

Project PACKET TRACER



Student's ID	Name		
19120529	Nguyễn Phước Huy		
19120583	Lê Thái Bình Minh		

Table of contents

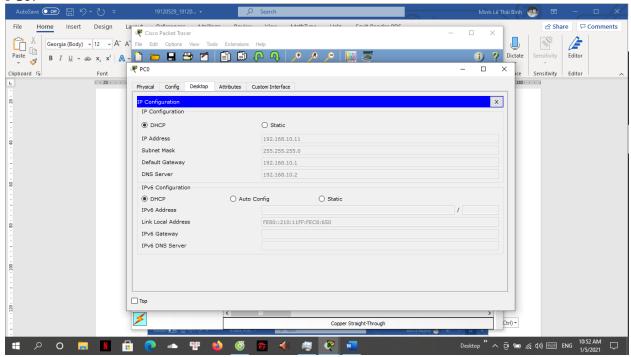
I/DHCP configuration on CISCO router:	3
1. IP Address:	4
2. IP Address:	
3. IP Address:	
II/Static routing implementation:	
1. Ping:	4
2. Routing Table:	
3. Static Route – AD – The metric of the static route:	7
III/ Implement the basic building network topology:	8
1. Fill Device Table:	8
2. Configure DNS server and Web server:	9
3. Configure static routing for all routers so that all subnets can talk to ea Configure DHCP server to assign IP addresses to PCs:	
4. Ping result:	12
5. Access web page:	13
VII/Link demo:	14
VIII/References:	14



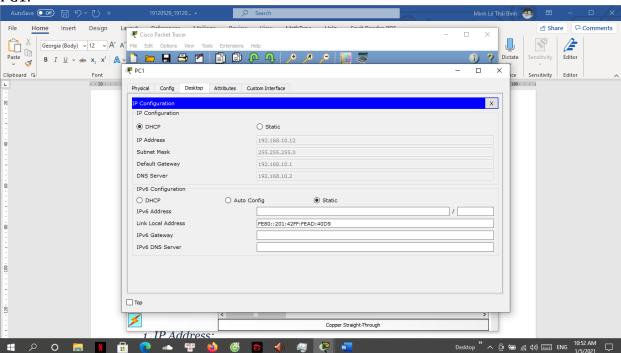
TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIỆN

I/DHCP configuration on CISCO router:

PC0:

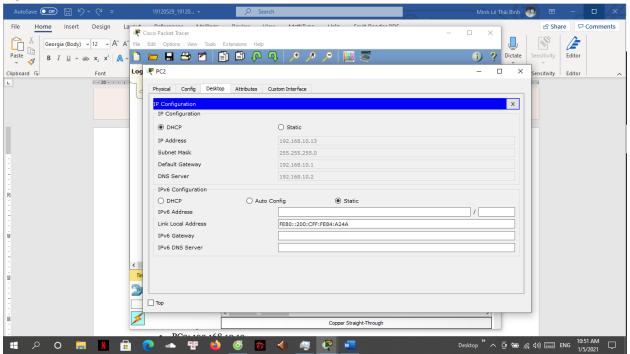


PC1:





ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỔ CHÍ MINH TRƯỜNG ĐAI HỌC KHOA HỌC TƯ NHIÊN



1. IP Address:

The IP Addresses which were acquired from DHCP of:

- PC0: 192.168.10.11
- PC1: 192.168.10.12
- PC2: 192.168.10.13

2. IP Address:

The Gateway Addresses of PC0, PC1, PC2 is: 192.168.10.1.

3. IP Address:

The DNS Server for PC0, PC1, PC2 is **192.168.10.2**.

II/Static routing implementation:

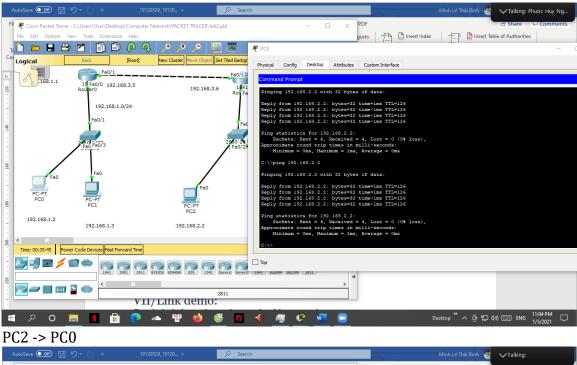
1. Ping:

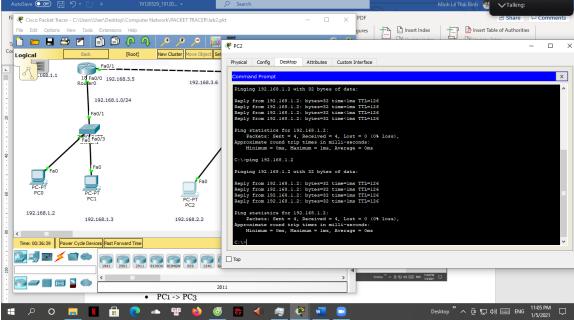
The ping result between:



ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỔ CHÍ MINH TRƯỜNG ĐAI HOC KHOA HOC TƯ NHIÊN

PC0 -> PC2

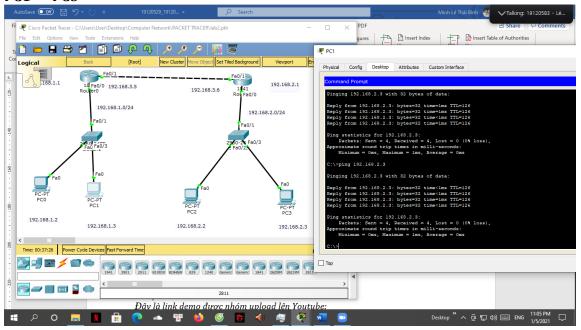




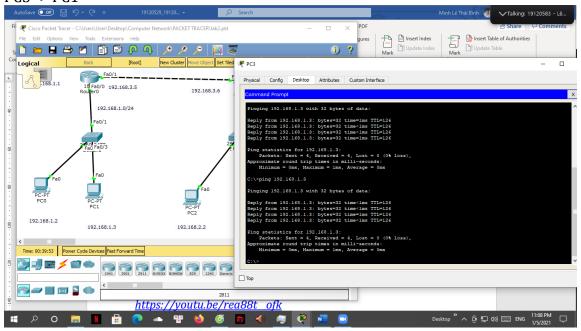


ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỔ CHÍ MINH TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIỀN

PC1 -> PC3

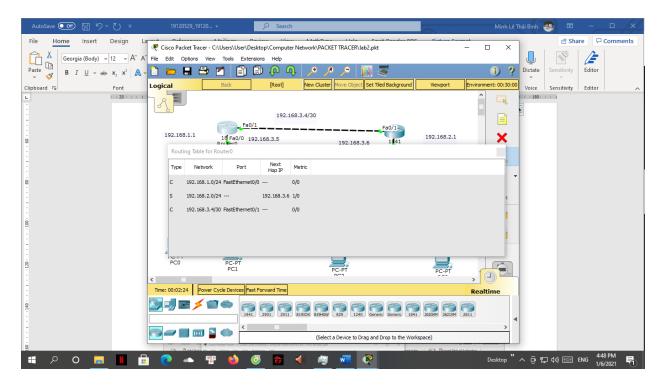


PC3 -> PC1



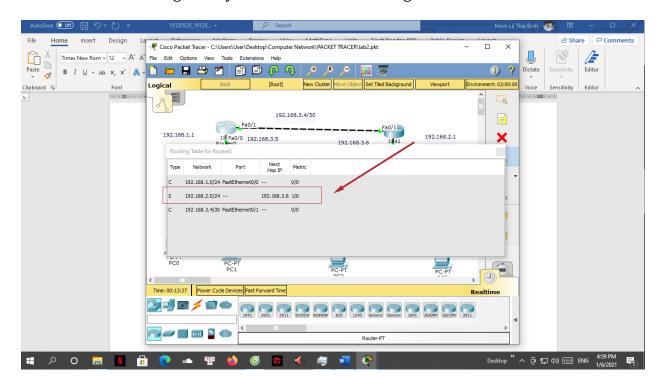
2. Routing Table:

The routing table of the router R0:

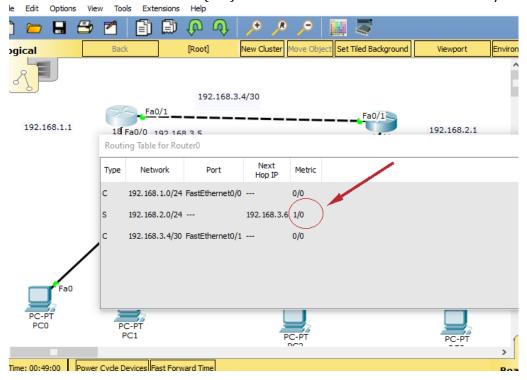


3. Static Route -AD – The metric of the static route:

The line which is configured by static route in the routing table of the router R0 is:

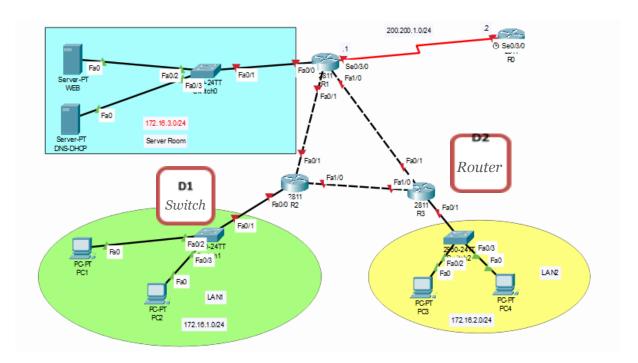


The administrative distance (AD) and the metric of the static route is: 1/0.



III/ Implement the basic building network topology:

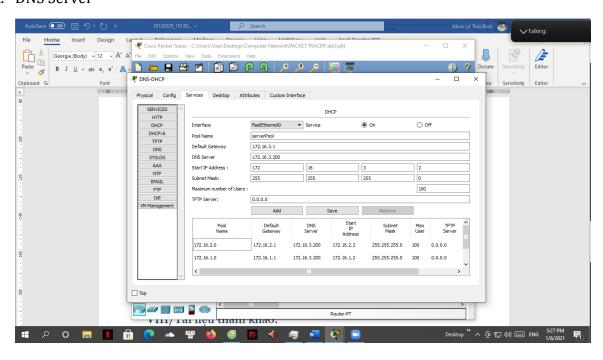
1. Fill Device Table:



Device Name	Interface	IP address	Device Type
R0	S0/3/0	200.200.1.2/24	Router
R1	F0/0	172.16.3.1/24	Router
	F0/1	192.168.1.1/30	
	F1/0	192.168.2.1/30	
	S0/3/0	200.200.1.1/24	
R2	F0/0	172.16.1.1/24	Router
	F0/1	192.168.1.2/30	
	F1/0	192.168.3.1/30	
D2	F0/1	192.168.2.2/30	Router
	F0/0	172.16.2.1/24	
	F1/0	192.168.3.2/30	
D1			Switch
WEB server		172.16.3.100	
DNS-DHCP server		172.16.3.200	
PC1			
PC2			
PC3			
PC4			

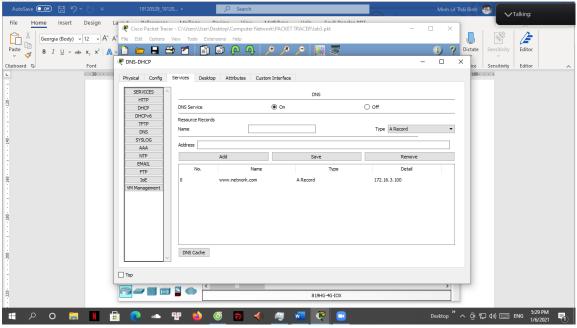
2. Configure DNS server and Web server:

A. DNS Server

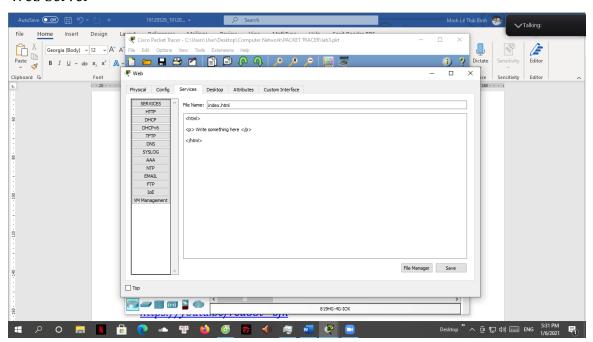




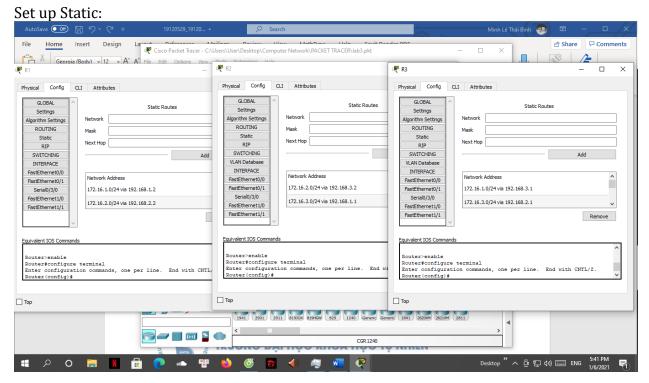
ĐẠI HỘC QUỐC GIA THÀNH PHỐ HỎ CHÍ MINH TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIỀN



B. Web Server



3. Configure static routing for all routers so that all subnets can talk to each other. Configure DHCP server to assign IP addresses to PCs:

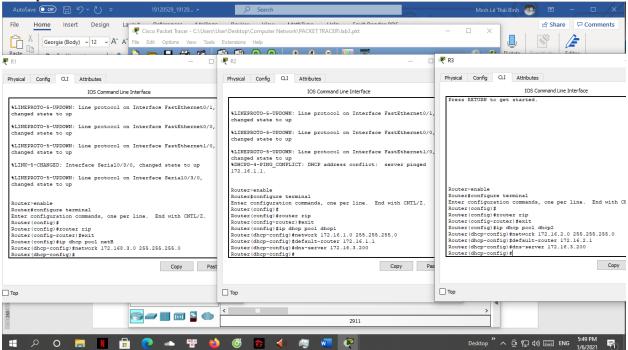


Set up RIP: File Home Insert Design La Georgia (Body) v 12 v A^ A File Edit Or **₽** R1 Physical Config CLI Attributes Physical Config CLI Attributes Physical Config CLI Attributes GLOBAL Settings Algorithm Settings Network Settings Algorithm Settine ROUTING ROUTING Network Address Network Addres Static Static 172, 16, 0, 0 172.16.0.0 172.16.0.0 RIP SWITCHING SWITCHING SWITCHING 192, 168, 1.0 192.168.2.0 VLAN Databa INTERFACE INTERFACE 192.168.3.0 INTERFACE 192.168.3.0 FastEthernet0/0 FastEthernet0/1 200.200.1.0 Serial0/3/0 FastEthernet0/1 FastEthernet0/1 Serial0/3/0 FastEthernet 1/0 FastEthernet 1/0 FastEthernet 1/1 FastEthernet 1/0 Remove FastEthernet 1/1 Equivalent IOS Comm Router>enable Router#configure terminal Router>enable Router#configure terminal Enter configuration comman Router(config)# Router(config)#router rip Router(configure terminal Enter configuration comma Router(config)# Router(config)#router rip Router(config-router)# Тор Птор 1941 2901 2911 81910X 8194GW 829 1240 Generic Generic 1841 2620004 2621004 2811 🥞 *--* 🔳 📾 🖺 🧆 2621XM へ 🖟 🖫 🕼 📟 ENG



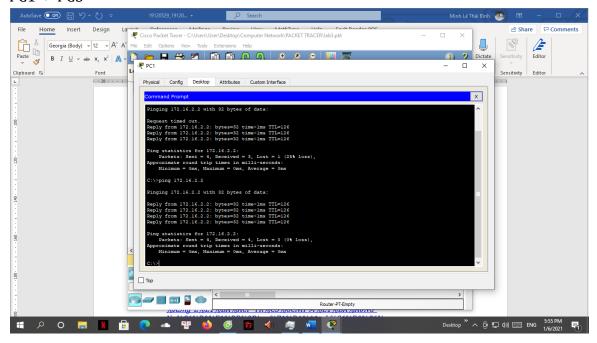
ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỔ CHÍ MINH TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIỀN

Set up DHCP:



4. Ping result:

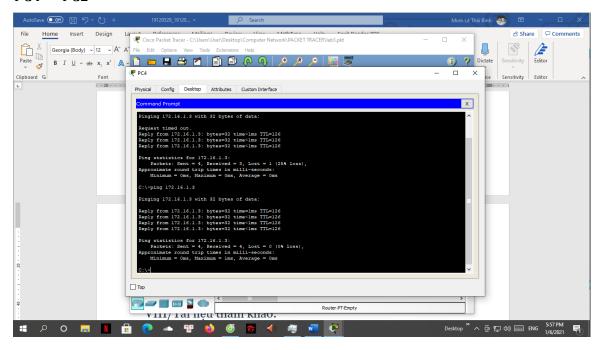
• PC1 -> PC3





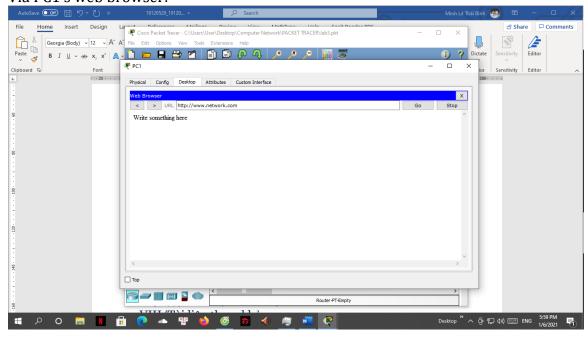
E TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIỀN

• PC4 -> PC2



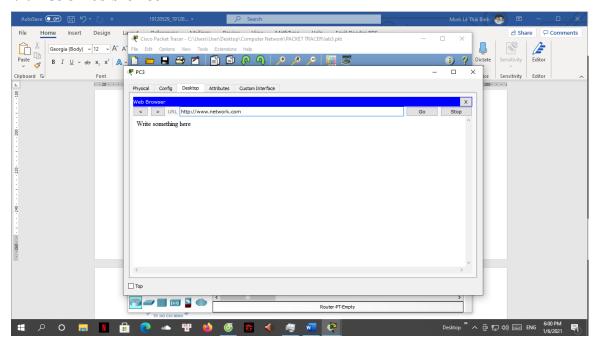
5. Access web page:

• Via PC1's web browser:





• Via PC3's web browser:



VII/Link demo:

This is Demo Video which is uploaded by us via Youtube:

https://youtu.be/agxGwjiQ1Ak

VIII/References:

During doing this project, we are referred from these documents:

- 1. The Packet Tracer's manuals and the documents provided on Moodle.
- 2. https://www.cisco.com/c/en/us/support/docs/ip/enhanced-interior-gateway-routing-protocol-eigrp/8651-21.html