

Họ và tên: Bùi Đức Anh

MSSV: 19521190_ATCL.2019.1

LAB 5: CẤU HÌNH THIẾT BỊ MẠNG

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

Cisco Packet Tracer - D:\NMMT\Lab 5a.pka

File Edit Options View Tools Extensions Help

Activity Results

Congratulations Guest! You completed the activity.

Time Elapsed: 00:05:16

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.

Cisco Packet Tracer - D:\NMMT\Lab 5a.pka

File Edit Options View Tools Extensions Help

Activity Results

Congratulations Guest! You completed the activity.

Time Elapsed: 00:05:45

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

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

Score : 100/100
Item Count : 13/13

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

Close

2. Task 2: Cấu hình địa chỉ IP trên Router

R1#show ip route

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

```
D    10.0.0.0/8 [90/2170112] via 209.165.200.226, 00:07:22, 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
L      192.168.10.1/32 is directly connected, GigabitEthernet0/0
    192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks
C      192.168.11.0/24 is directly connected, GigabitEthernet0/1
L      192.168.11.1/32 is directly connected, GigabitEthernet0/1
    209.165.200.0/24 is variably subnetted, 3 subnets, 3 masks
D      209.165.200.0/24 is a summary, 00:13:03, 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
```

R1#

#R2 Show run

```
R2#show run
Building configuration...

Current configuration : 925 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname R2
!
!
!
enable secret 5 $1$mERr$9cTjUIEqNGurQiFU.ZeCil
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
license udi pid CISCO1941/K9 sn FTX1524E7C4
!
!
!
!
!
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0
 ip address 10.1.1.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 ip address 10.1.2.1 255.255.255.0
 duplex auto
-----
```

```
!  
interface GigabitEthernet0/0  
 ip address 10.1.1.1 255.255.255.0  
 duplex auto  
 speed auto  
!  
interface GigabitEthernet0/1  
 ip address 10.1.2.1 255.255.255.0  
 duplex auto  
 speed auto  
!  
interface Serial0/0/0  
 ip address 209.165.200.226 255.255.255.252  
!  
interface Serial0/0/1  
 no ip address  
 clock rate 2000000  
 shutdown  
!  
interface Vlan1  
 no ip address  
 shutdown  
!  
router eigrp 1  
 network 10.0.0.0  
 network 209.165.200.0  
 auto-summary  
!  
ip classless  
!  
ip flow-export version 9  
!  
!  
!  
no cdp run  
!  
!  
!  
!  
!  
line con 0  
 password 7 0822455D0A16  
 login  
!  
line aux 0  
!  
line vty 0 4  
 login  
!  
!  
!  
end
```

#R2 show ip interface brief

```
R2#show ip interface brief
Interface                IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0       10.1.1.1        YES manual up          up
GigabitEthernet0/1       10.1.2.1        YES manual up          up
Serial0/0/0              209.165.200.226 YES manual up          up
Serial0/0/1              unassigned      YES unset  administratively down down
Vlan1                    unassigned      YES unset  administratively down down
R2#
```

#R2 show ip route

```
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
D       10.0.0.0/8 is a summary, 00:10:22, Null0
C       10.1.1.0/24 is directly connected, GigabitEthernet0/0
L       10.1.1.1/32 is directly connected, GigabitEthernet0/0
C       10.1.2.0/24 is directly connected, GigabitEthernet0/1
L       10.1.2.1/32 is directly connected, GigabitEthernet0/1
D       192.168.10.0/24 [90/2170112] via 209.165.200.225, 00:16:03, Serial0/0/0
D       192.168.11.0/24 [90/2170112] via 209.165.200.225, 00:13:51, Serial0/0/0
      209.165.200.0/24 is variably subnetted, 3 subnets, 3 masks
D       209.165.200.0/24 is a summary, 00:10:22, Null0
C       209.165.200.224/30 is directly connected, Serial0/0/0
L       209.165.200.226/32 is directly connected, Serial0/0/0
```

Giao diện thành công

Cisco Packet Tracer - D:\NMMMT\Lab 5b.pka

File Edit Options View Tools Extensions Help

Activity Results Time Elapsed: 00:20:43

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				
R1				
Ports				
GigabitEthernet0/0				
Description	Correct	3	Device Interface C...	
IP Address	Correct	3	Device Interface C...	
Port Status	Correct	3	Device Interface C...	
Subnet Mask	Correct	3	Device Interface C...	
GigabitEthernet0/1				
Description	Correct	3	Device Interface C...	
IP Address	Correct	3	Device Interface C...	
Port Status	Correct	3	Device Interface C...	
Subnet Mask	Correct	3	Device Interface C...	
Startup Config	Correct	3	Configuration Man...	
R2				
Ports				
GigabitEthernet0/0				
Description	Correct	3	Device Interface C...	
IP Address	Correct	3	Device Interface C...	
Port Status	Correct	3	Device Interface C...	
Subnet Mask	Correct	3	Device Interface C...	
GigabitEthernet0/1				
Description	Correct	3	Device Interface C...	
IP Address	Correct	3	Device Interface C...	
Port Status	Correct	3	Device Interface C...	
Subnet Mask	Correct	3	Device Interface C...	
Startup Config	Correct	3	Configuration Man...	

Score	Item Count
54/54	18/18

Component	Items/Total	Score
Configuration Management	2/2	6/6
Device Interface Configuration	16/16	48/48

Cisco Packet Tracer - D:\NMMMT\Lab 5b.pka

File Edit Options View Tools Extensions Help

Activity Results Time Elapsed: 00:18:47

Congratulations Guest! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Congratulations! You successfully completed the **Packet Tracer - Connect a Router to a LAN** activity. However, your final score may change based on your answers to the questions in the Instructions. Consult your instructor.

3. Task 3: Áp dụng chia địa chỉ IP

Cisco Packet Tracer - D:\NMMT\Lab 5\cpla

File Edit Options View Tools Extensions Help

Activity Results

Time Elapsed: 01:26:31

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				
PC4				
Default Gateway	Correct	2	Default Gateway ...	
Ports				
FastEthernet0				
IP Address	Correct	2	IPv4 Host Address...	
Subnet Mask	Correct	2	IPv4 Subnet Mask...	
R1				
Ports				
GigabitEthernet0/0				
IP Address	Correct	3	IPv4 Host Address...	
Port Status	Correct	1	Device Interface C...	
Subnet Mask	Correct	3	IPv4 Subnet Mask...	
GigabitEthernet0/1				
IP Address	Correct	3	IPv4 Host Address...	
Port Status	Correct	1	Device Interface C...	
Subnet Mask	Correct	3	IPv4 Subnet Mask...	
S3				
Default Gateway	Correct	3	Default Gateway ...	
Ports				
Vlan1				
IP Address	Correct	3	IPv4 Host Address...	
Port Status	Correct	1	Device Interface C...	
Subnet Mask	Correct	3	IPv4 Subnet Mask...	

Score : 30/30
Item Count : 13/13

Component	Items/Total	Score
Default Gateway Configuration	2/2	5/5
Device Interface Configuration	3/3	3/3
IPv4 Host Address Calculation	4/4	11/11
IPv4 Subnet Mask Calculation	4/4	11/11

Địa chỉ 192.168.100.0/24

-Có 5 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	192.168.100.200	192.168.100.201	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	Dafault Gateway
R1	G0/0	192.168.100.1	255.255.255.224	
	G0/1	192.168.100.33	255.255.255.224	
	S0/0/0	192.168.100.129	255.255.255.224	
R2	G0/0	192.168.100.65	255.255.255.224	
	G0/1	192.168.100.97	255.255.255.224	
	S0/0/0	192.168.100.158	255.255.255.224	
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