.22
Subnet Mask 255.255.255.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address FE80::260:2FFF:FE7D:E030
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5
Username
Password
ESP
US
01:17 p. m.
19/08/2023

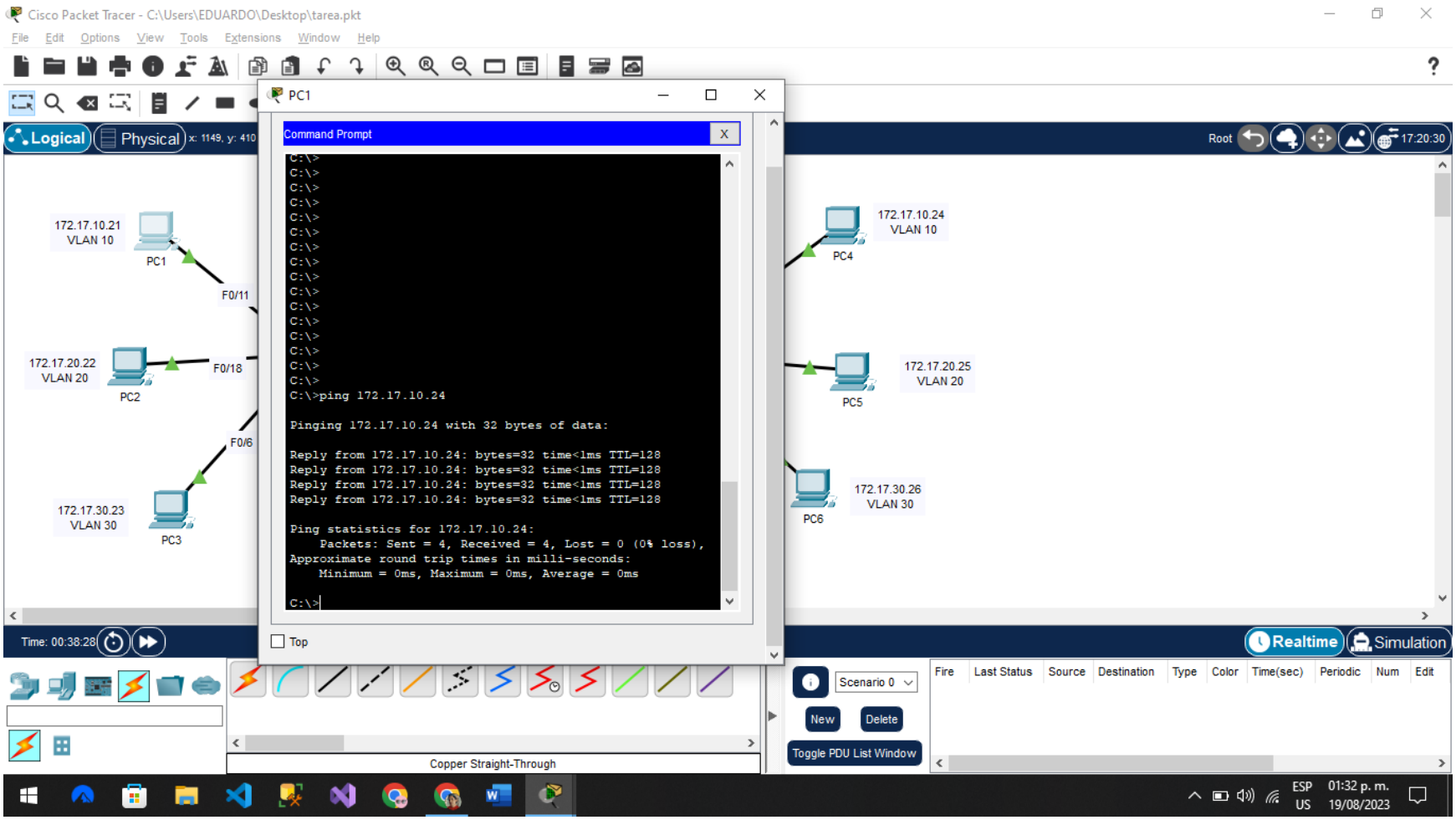

Cisco Packet Tracer - C:\Users\EDUARDO\Desktop\tarea.pkt
File Edit Options View Tools Extensions Window Help
Logical Physical x: 156, y: 329
Root 10:06:00
172.17.10.21
VLAN 10
PC1
F0/11
172.17.20.22
VLAN 20
PC2
F0/18
G0/1
S2
F0/6
172.17.30.23
VLAN 30
PC3
Time: 00:24:37
Realtime Simulation
Type Color Time(sec) Periodic Num Edit
PC3
Physical Config Desktop Programming Attributes
IP Configuration
X
Interface FastEthernet0
IP Configuration
DHCP Static
IPv4 Address 172.17.30.23
Subnet Mask 255.255.255.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
Automatic Static
IPv6 Address /
Link Local Address FE80::2E0:A3FF:FED1:E7C7
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5
Username
Password
Top
ESP US 01:17 p. m. 19/08/2023


Cisco Packet Tracer - C:\Users\EDUARDO\Desktop\tarea.pkt
File
PC4
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
172.17.10.24
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::204:9AFF:FE4A:4A39
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Root
10:16:00
172.17.10.24
VLAN 10
PC4
172.17.20.25
VLAN 20
PC5
172.17.30.26
VLAN 30
PC6
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
ESP
US
01:18 p. m.
19/08/2023

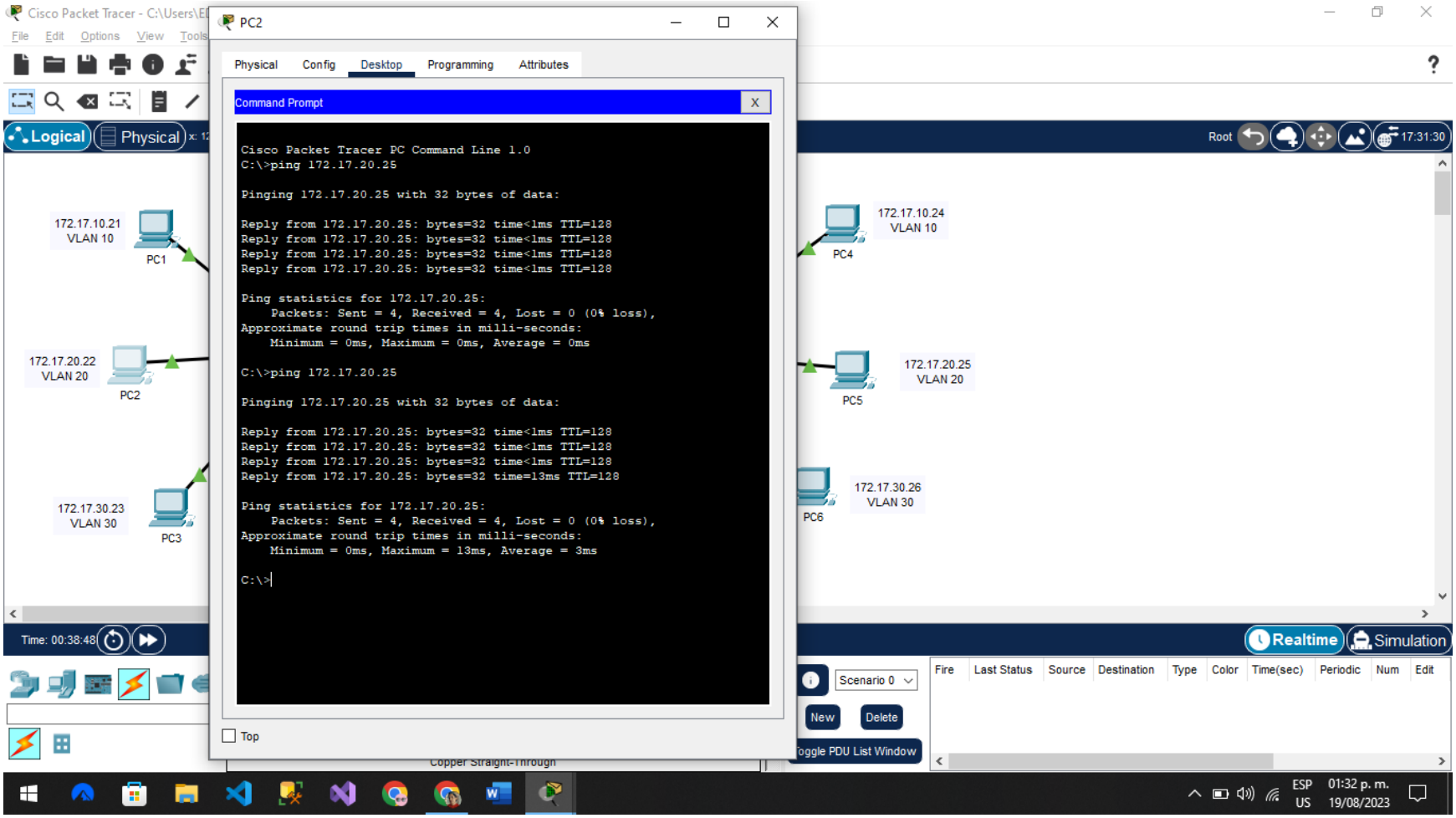

Cisco Packet Tracer - C:\Users\EDUARDO\Desktop\tarea.pkt
PC5
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
172.17.20.25
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::202:17FF:FE75:2298
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Root
10:24:30
172.17.10.24
VLAN 10
PC4
F0/11
F0/18
172.17.20.25
VLAN 20
PC5
172.17.30.26
VLAN 30
PC6
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
ESP
US
01:18 p. m.
19/08/2023


PC6
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
172.17.30.26
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::202:4AFF:FE51:7CAD
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Root
10:34:00
172.17.10.24
VLAN 10
PC4
172.17.20.25
VLAN 20
PC5
172.17.30.26
VLAN 30
PC6
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
ESP
US
01:18 p. m.
19/08/2023

PING CON LAS VLAN 10



PING CON LAS VLAN 20



PING CON LAS VLAN 30