NAME: TOOBA SHEHZAD

ID: 212121

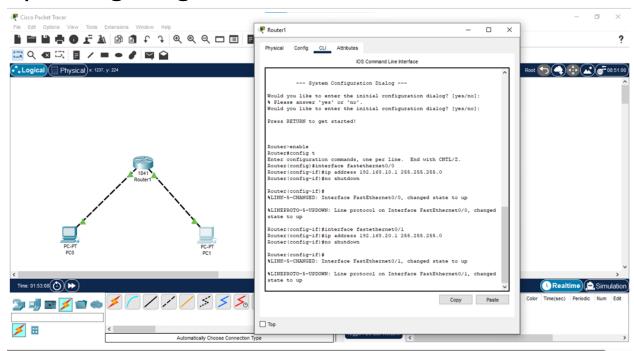
CLASS: BSIT-V

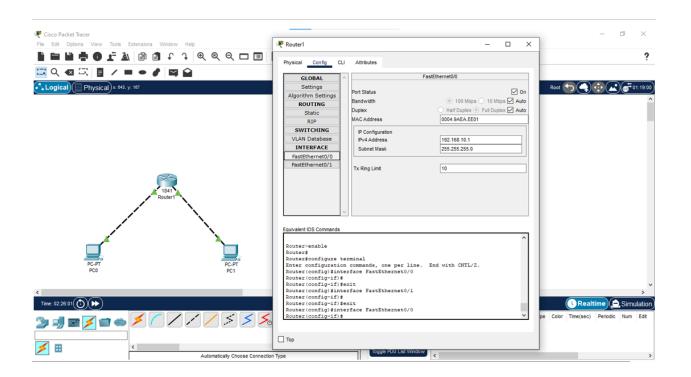
SECTION: 'A'

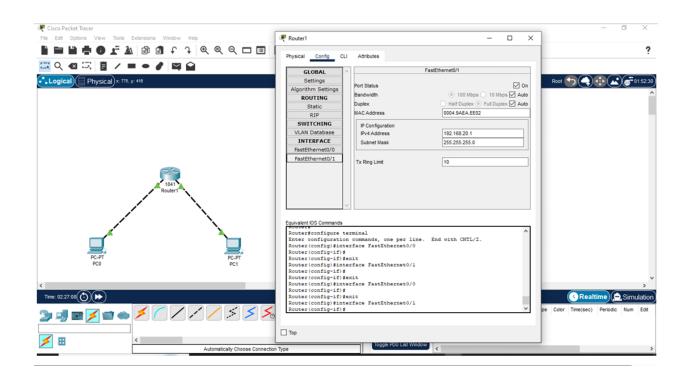
ASSIGNMENT # 2

Cisco Router: use packet tracer

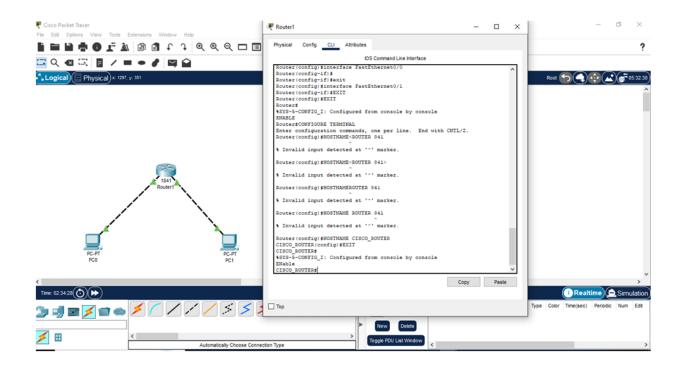
A) Configuring IP addresses of an Interface

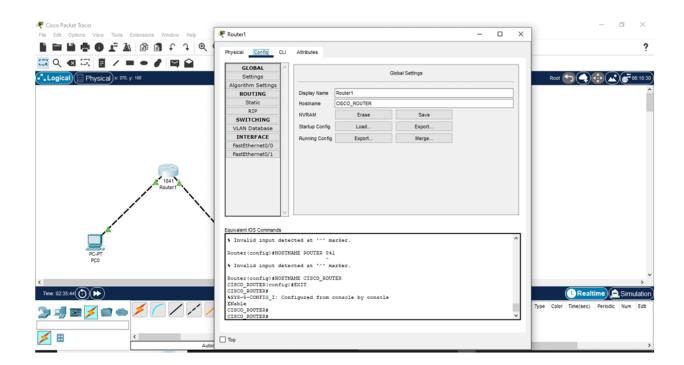




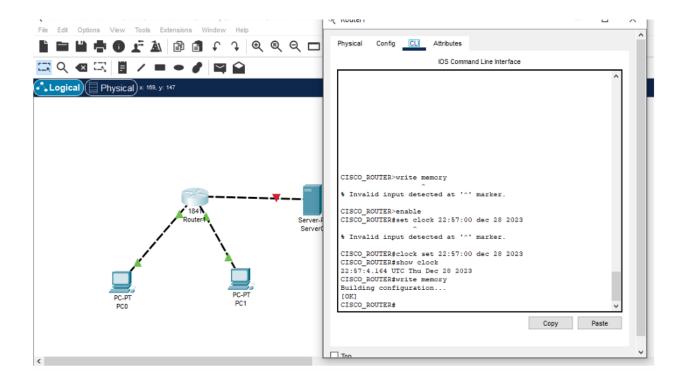


B) Changing the Device name

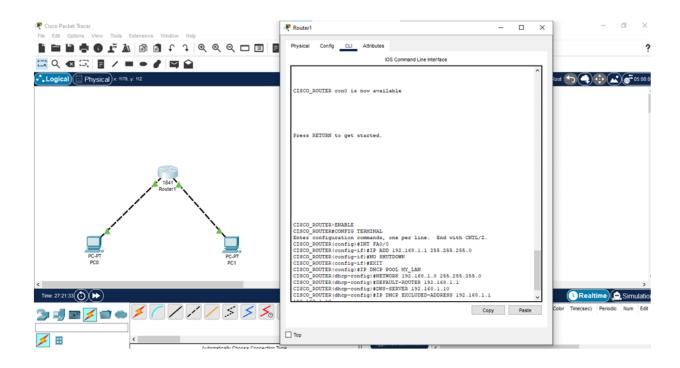


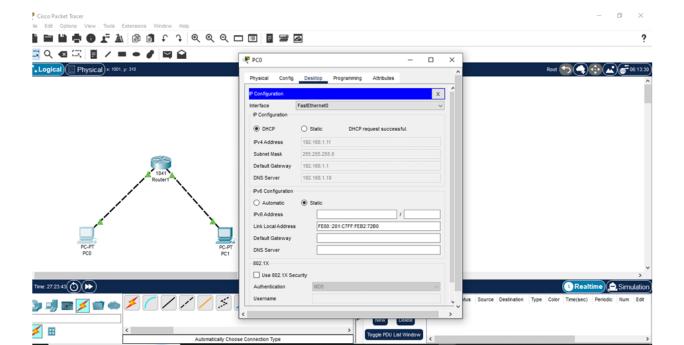


C) Setting the time of the device

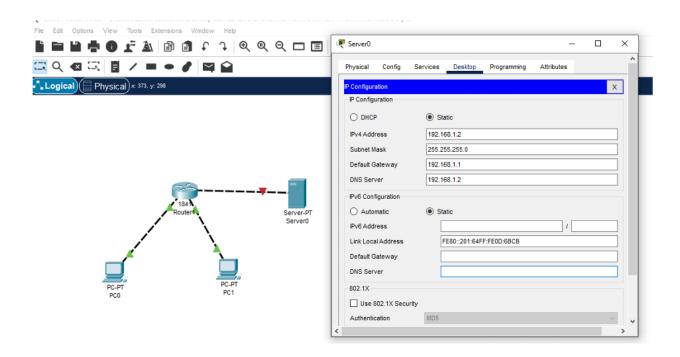


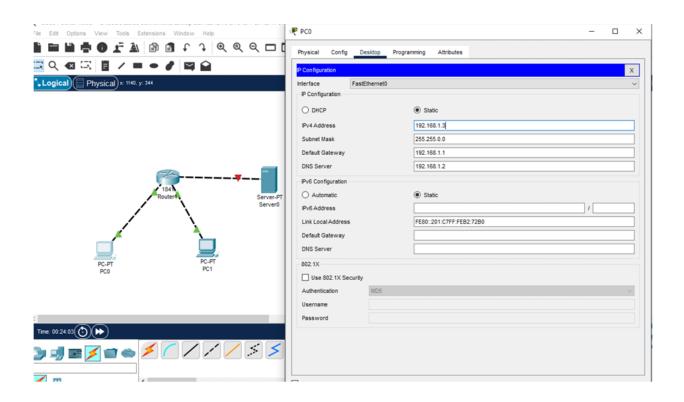
D) Configuring a DHCP Server

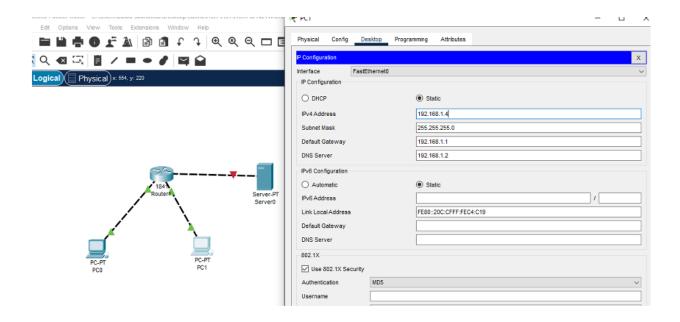


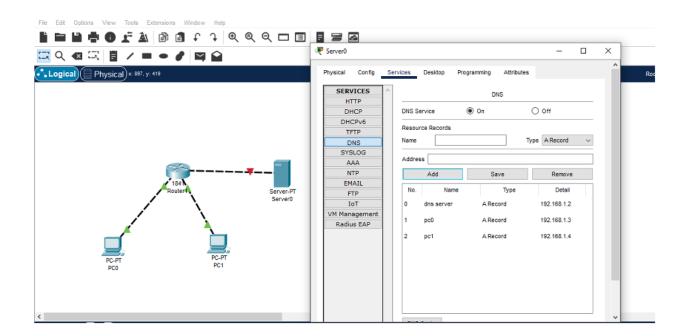


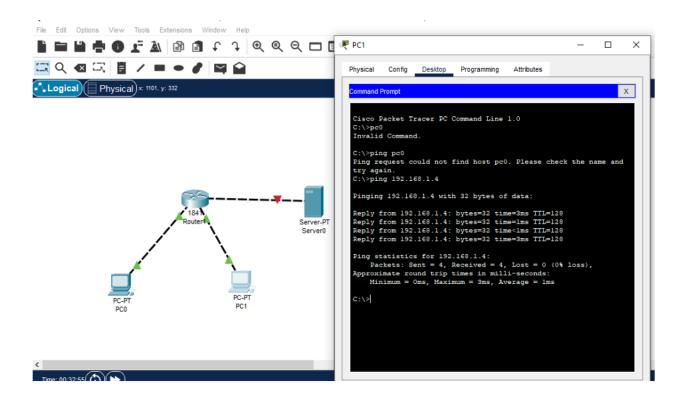
E) Configuring a DNS Server





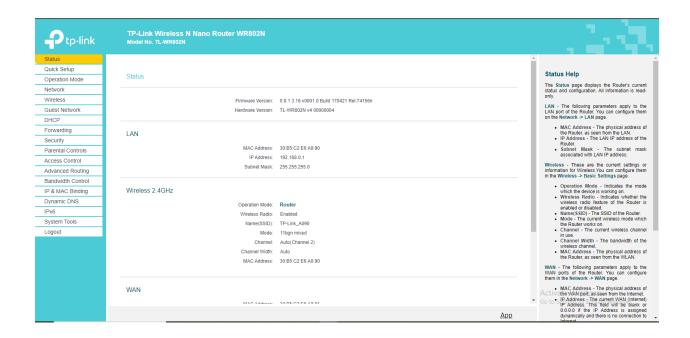






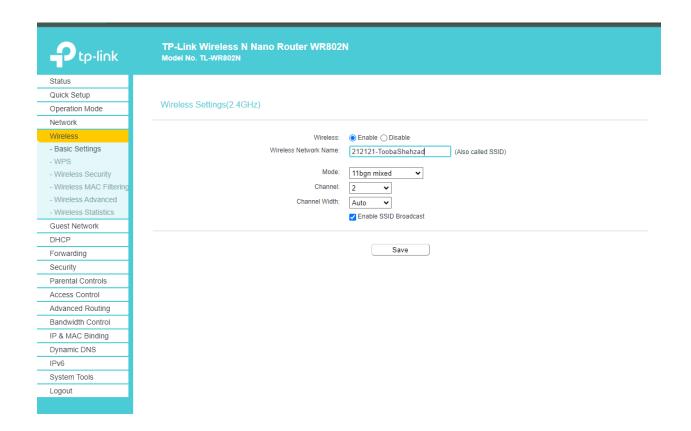
Tplink: Use the TP link emulator

A) Configuring IP addresses of an Interface

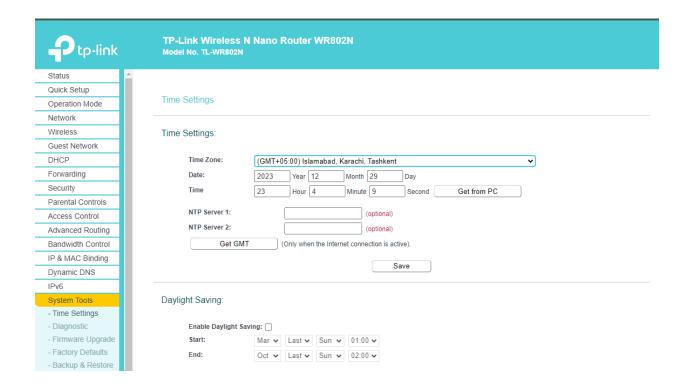


₽ tp-link	TP-Link Wireless N Nano Router WR802N Model No. TL-WR802N	ч
Status		
Quick Setup		
Operation Mode	WAN Settings	
Network		
- WAN		
- LAN	Connection Type:	Static IP • Detect
- MAC Clone	IP Address:	192.168.1.40
Wireless	Subnet Mask:	255.255.255.0
Guest Network		
DHCP	Gateway:	192.168.0.1
Forwarding	Primary DNS Server:	8.8.8.8
Security	Secondary DNS Server:	0.0.0.0 (optional)
Parental Controls		
Access Control		□ 関す ▲
Advanced Routing		
Bandwidth Control	Save	
IP & MAC Binding		
Dynamic DNS		
IPv6		
System Tools		
Logout		

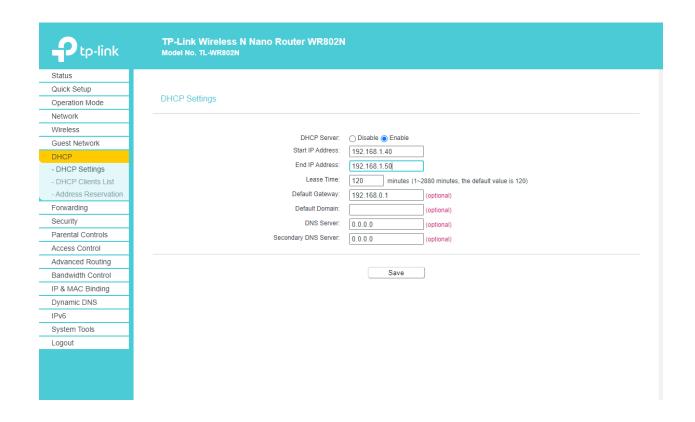
B) Changing the Device name



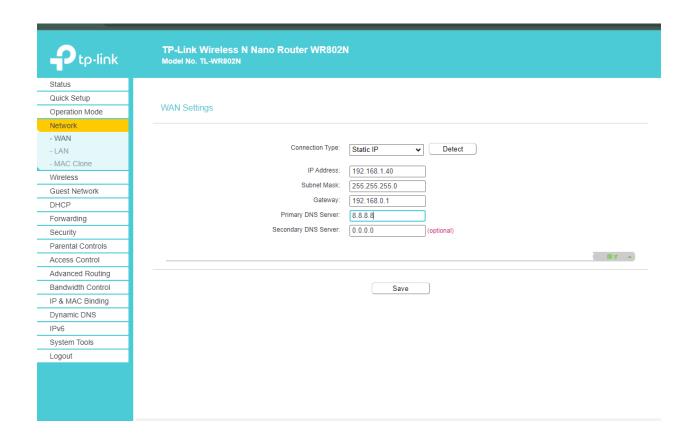
C) Setting the time of the device



D) Configuring a DHCP Server



E) Configuring a DNS Server

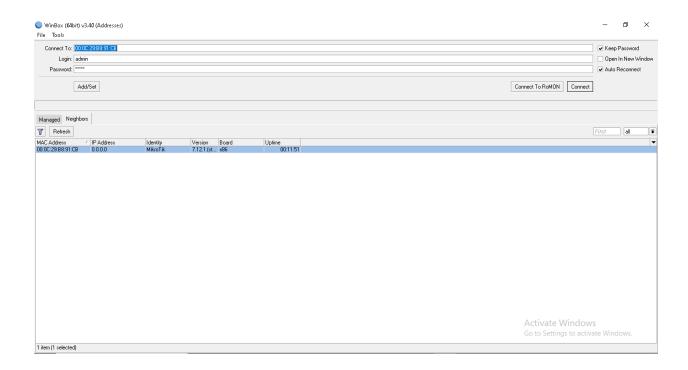


Mikrotik: Use the RouterOS in virtualization

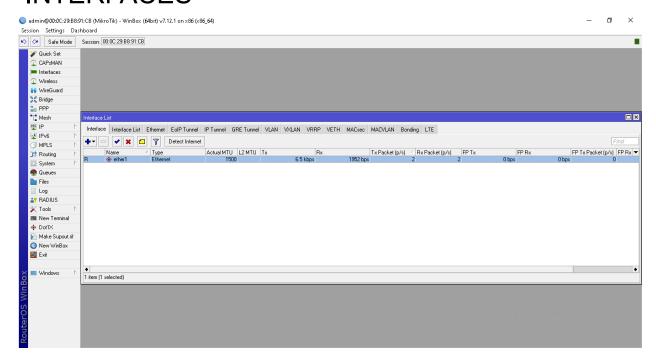
A) Configuring IP addresses of an Interface

Open WinBox

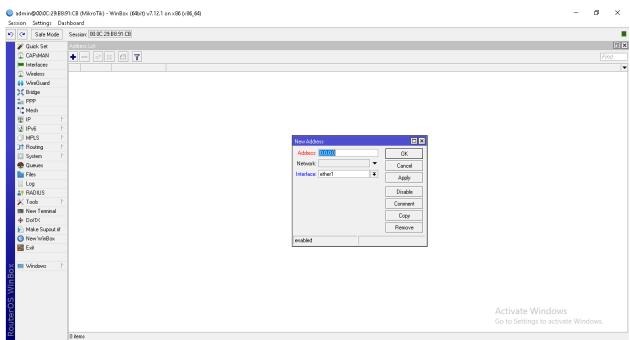
Enter your username and password then click on the "Connect" button.



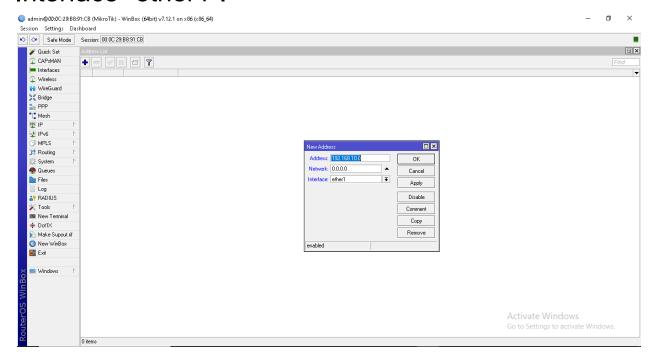
On the left hand side of WinBox Window, Click on "INTERFACES"



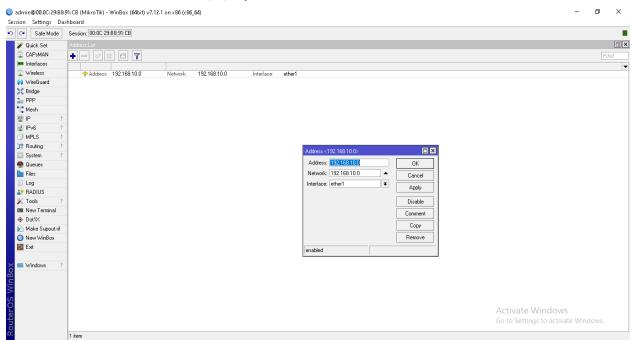
For Configuring the IP address, Click on IP, expand it, Then Click on Address



You can Set Up a new IP address and Choose the Interface "ether1".

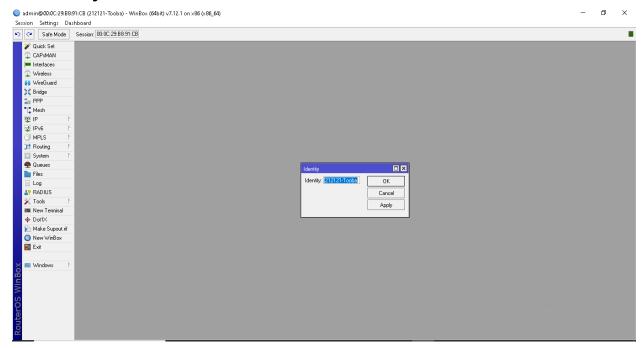


Then Click On "Apply" and then "OK".



B) Changing the Device name

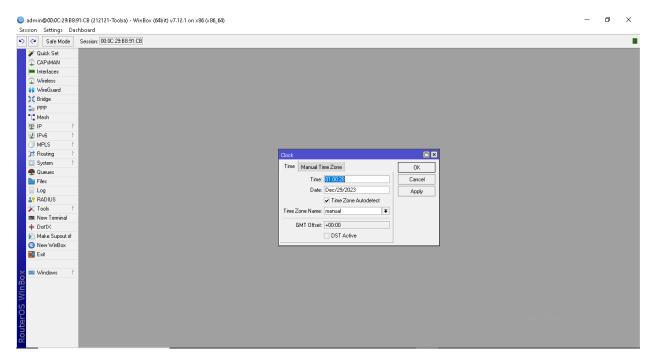
Go to "System", expand the tab, then Click on "Identity".



After setting up identity, Click on "Apply", then Click on "OK".

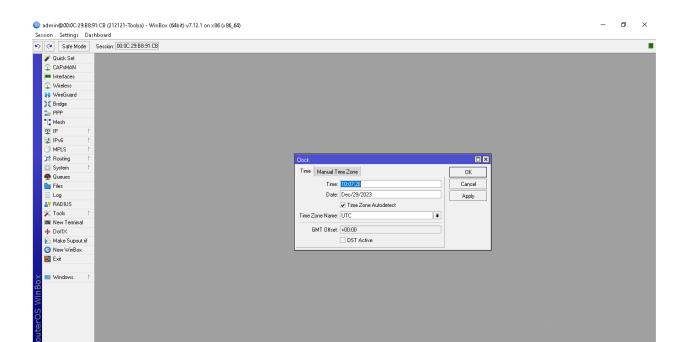
C) Setting the time of the device

Go to "System", expand tab, choose "Clock"



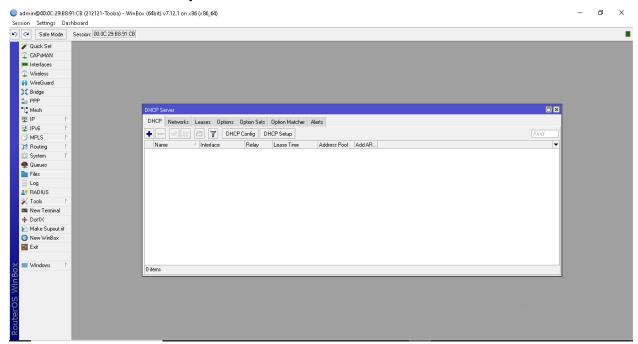
It is a system Default Time and Date

You can set it manually, Click on "Time", Add new, then Click on "Apply" and then "OK".

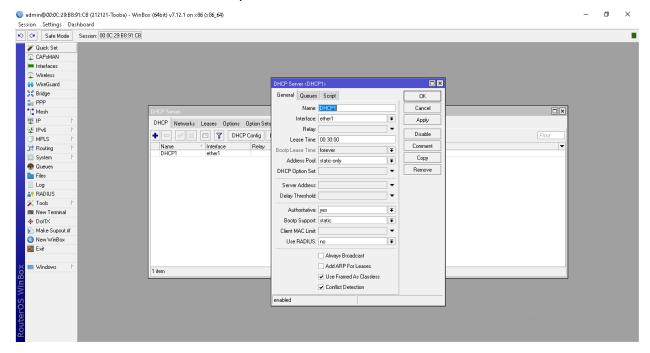


D) Configuring a DHCP Server

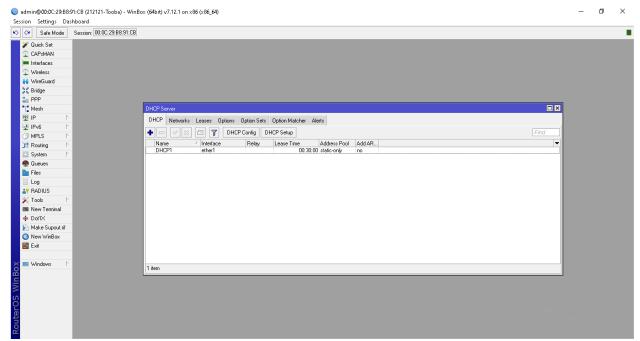
Click on "IP", expand tab, Click on DHCP Server".



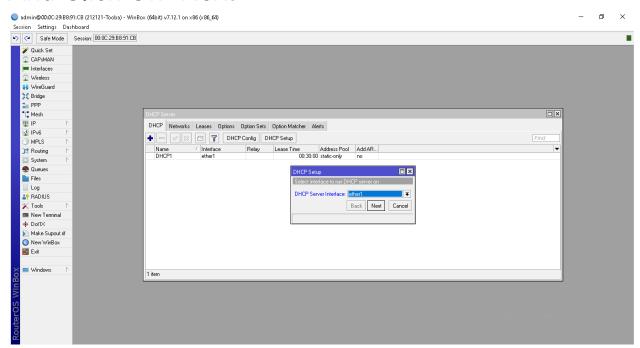
Click on "+" button, Enter name for DHCP server.

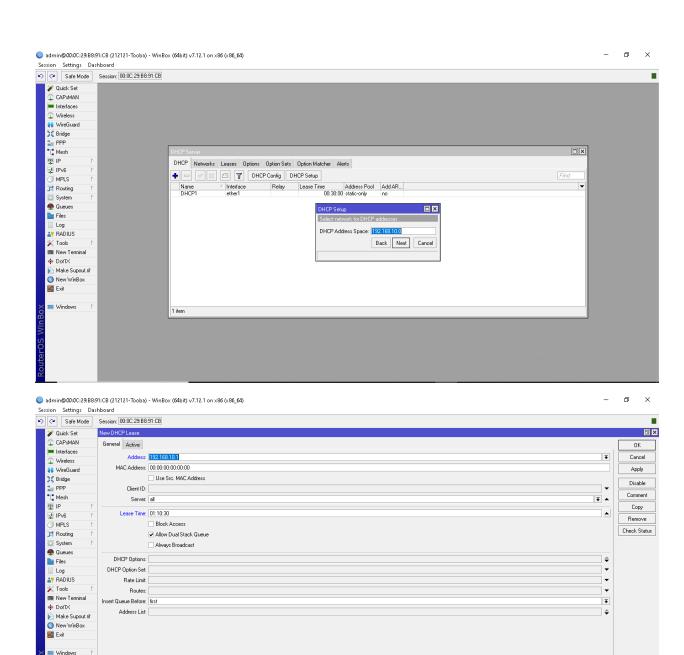


Then Click on "Apply"then "OK".

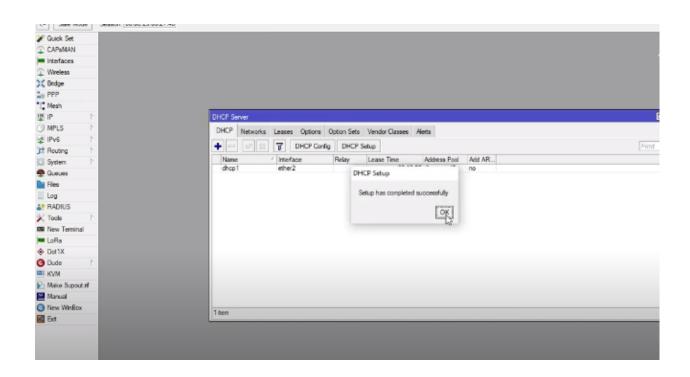


On DHCP server window, Click on "DHCP Setup" And Click On "Next"



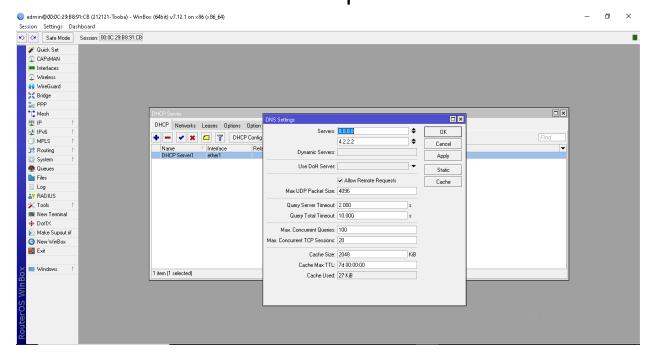


Go to Settings to activate Windows



E) Configuring a DNS Server

Click On the "IP" expand tab, then Click on "DNS". Here i am using the Google DNS server IP Click On "Allow Remote Requests".

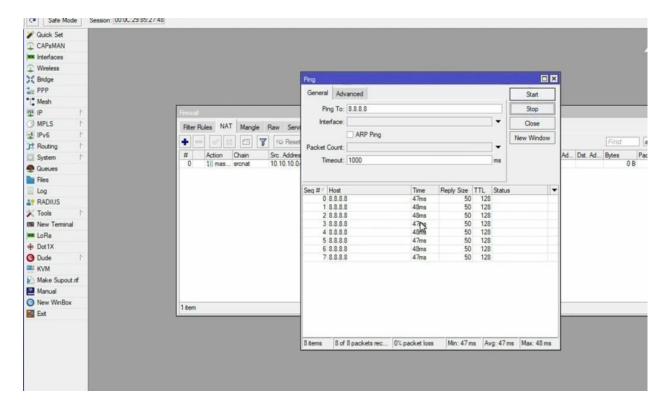


Then Click on "Apply"then "OK".

Now your MikroTik Router is a DNS Server.

Set up the firewall for blocking incoming DNS requests from the internet.

No go to "Tools" expand tab, Click On "Ping" Enter Google DNS server IP then Click on "Start".



It will start pinging.