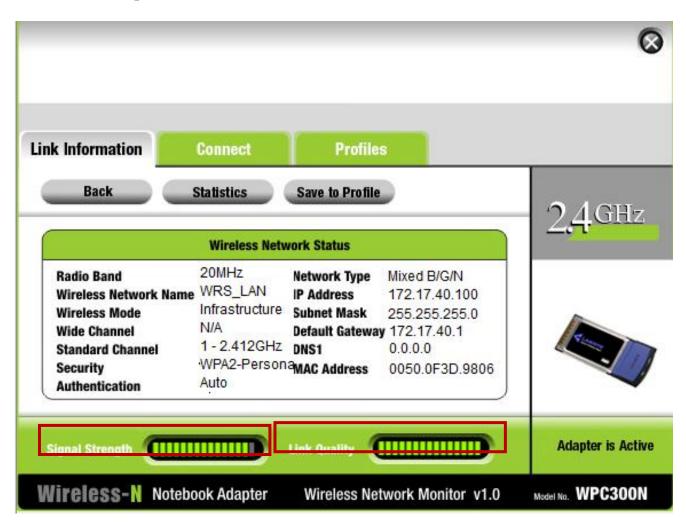
BÁO CÁO THỰC HÀNH LAB 3 MẠNG MÁY TÍNH

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MSSV: 22521060

1. Task 1: Cấu hình thiết bị mạng không dây

1.5 Kiểm tra kết quả kết nối.

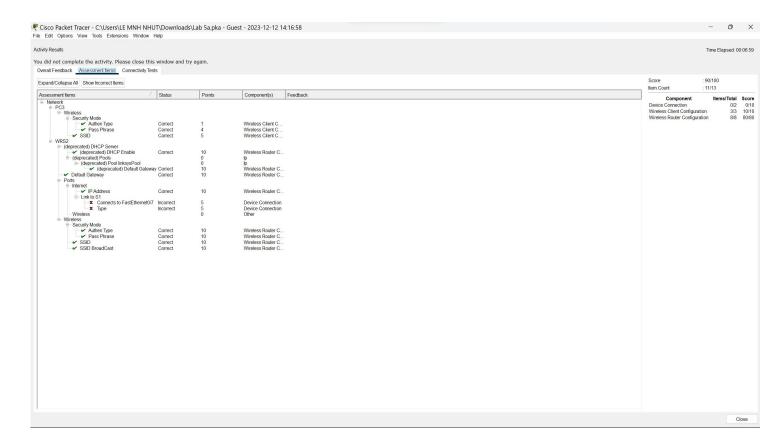


Hình 1.5: Thông tin chi tiết cấu hình địa chỉ IP

1.6 Kiểm tra kết quả thực hành.

Cisco Packet Tracer - C:\Users\LE MNH NHUT\Downloads\Lab 5a.pka - Gu	1 1		×
File Edit Options View Tools Extensions Window Help			
Activity Results	Time Ela	psed: 00:	01:53
You did not complete the activity. Please close this window and try again.			
Overall Feedback Assessment Items Connectivity Tests			
Incomplete Feedback: If you are having difficulty completing this activity, revisit the following resources:			
 Section: Wireless LAN Configuration. Topic: Configuring Wireless LAN Access. Lab - A: Investigating Wireless Implementations 			
		Clo	se

Hình 1.6a: Kết quả tổng quát khi đã thực hiện cấu hình



Hình 1.6b: Kết quả chi tiết khi đã thực hiện cấu hình

- 2. Task 2: Cấu hình địa chỉ IP trên router.
- 2.2 Kiểm tra cấu hình.

```
R1#show run
Building configuration ...
Current configuration: 1218 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
hostname R1
 ı
 I
enable secret 5 $1$mERr$9cTjUIEqNGurQiFU.ZeCi1
ip cef
no ipv6 cef
R1#show ip interface brief
                                          OK? Method Status
                                                                                Protocol
Interface
                         IP-Address
GigabitEthernet0/0
                          192.168.10.1
                                          YES manual up
                                                                                up
                         192.168.11.1 YES manual up
GigabitEthernet0/1
Serial0/0/0
                          209.165.200.225 YES manual up
                                          YES unset administratively down down
Serial0/0/1
                         unassigned
FastEthernet0/1/0
                         unassigned
FastEthernet0/1/1
                         unassigned
FastEthernet0/1/2
                         unassigned
FastEthernet0/1/3
                         unassigned
                                           YES unset administratively down down
Vlan1
                         unassigned
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
      10.0.0.0/8 [90/2170112] via 209.165.200.226, 00:09:19, Serial0/0/0
      192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C
         192.168.10.0/24 is directly connected, GigabitEthernet0/0
         192.168.10.1/32 is directly connected, GigabitEthernet0/0
L
      192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks
         192.168.11.0/24 is directly connected, GigabitEthernet0/1
C
         192.168.11.1/32 is directly connected, GigabitEthernet0/1
L
      209.165.200.0/24 is variably subnetted, 3 subnets, 3 masks
D
         209.165.200.0/24 is a summary, 00:12:33, Null0
C
         209.165.200.224/30 is directly connected, Serial0/0/0
         209.165.200.225/32 is directly connected, Serial0/0/0
```

```
R2#show run
Building configuration...
Current configuration: 923 bytes
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
hostname R2
1
1
1
enable secret 5 $1$mERr$9cTjUIEqNGurQiFU.ZeCi1
1
1
ip cef
no ipv6 cef
R2#show ip interface brief
                    IP-Address
Interface
                                     OK? Method Status
                                                                        Protocol
                     10.1.1.1
GigabitEthernet0/0
                                       YES manual up
                                                                        up
GigabitEthernet0/1
                      10.1.2.1
                                      YES manual up
                                                                        up
Serial0/0/0
                      209.165.200.226 YES manual up
Serial0/0/1
                      unassigned
                                      YES unset administratively down down
Vlan1
                      unassigned
                                      YES unset administratively down down
R2#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
     10.0.0.0/8 is variably subnetted, 5 subnets, 3 masks
       10.0.0.0/8 is a summary, 00:10:45, Null0
D
       10.1.1.0/24 is directly connected, GigabitEthernet0/0
C
        10.1.1.1/32 is directly connected, GigabitEthernet0/0
C
        10.1.2.0/24 is directly connected, GigabitEthernet0/1
        10.1.2.1/32 is directly connected, GigabitEthernet0/1
L
     192.168.10.0/24 [90/2170112] via 209.165.200.225, 00:13:59, Serial0/0/0
D
     192.168.11.0/24 [90/2170112] via 209.165.200.225, 00:12:52, Serial0/0/0
D
     209.165.200.0/24 is variably subnetted, 3 subnets, 3 masks
        209.165.200.0/24 is a summary, 00:10:45, Null0
D
        209.165.200.224/30 is directly connected, Serial0/0/0
C
L
        209.165.200.226/32 is directly connected, Serial0/0/0
```

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.1.2.10

Pinging 10.1.2.10 with 32 bytes of data:

Request timed out.

Reply from 10.1.2.10: bytes=32 time=19ms TTL=126

Reply from 10.1.2.10: bytes=32 time=10ms TTL=126

Reply from 10.1.2.10: bytes=32 time=10ms TTL=126

Ping statistics for 10.1.2.10:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 10ms, Maximum = 19ms, Average = 13ms
```

$R2 \rightarrow PC2$

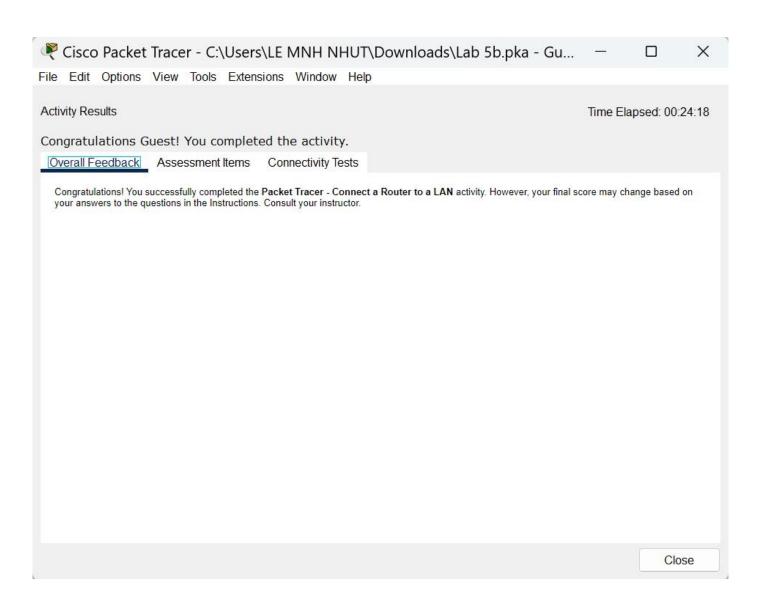
```
R2#ping 192.168.11.10

Type escape sequence to abort.

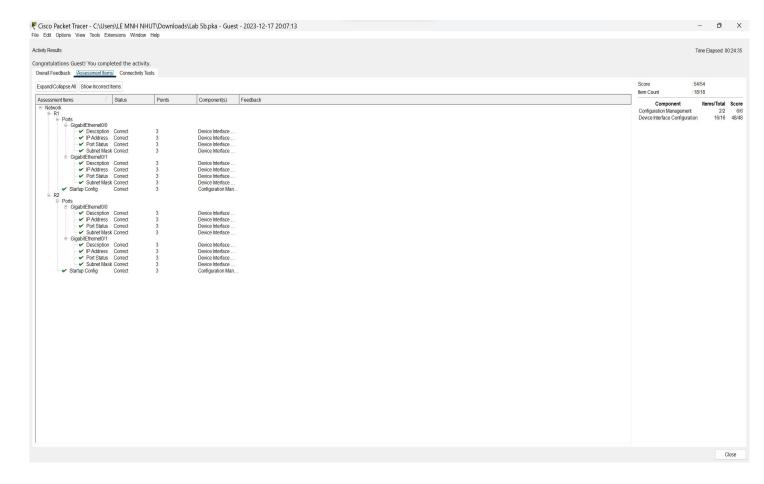
Sending 5, 100-byte ICMP Echos to 192.168.11.10, timeout is 2 seconds:
.!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 6/8/11 ms
```

2.3 Kiểm tra kết quả thực hành.



Hình 2.3a. Kết quả kiểm tra tổng quát



Hình 2.3b. Kết quả kiểm tra chi tiết

3. Task3: Áp dụng địa chỉ IP

3.1 Chia mạng con và phân bổ IP

- 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

Device	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	VLAN 1	192.168.100.2	255.255.255.224	192.168.100.1
S2	VLAN 1	192.168.100.34	255.255.255.224	192.168.100.33
S3	VLAN 1	192.168.100.66	255.255.255.224	192.168.100.65
S4	VLAN 1	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} Cấu hình thiết bị

R1:

```
R1>enable
R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
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
R1#
%SYS-5-CONFIG_I: Configured from console by console
R1#config t
Enter configuration commands, one per line. End with CNTL/Z.
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
%SYS-5-CONFIG I: Configured from console by console
R1#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
R1#
23:
S3#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
```

S3(config-if) #ip address 192.168.100.66 255.255.255.224

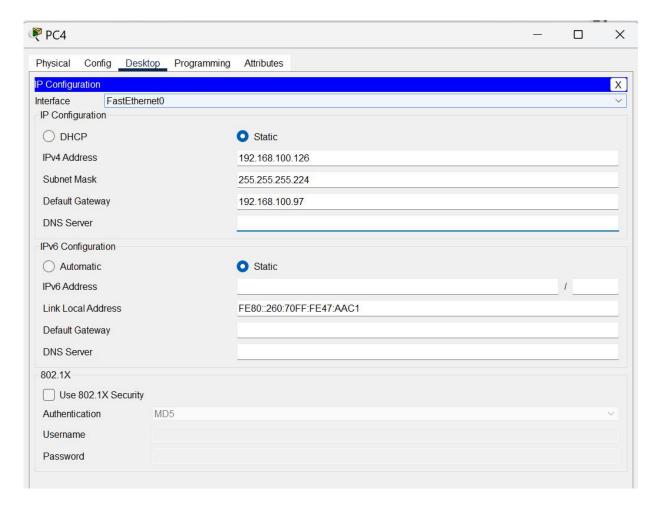
S3(config) #ip default-gateway 192.168.100.65

PC4:

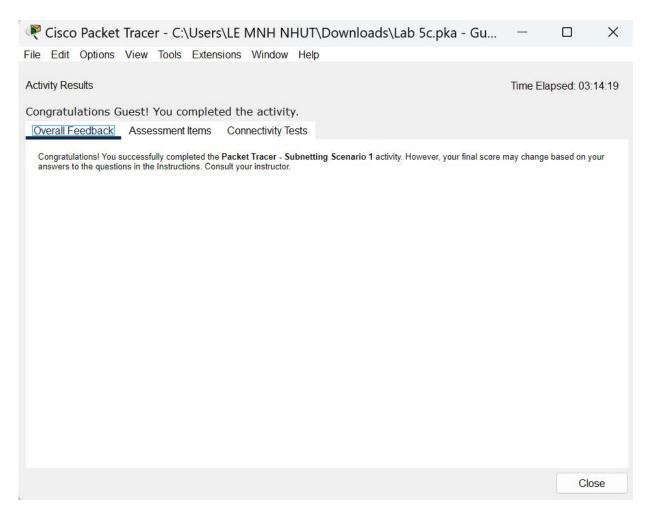
S3(config) #interface vlan 1

S3(config-if) #no shutdown

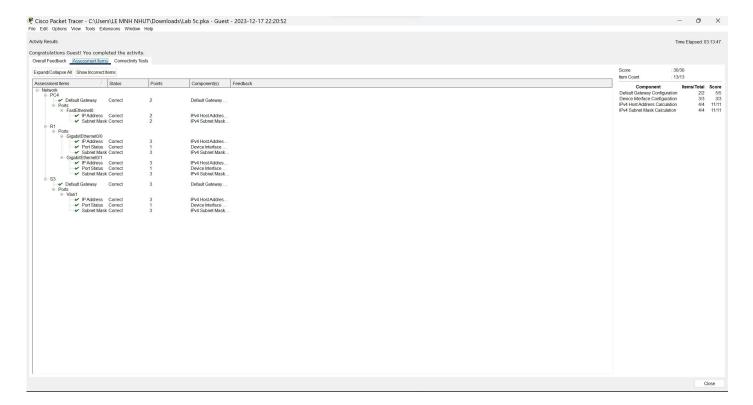
S3(config-if)#exit



3.3 Kiểm tra kết quả thực hành



Hình 3.3: Kết quả kiểm tra tổng quát



Hình 3.3b: Kết quả kiểm tra chi tiết