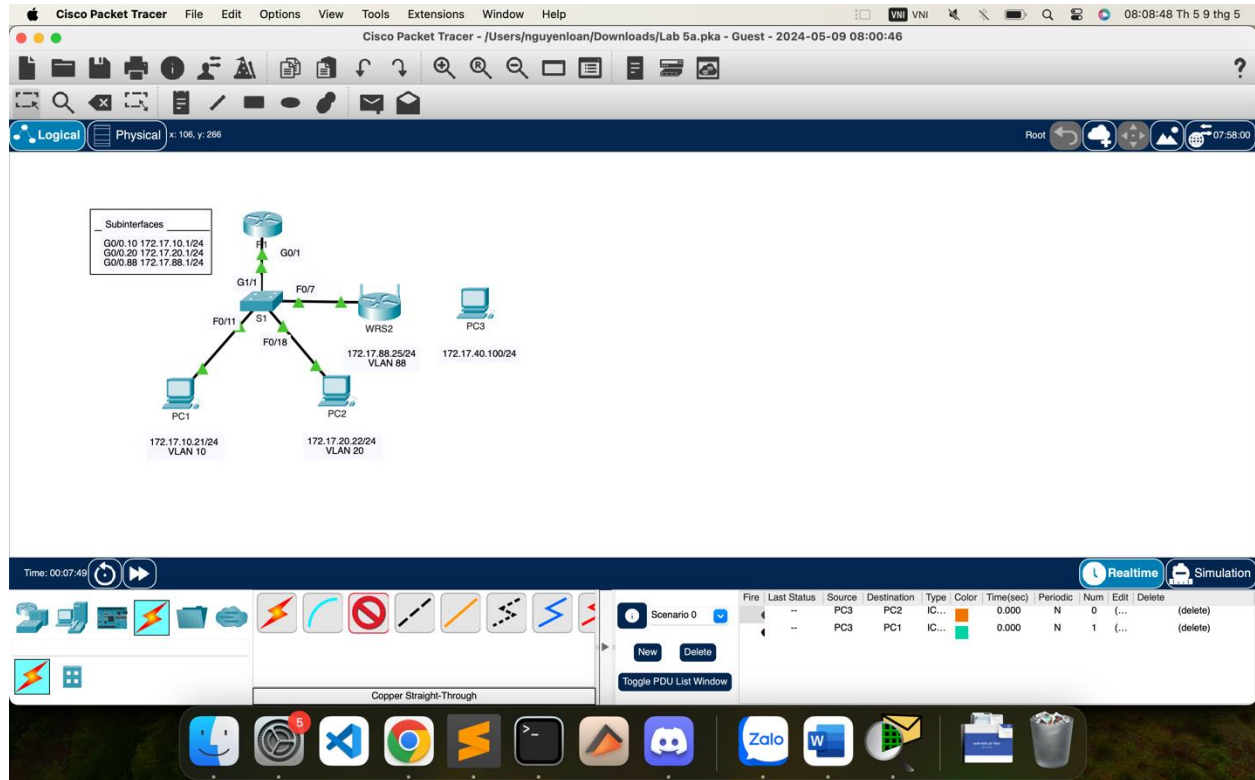


Báo cáo thực hành Lab5 GVHD: Ngô Khánh Khoa

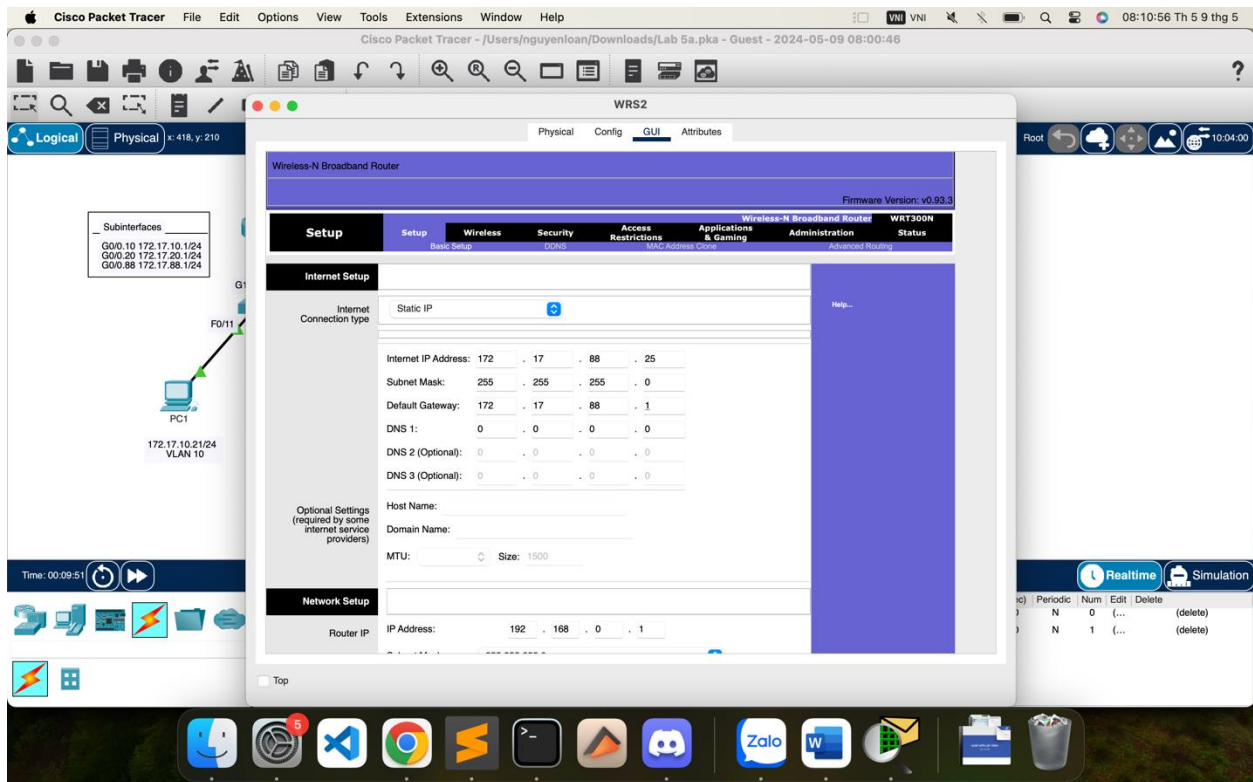
Họ và tên: Đỗ Phương Duy
MSSV: 23520362

TASK 1:

1.1



1.2



Network Setup

Router IP

IP Address:

172

.

17

.

40

.

1

Subnet Mask:

255.255.255.0

DHCP Server Settings

DHCP Server:

☒ Enabled
☐ Disabled

DHCP Reservation

Start IP Address:

192.168.1.100

Maximum number of Users:

50

IP Address Range:

192.168.1.100 - 149

Client Lease Time:

0

minutes (0 means one day)

Static DNS 1:

0

.

0

.

0

.

0

Static DNS 2:

0

.

0

.

0

.

0

Static DNS 3:

0

.

0

.

0

.

0

WINS:

0

.

0

.

0

.

0

1.3:

WRS2

PhysicalConfigGUIAttributes

Firmware Version: v0.93.3

Wireless

SetupWirelessSecurityAccess RestrictionsApplications & GamingWireless-N Broadband RouterAdministrationStatus

Basic Wireless SettingsWireless SecurityGuest NetworkWireless MAC FilterAdvanced Wireless Settings

Basic Wireless Settings

Network Mode:

Wireless-N Only

Network Name (SSID):

WRS_LAN

Radio Band:

Standard - 20MHz Channel

Wide Channel:

3

Standard Channel:

1 - 2.412GHz

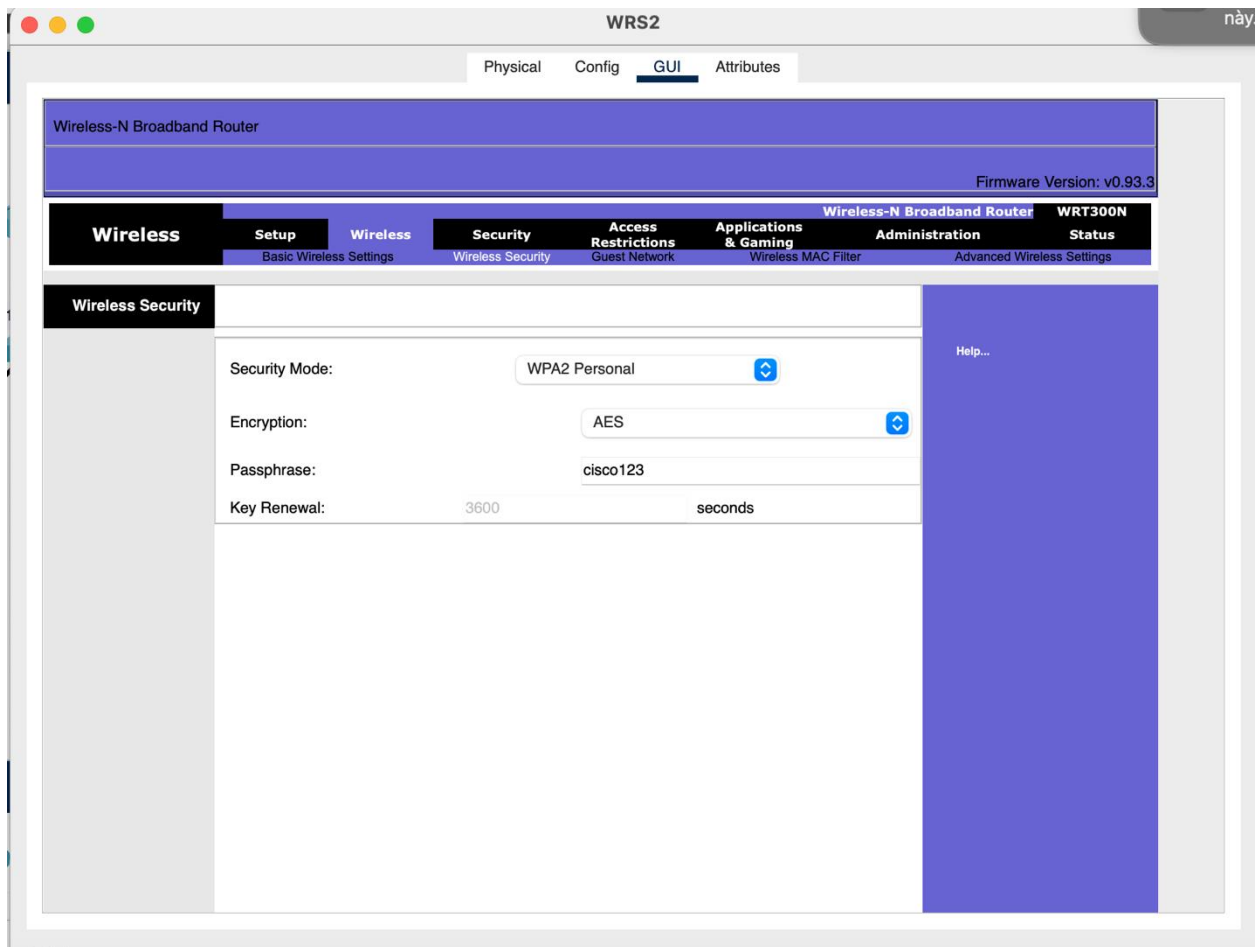
SSID Broadcast:

Enabled

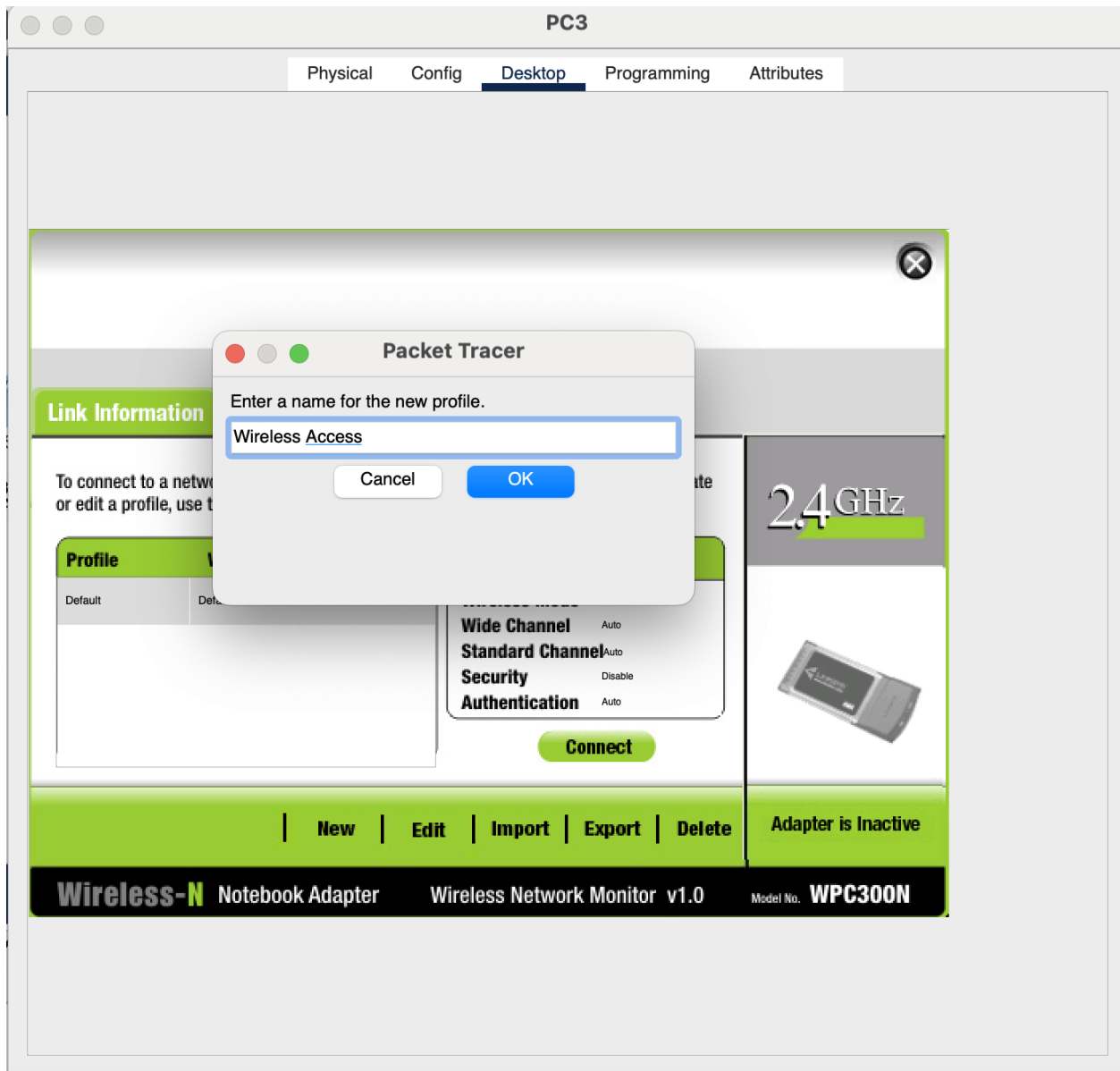
Disabled

Help...

☐ Top



1.4:



PC3

PhysicalConfigDesktopProgrammingAttributes

Creating a Profile

Wireless Mode

Please choose the Wireless Mode that best suits your needs.

☒ Infrastructure Mode

Select Infrastructure Mode if you want to connect to a wireless router or access point.

☐ Ad-Hoc Mode

Select Ad-Hoc Mode if you want to connect to another wireless device directly without using a wireless router or access point.

Please enter the wireless network name (SSID) for your wireless network.

The wireless network name is shared by all devices in a wireless network and is case-sensitive.

Wireless Network Name

WRS_LAN

Back

Next

Wireless-N Notebook Adapter

Wireless Network Monitor v1.0

Model No. WPC300N

☐ Top

PC3

PhysicalConfigDesktopProgrammingAttributes

Creating a Profile

Network Settings

☒ Obtain network settings automatically (DHCP)
Select this option to have your network settings assigned automatically.

☐ Specify network settings
Select this option to specify the network settings for the adapter.

IP Address

DNS 1

Subnet Mask

DNS 2

Default Gateway

Back

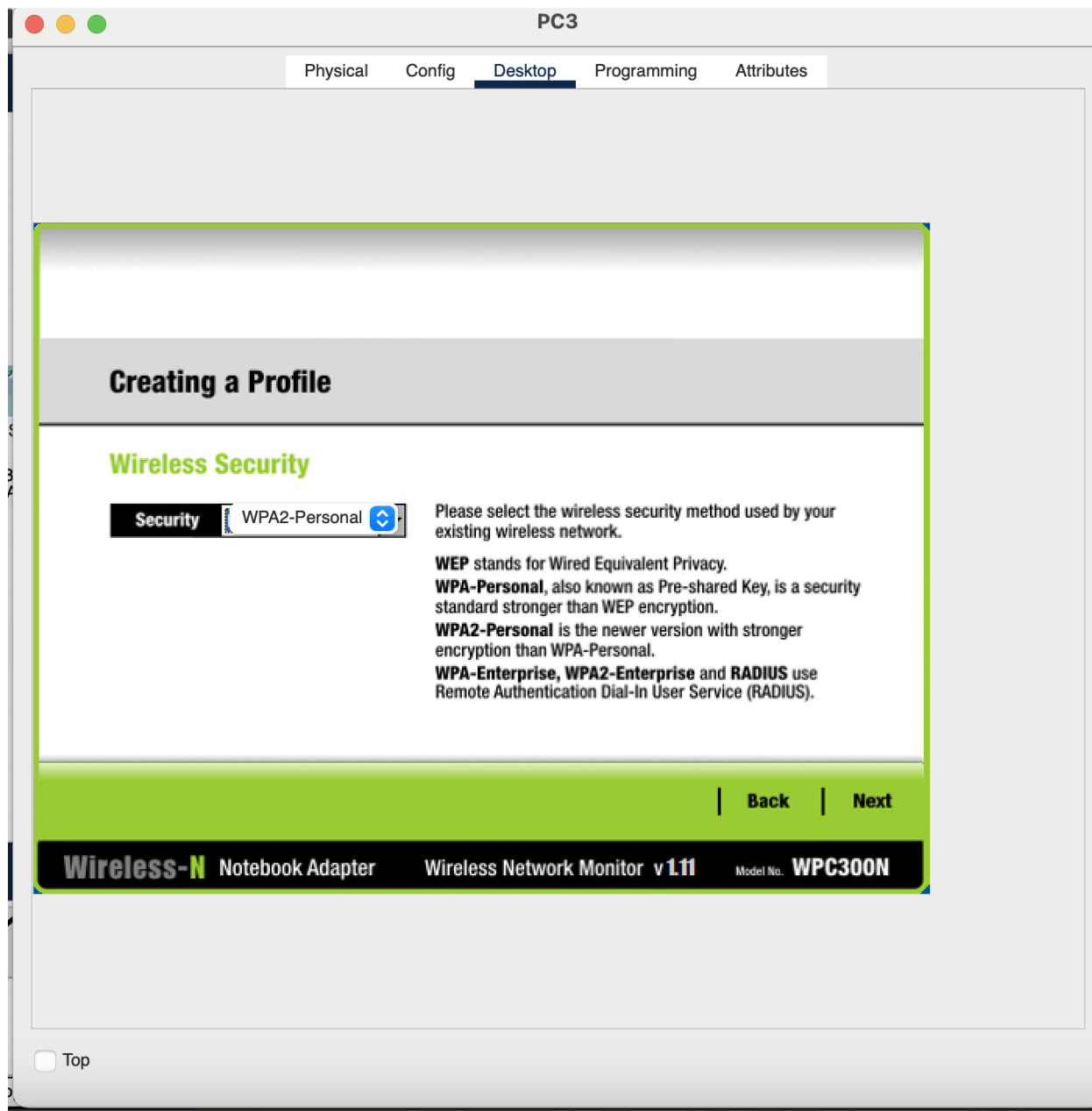
Next

Wireless-N Notebook Adapter

Wireless Network Monitor v1.0

Model No. WPC300N

☐ Top

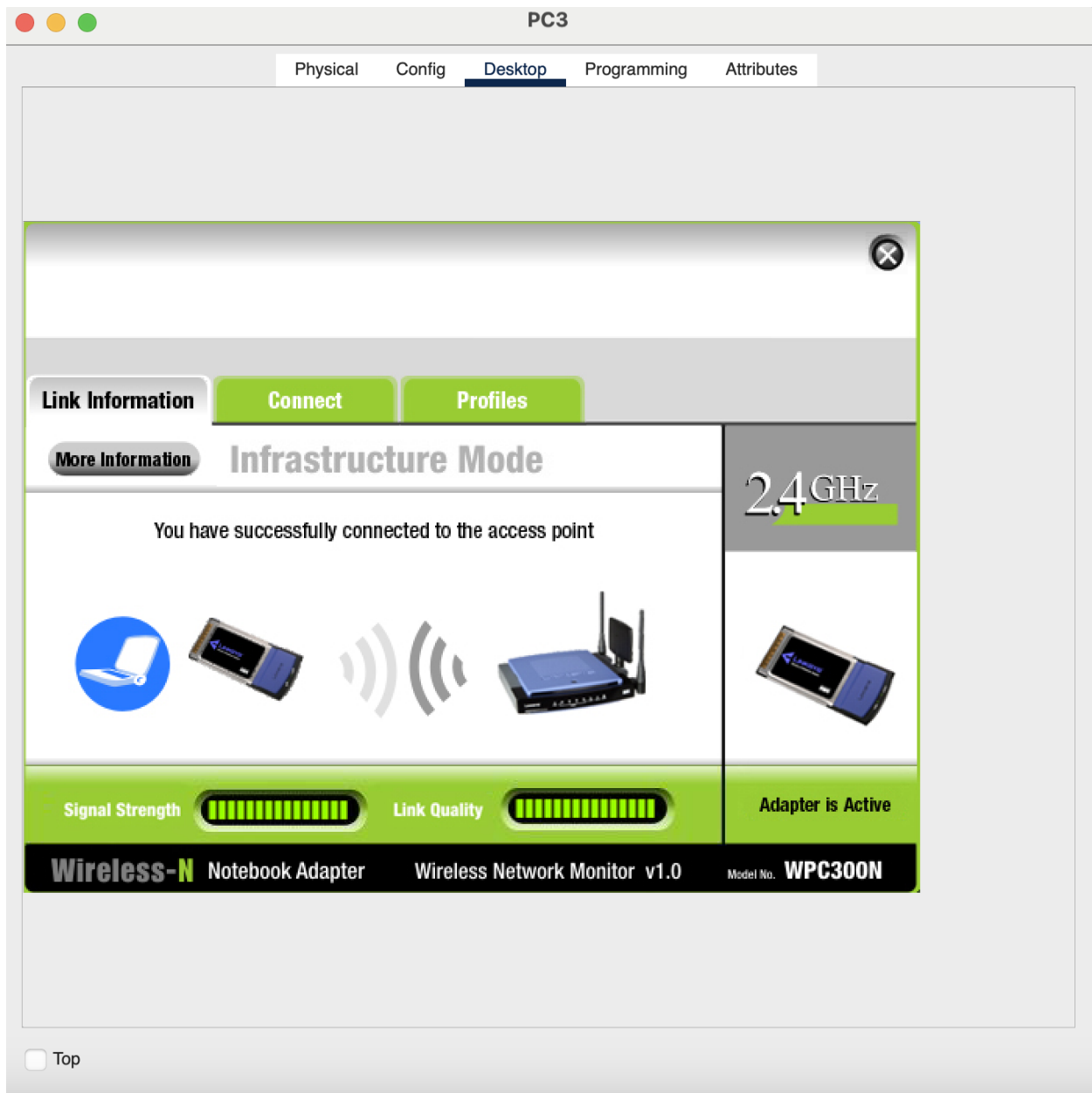


Confirm New Settings

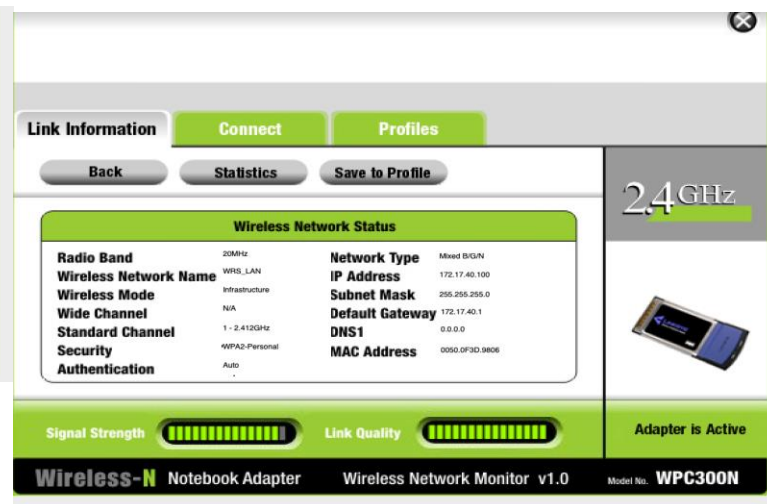
Profile Settings

Wireless Network Name	WRS_LAN	IP Address	Auto
Wireless Mode	Infrastructure	Subnet Mask	Auto
Network Mode	Mixed Mode	Default Gateway	Auto
Radio Band	Auto	DNS1	Auto
Wide Channel	Auto	DNS2	
Standard Channel	Auto		
Security	WPA2 Personal		
Authentication	Auto		

[Exit](#)[Back](#)[Save](#)



1.5:



1.6:

Subinterfaces

G0/0.10 172.17.10.1/24

G0/0.20 172.17.20.1/24

G0/0.88 172.17.88.1/24

PC1

172.17.10.21/24

VLAN 10

Packet Tracer – Configuring Wireless LAN Access

Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	G0/0.10	172.17.10.1	255.255.255.0	N/A
	G0/0.20	172.17.20.1	255.255.255.0	N/A
	G0/0.88	172.17.88.1	255.255.255.0	N/A
PC1	NIC	172.17.10.21	255.255.255.0	172.17.10.1
PC2	NIC	172.17.20.22	255.255.255.0	172.17.20.1
PC3	NIC	DHCP Assigned	DHCP Assigned	DHCP Assigned
WRS2	NIC	172.17.88.25	255.255.255.0	172.17.88.1

Objectives

Time Elapsed: 00:34:38

Completion: 100/100

Time: 00:33:08

Top

Dock

Check Results

Scenario 0

New

Delete

Toggle PDU List Window

Fire

Last Status

Source

Destination

Type

Color

Time(sec)

Periodic

Num

Edit

Delete

Back

1/1

Next

Realtime

Simulation

Copper Straight-Through

Cisco Packet Tracer - /Users/nguyenloan/Downloads/Lab 5a.pka - Guest - 2024-05-09 08:00:46

Activity Results

Time Elapsed: 00:34:46

Congratulations Guest! You completed the activity.

Overall Feedback

Assessment Items

Connectivity Tests

Completed Feedback: Congratulations! You successfully completed the **Configuring Wireless LAN Access** activity. However, your final score may change based on your answers to the questions in the Instructions. Consult your instructor.

Close

Cisco Packet Tracer - /Users/nguyenloan/Downloads/Lab 5a.pka - Guest - 2024-05-09 08:00:46

Activity Results Time Elapsed: 00:35:03

Congratulations Guest! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
PC3				
Wireless				
Security Mode	Correct	1	Wireless Client ...	
Authen Type	Correct	4	Wireless Client ...	
Pass Phrase	Correct	5	Wireless Client ...	
SSID	Correct			
WRS2				
(deprecated) DHCP Server	Correct	10	Wireless Router ...	
(deprecated) DHCP Enable	Correct	0	ip	
(deprecated) Pool	Correct	0	Wireless Router ...	
(deprecated) Pool linkysPool	Correct	10	Wireless Router ...	
(deprecated) Default Gateway	Correct	10	Wireless Router ...	
Default Gateway	Correct	10		
Ports				
Internet	Correct	10	Wireless Router ...	
IP Address	Correct	5	Device Connection	
Link to S1	Correct	5	Device Connection	
Connects to FastEthernet0/7	Correct	0	Other	
Wireless				
Security Mode	Correct	10	Wireless Router ...	
Authen Type	Correct	10	Wireless Router ...	
Pass Phrase	Correct	10	Wireless Router ...	
SSID	Correct	10	Wireless Router ...	
SSID BroadCast	Correct	10	Wireless Router ...	

Component	Items/Total	Score
Device Connection	2/2	10/10
Wireless Client Configuration	3/3	10/10
Wireless Router Configuration	8/8	80/80

Score : 100/100
Item Count : 13/13

Close

TASK2:

2.1:

User Access Verification

Password:

Password:

R1>enable

Password:

R1#config t

Enter configuration commands, one per line. End with CNTL/Z.

R1(config)# interface gigabite

R1(config)# interface gigabitethernet 0/0

R1(config-if)# ip address 192.168.10.1 255.255.255.0

R1(config-if)#no shutdown

R1(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

R1(config-if)#exit

R1(config)#exit

R1#

%SYS-5-CONFIG_I: Configured from console by console

copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

R1#

Thao tác tương tự với 0/1 của R1, 0/0 của R2 và 0/1 của R2 với ip address và submask tương ứng với bảng.

2.2:

```

R1#show run
Building configuration...

Current configuration : 1204 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname R1
!
!
!
enable secret 5 $1$mERr$9cTjUIEqNGurQiFU.ZeCil
!
!
!
!
!
ip cef
no ipv6 cef

R1#show ip interface brief

```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	192.168.10.1	YES	manual	up	up
GigabitEthernet0/1	unassigned	YES	unset	administratively down	down
Serial0/0/0	209.165.200.225	YES	manual	up	up
Serial0/0/1	unassigned	YES	unset	administratively down	down
FastEthernet0/1/0	unassigned	YES	unset	administratively down	down
FastEthernet0/1/1	unassigned	YES	unset	administratively down	down
FastEthernet0/1/2	unassigned	YES	unset	administratively down	down
FastEthernet0/1/3	unassigned	YES	unset	administratively down	down
Vlan1	unassigned	YES	unset	administratively down	down

```

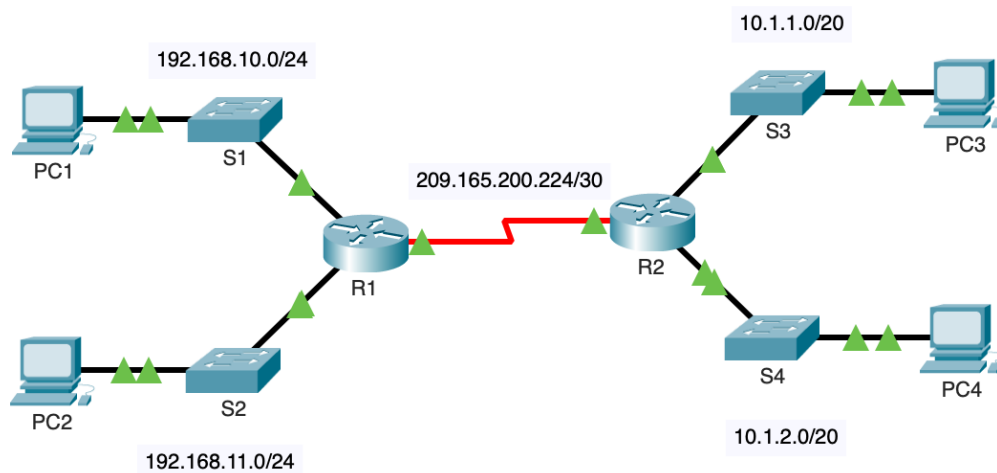
R1#
R1#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.10.0/24 is directly connected, GigabitEthernet0/0
L       192.168.10.1/32 is directly connected, GigabitEthernet0/0
    209.165.200.0/24 is variably subnetted, 3 subnets, 3 masks
D       209.165.200.0/24 is a summary, 00:05:58, Null0
C       209.165.200.224/30 is directly connected, Serial0/0/0
L       209.165.200.225/32 is directly connected, Serial0/0/0

```

2.3:



Packet Tracer - Connect a Router to a LAN

Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	G0/0	192.168.10.1	255.255.255.0	N/A
	G0/1	192.168.11.1	255.255.255.0	N/A
	S0/0/0 (DCE)	209.165.200.225	255.255.255.252	N/A
R2	G0/0	10.1.1.1	255.255.255.0	N/A
	G0/1	10.1.2.1	255.255.255.0	N/A
	S0/0/0	209.165.200.226	255.255.255.252	N/A
PC1	NIC	192.168.10.10	255.255.255.0	192.168.10.1
PC2	NIC	192.168.11.10	255.255.255.0	192.168.11.1
PC3	NIC	10.1.1.10	255.255.255.0	10.1.1.1
PC4	NIC	10.1.2.10	255.255.255.0	10.1.2.1

Objectives

Time Elapsed: 00:22:57

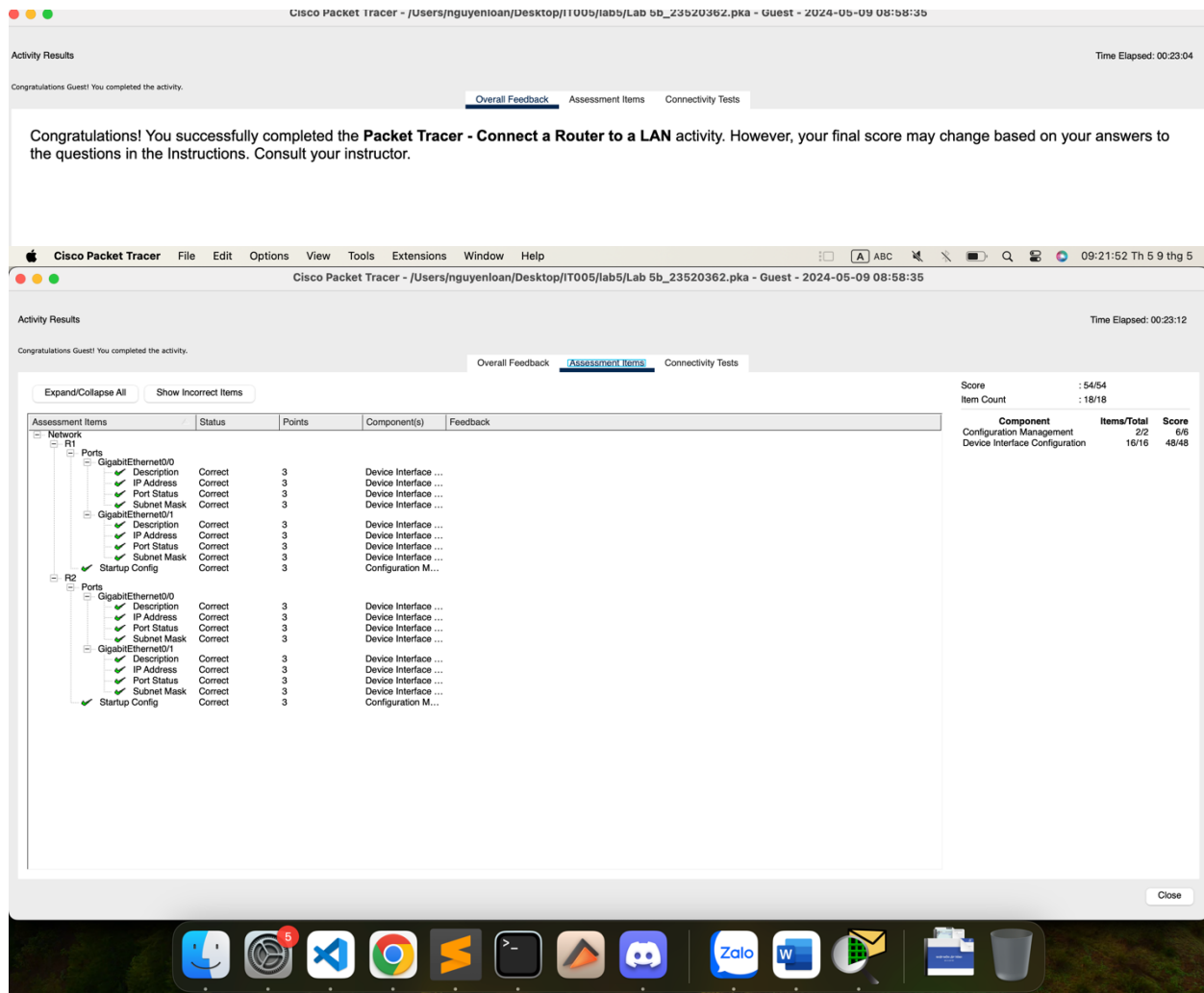
Completion: 54/54

☐ Top ☐ Dock [Check Results](#)

[Back](#)

1/1

[Next](#)



TASK 3:

3.1:

Mô hình có 8 mạng con

STT	Địa chỉ mạng	Địa chỉ đầu	Địa chỉ cuối	Địa chỉ broadcast
0	192.168.100.0	192.168.100.1	192.168.100.30	192.168.100.31
1	192.168.100.32	192.168.100.33	192.168.100.62	192.168.100.63
2	192.168.100.64	192.168.100.65	192.168.100.94	192.168.100.95
3	192.168.100.96	192.168.100.97	192.168.100.126	192.168.100.127
4	192.168.100.128	192.168.100.129	192.168.100.158	192.168.100.159
5	192.168.100.160	192.168.100.161	192.168.100.190	192.168.100.191
6	192.168.100.192	192.168.100.193	192.168.100.222	192.168.100.223
7	192.168.100.224	192.168.100.225	192.168.100.254	192.168.100.255

Devices	Interface	IP Address	Subnet Mask	Default Gateway
R1	G0/0	192.168.100.1	255.255.255.224	N/A
	G0/1	192.168.100.33	255.255.255.224	N/A
	S0/0/0	192.168.100.129	255.255.255.224	N/A
R2	G0/0	192.168.100.65	255.255.255.224	N/A
	G0/1	192.168.100.97	255.255.255.224	N/A
	S0/0/0	192.168.100.158	255.255.255.224	N/A
S1	VLAN1	192.168.100.2	255.255.255.224	192.168.100.1
S2	VLAN1	192.168.100.34	255.255.255.224	192.168.100.33
S3	VLAN1	192.168.100.66	255.255.255.224	192.168.100.65
S4	VLAN1	192.168.100.98	255.255.255.224	192.168.100.97
PC1	NIC	192.168.100.30	255.255.255.224	192.168.100.1
PC2	NIC	192.168.100.62	255.255.255.224	192.168.100.33
PC3	NIC	192.168.100.94	255.255.255.224	192.168.100.65
PC4	NIC	192.168.100.126	255.255.255.224	192.168.100.97

3.2:


```
R1>enable
R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#
R1(config)# interface giga
R1(config)# interface gigabitEthernet 0/0
R1(config-if)# ip address 192.168.100.1 255.255.255.224
R1(config-if)# no shutdown

R1(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
exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console
copy run start
Destination filename [startup-config]?
Building configuration...
[OK]

R1# config t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)# interface gi
R1(config)# interface gigabitEthernet 0/1
R1(config-if)# ip address 192.168.100.33 255.255.255.224
R1(config-if)# no shutdown

R1(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

R1(config-if)#exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console
copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
R1#
```

```
S3>enable
S3#config t
Enter configuration commands, one per line.  End with CNTL/Z.
S3(config)#interface v
S3(config)#interface vlan 1
S3(config-if)#ip address 192.168.100.66 255.255.255.224
S3(config-if)#no shutdown

S3(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

S3(config-if)#exit
S3(config)#exit
S3#
%SYS-5-CONFIG_I: Configured from console by console
copy runstart
% Incomplete command.
S3#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
S3#
```

PC4

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address192.168.100.126

Subnet Mask255.255.255.224

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::260:70FF:FE47:AAC1

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

Top

3.3:

Expand/Collapse All

Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
[-] Network				
[-] PC4				
[-] X Default Gateway	Incorrect	2	Default Gateway...	
[-] Ports				
[-] FastEthernet0				
[-] ✓ IP Address	Correct	2	IPv4 Host Addre...	
[-] ✓ Subnet Mask	Correct	2	IPv4 Subnet Ma...	
[-] R1				
[-] Ports				
[-] GigabitEthernet0/0				
[-] ✓ IP Address	Correct	3	IPv4 Host Addre...	
[-] ✓ Port Status	Correct	1	Device Interface ...	
[-] ✓ Subnet Mask	Correct	3	IPv4 Subnet Ma...	
[-] GigabitEthernet0/1				
[-] ✓ IP Address	Correct	3	IPv4 Host Addre...	
[-] ✓ Port Status	Correct	1	Device Interface ...	
[-] ✓ Subnet Mask	Correct	3	IPv4 Subnet Ma...	
[-] S3				
[-] X Default Gateway	Incorrect	3	Default Gateway...	
[-] Ports				
[-] Vlan1				
[-] ✓ IP Address	Correct	3	IPv4 Host Addre...	
[-] ✓ Port Status	Correct	1	Device Interface ...	
[-] ✓ Subnet Mask	Correct	3	IPv4 Subnet Ma...	