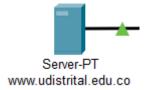
# Computer Networking Workshop No. 1 — Packet Tracer Basics



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Season 2024-III

1. Have be recognized by the name <u>www.udistrital.edu.co</u>.



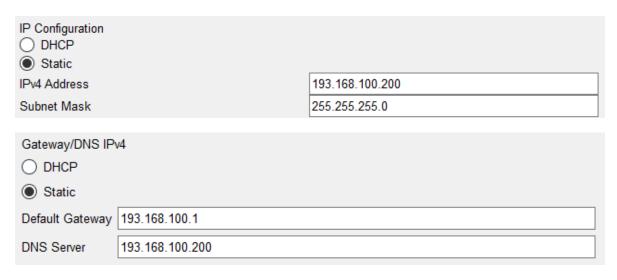
2. Have a public statis IP address, and a default gateway. In this sense, next values should be used:

• IPv4 Address: 193.168.100.200

• DNS Server: 193.168.100.200

• Default Gateway: 193.168.100.1

• Subnet Mask: 255.255.255.0



3. In HTTP services, delete all web pages but index.html. Edit this file and add a welcome message from the university (be creative, you could add a .css file if you want).



4. In DHCP services check the service is on and add a new pool with next values:

• Pool Name: UDPool

• Default Gateway: 193.168.100.200

• DNS Server: 193.168.100.200

• Start IP Address: 193.168.100.1

• Subnet Mask: 255.255.255.0

• Maximum Users: 50

			DHCP				
Interface FastEther		ernet0 ∨		Service  On		) Off	
Pool Name			UDP	UDPool			
Default Gateway				193.168.100.200			
DNS Server			193.1	193.168.100.200			
Start IP Address : 193				100	1		
Subnet Mask: 255 255		55		255	0		
Maximum Number of Users :				50			
TFTP Server:			0.0.0.	0.0.0.0			
WLC Address:			0.0.0.	0.0.0.0			
Add		Save		R	emove		

5. In DNS services, check the service is on and add a new rule with next values:

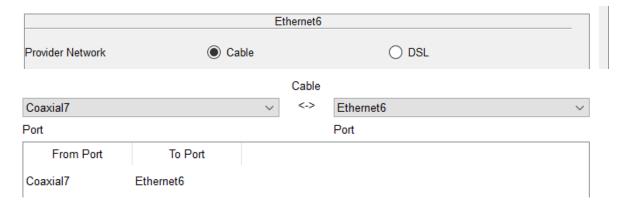
• Name: www.udistrital.edu.co

• Type: A Record

• Address: 193.168.100.200

			DNS			
DNS Service		On		Off		
Resource Reco	ords					
Name				Type A Record V		
Address						
	Add		Save	Remove		
No.	Name		Туре	Detail		
0	www.udistrital.edu.co	o ,	A Record	193.168.100.200		

6. You need to connect your server to the cloud. So, using a Cloud-PT called Internet using the Ethernet6 in Cable mode, to the FastEthernet0/0 of the server. Here it is important you relate into the Internet the cable relation from Coaxial7 to Ethernet6.

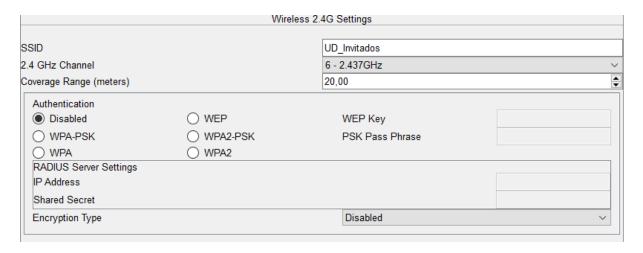




7. You need to connect a Cable-Modem-PT to the Internet. So, using a Cable-Modem-PT called ISP using the Port0 to the Coaxial7 of the internet.



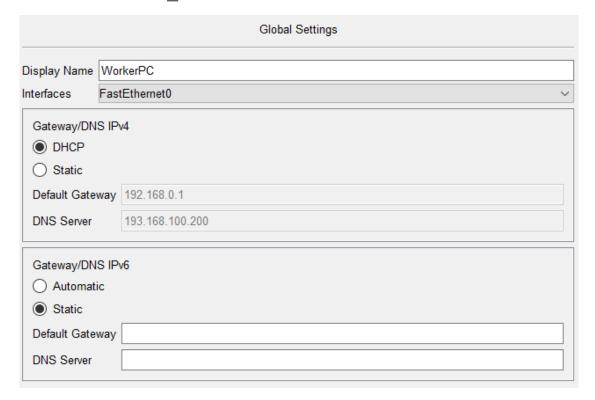
- 8. As you want to test any student could reach the university website, it is neccessary to run some tests since your home. So, you contact the ISP and ask for a internet service at home. They give you a wireless router called HomeRouter with the following values:
  - IPv4 LAN Address: 192.168.0.1
  - LAN Subnet Mask: 255.255.255.0
  - Wireless SSID: UD\_Invitados
  - Coverage Range (meters): 20 You need to connect the HomeRouter to the ISP.



- 9. At home, you have a PC-PT called WorkerPC with the following values:
  - IPv4 Address: DHCP 6.

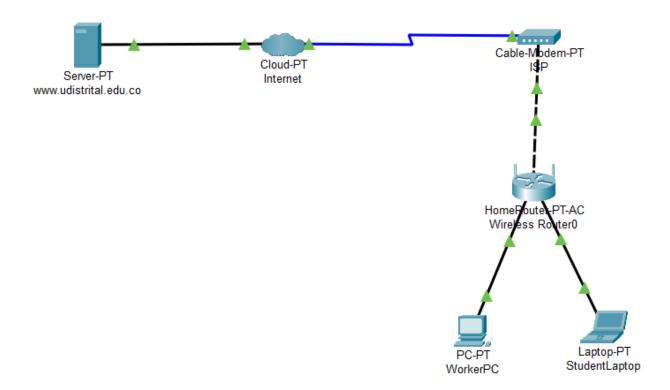
Also, you have a Laptop-PT called StudentLaptop with the following values:

• IPv4 Address: DHCP • Wireless Network: UD Invitados



To test the network, you need to access to a web browser in the StudentLaptop and type the URL www.udistrital.edu.co. Same test should be done in the WorkerPC. The result should be the university home page you created into the server.

## **Topology**



#### **Technical Decisions**

The significant change to the workshop step-by-step was the creation of index.css and the use of images within the html for visual enhancement.

### **Results**

