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BÁO CÁO LAB 5: CẤU HÌNH THIẾT BỊ MẠNG

Task 1.

1.6.

Cisco Packet Tracer - C:\Users\WELCOME\Downloads\File(Lab_5a_5b_5c.pka)\Lab 5a.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:04:27

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.

Cisco Packet Tracer - C:\Users\WELCOME\Downloads\File(Lab_5a_5b_5c.pka)\Lab 5a.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:05:12

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				
Authen Type	Correct	1	Wireless Client Configuration	
Pass Phrase	Correct	4	Wireless Client Configuration	
SSID	Correct	5	Wireless Client Configuration	
WRS2				
Default Gateway	Correct	10	Wireless Router Configuration	
DHCP Server				
DHCP Enable	Correct	10	Wireless Router Configuration	
Pools				
Pool linksysPool		0	Ip	
Default Gateway	Correct	10	Wireless Router Configuration	
Ports				
Internet				
IP Address	Correct	10	Wireless Router Configuration	
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 Configuration	
Pass Phrase	Correct	10	Wireless Router Configuration	
SSID	Correct	10	Wireless Router Configuration	
SSID BroadCast	Correct	10	Wireless Router Configuration	

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

Task 2.

2.2.

```
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
!
!
!
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
speed 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
Interface          IP-Address      OK? Method Status
Protocol
GigabitEthernet0/0 10.1.1.1        YES manual up
GigabitEthernet0/1 10.1.2.1        YES manual 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
D    10.0.0.0/8 is a summary, 00:04:34, 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, 00:06:52, Serial0/0/0
D    192.168.11.0/24 [90/2170112] via 209.165.200.225, 00:06:29, Serial0/0/0
209.165.200.0/24 is variably subnetted, 3 subnets, 3 masks
D    209.165.200.0/24 is a summary, 00:04:34, 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

```

2.3.

 Cisco Packet Tracer - C:\Users\WELCOME\Downloads\File(Lab_5a_5b_5c.pka)\Lab 5b.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:08:38

Congratulations 21520722! 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.

Cisco Packet Tracer - C:\Users\WELCOME\Downloads\File(Lab_5a_5b_5c.pka)\Lab 5b.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:08:56

Congratulations 21520722! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)
Network			
R1			
Ports			
GigabitEthernet0/0			
Description	Correct	3	Device Interface
IP Address	Correct	3	Device Interface
Port Status	Correct	3	Device Interface
Subnet Mask	Correct	3	Device Interface
GigabitEthernet0/1			
Description	Correct	3	Device Interface
IP Address	Correct	3	Device Interface
Port Status	Correct	3	Device Interface
Subnet Mask	Correct	3	Device Interface
Startup Config	Correct	3	Configuration M
R2			
Ports			
GigabitEthernet0/0			
Description	Correct	3	Device Interface
IP Address	Correct	3	Device Interface
Port Status	Correct	3	Device Interface
Subnet Mask	Correct	3	Device Interface
GigabitEthernet0/1			
Description	Correct	3	Device Interface
IP Address	Correct	3	Device Interface
Port Status	Correct	3	Device Interface
Subnet Mask	Correct	3	Device Interface
Startup Config	Correct	3	Configuration M

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

Score : 54/54
Item Count : 18/18

Task 3.

3.1.

Mỗi subnet có 25 host cần mượn 3 bit ở host id

Do đó ta có $2^3=8$ mạng con

STT	Địa chỉ mạng	Địa chỉ đầu	Địa chỉ cuối	Địa chỉ Broadcast
0	192.168.100.0/27	192.168.100.1	192.168.100.30	192.168.100.31
1	192.168.100.32/27	192.168.100.33	192.168.100.62	192.168.100.63
2	192.168.100.64/27	192.168.100.65	192.168.100.94	192.168.100.95
3	192.168.100.96/27	192.168.100.97	192.168.100.126	192.168.100.127
4	192.168.100.128/27	192.168.100.129	192.168.100.158	192.168.100.159
5	192.168.100.160/27	192.168.100.161	192.168.100.190	192.168.100.191

6	192.168.100.192/27	192.168.100.193	192.168.100.222	192.168.100.223
7	192.168.100.224/27	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

3.3.

Cisco Packet Tracer - C:\Users\WELCOME\Downloads\File(Lab_5a_5b_5c.pka)\Lab 5c.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:10:15

Congratulations 21520722! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Congratulations! You successfully completed the Packet Tracer - **Subnetting Scenario 1** activity. However, your final score may change based on your answers to the questions in the Instructions. Consult your instructor.

Cisco Packet Tracer - C:\Users\WELCOME\Downloads\File(Lab_5a_5b_5c.pka)\Lab 5c.pka

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:10:36

Congratulations 21520722! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)
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
✓ Subnet Mask	Correct	3	IPv4 Subnet Mask
GigabitEthernet0/1			
✓ IP Address	Correct	3	IPv4 Host Address
✓ Port Status	Correct	1	Device Interface
✓ 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
✓ Subnet Mask	Correct	3	IPv4 Subnet Mask

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

Score : 30/30
Item Count : 13/13