2025

MIKROTIK

BASIC CONFIGURATION

SUBASH SUBEDI

1. Bridge Port Configuration

Step 1: Select "**Bridge**" On that, you will find the "**Bridge**" option.

Step 2: Click on the "**add**" symbol "+".

Step 3: In "**Name**" if you want to change the name, then change; otherwise, leave it.

Step 4: Now we will not change anything; select "**Apply**" & "**OK**"

Step 5: Select "**Bridge**" On that you will find the "**Ports**" option.

Step 6: Click on the "**add**" symbol "+".

Step 7: In "**Interface**" select the "**ethernet**" port, & In "Bridge" select the name of bridge In step 3, you have create.

Step 8: Select "**Apply**" & "**OK**" Same process step for other Ethernet port also.

CMD

```
/interface bridge add name=[Name of bridge port]
interface bridge port add bridge=[Name of bridge port] interface=ether[ether port]
interface bridge port print brief
```

EXAMPLE

```
interface bridge add name=bridge1
interface bridge port add bridge=bridge1 interface=ether2
interface bridge port add bridge=bridge1 interface=ether3
interface bridge port add bridge=bridge1 interface=ether4
```

```
interface bridge port add bridge=bridge1 interface=ether5

interface bridge port add bridge=bridge1 interface=ether6

interface bridge port add bridge=bridge1 interface=ether7

interface bridge port add bridge=bridge1 interface=ether8

 interface bridge port add bridge=bridge1 interface=ether9

interface bridge port print brief
```

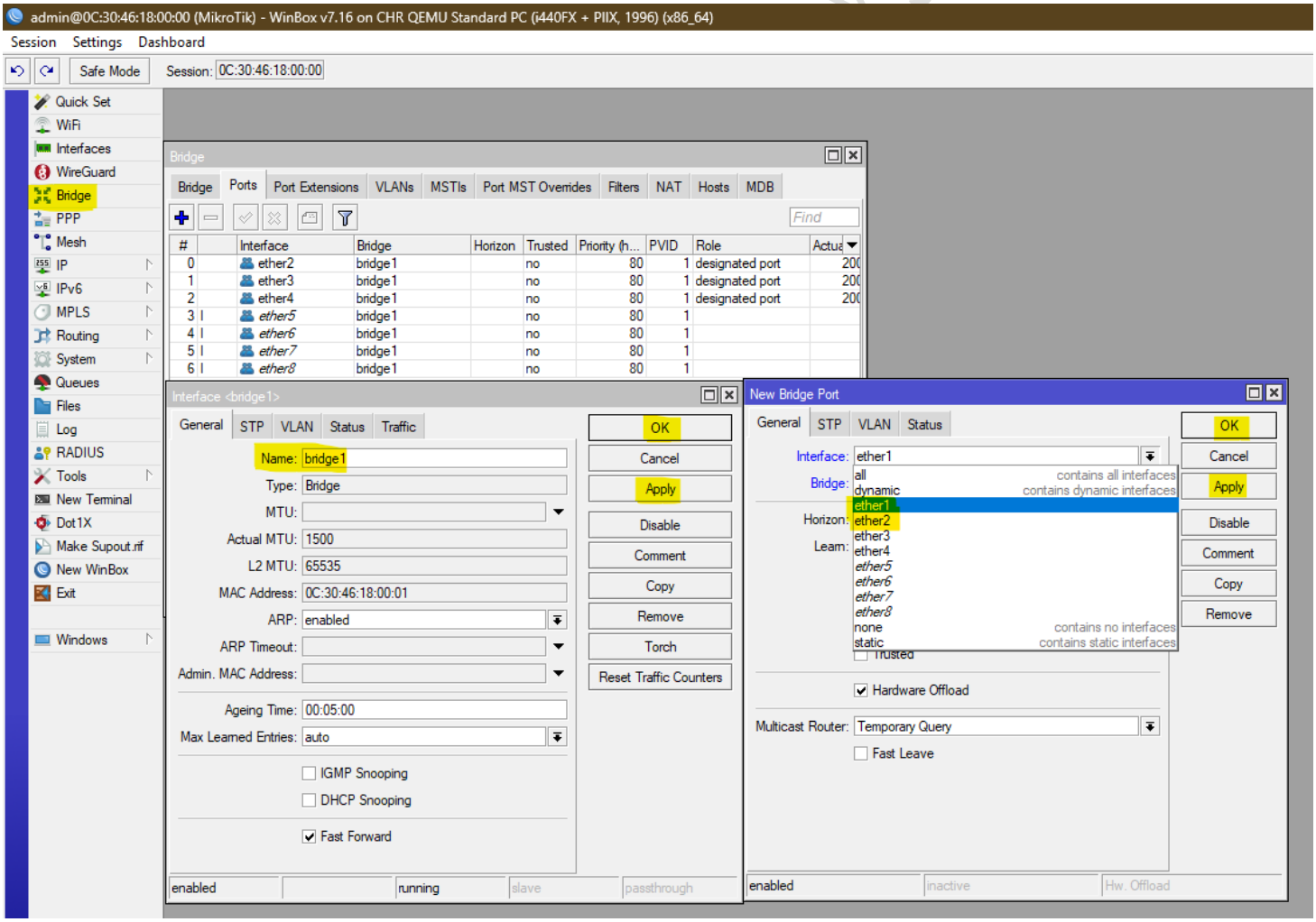

Figure 1

2. IP Address Assign

Step 1: Select "**IP**" On that you will find the "**Addresses**" option.

Step 2: Click on the "**add**" symbol "+".

Step 3: In "**Address**" enter the public IP & In "**Network**" enter the gateways of that IP.

Step 4: In "**Interface**" select which interface you want to assign.

Step 5: Select "**Apply**" & "**OK**".

Step 2: Click on the "**add**" symbol "+".

Step 6: In "**Address**" enter the local IP & In "**Network**" enter the gateways of that IP.

Step 7: In "**Interface**" select which interface you want to assign. For now, name of bridge

Step 8: Select "**Apply**" & "**OK**"

CMD

```
ip address/

add address=[Public Ip ] interface=[name of ethernet]

add address=[local ip range] interface=[name of bridge interface]
```

EXAMPLE

```
ip address/

add address=10.10.69.50/24 interface=ether1

add address=192.168.1.1/24 interface=ether1
```

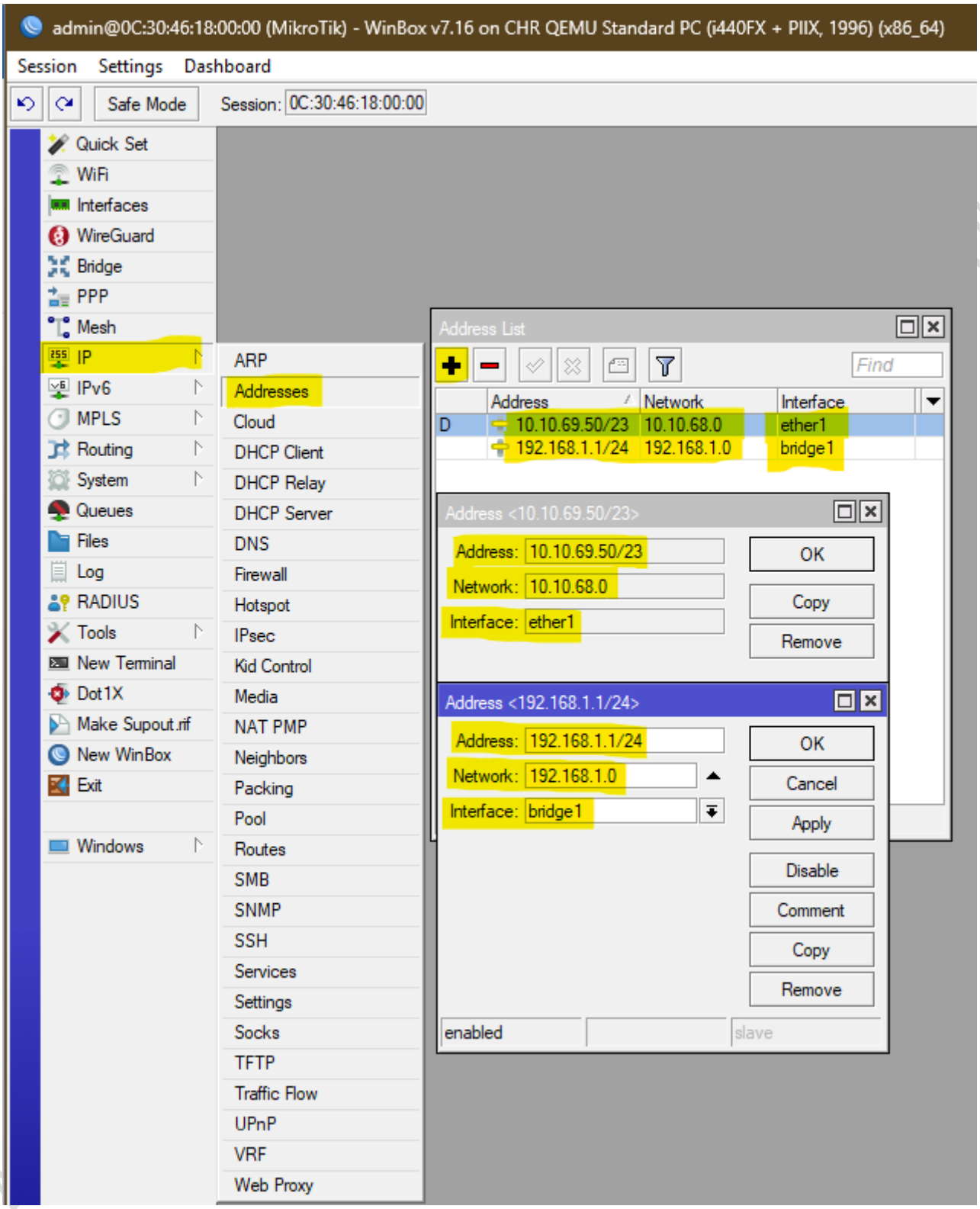
admin@0C:30:46:18:00:00 (MikroTik) - WinBox v7.16 on CHR QEMU Standard PC (i440FX + PIIX, 1996) (x86_64)
Session Settings Dashboard
Safe Mode
Session: 0C:30:46:18:00:00
Quick Set
WiFi
Interfaces
WireGuard
Bridge
PPP
Mesh
IP
IPv6
MPLS
Routing
System
Queues
Files
Log
RADIUS
Tools
New Terminal
Dot1X
Make Supout.rif
New WinBox
Exit
Windows
ARP
Addresses
Cloud
DHCP Client
DHCP Relay
DHCP Server
DNS
Firewall
Hotspot
IPsec
Kid Control
Media
NAT PMP
Neighbors
Packing
Pool
Routes
SMB
SNMP
SSH
Services
Settings
Socks
TFTP
Traffic Flow
UPnP
VRF
Web Proxy
Address List
Find
Address
Network
Interface
D
10.10.69.50/23
10.10.68.0
ether1
192.168.1.1/24
192.168.1.0
bridge1
Address <10.10.69.50/23>
Address: 10.10.69.50/23
Network: 10.10.68.0
Interface: ether1
OK
Copy
Remove
Address <192.168.1.1/24>
Address: 192.168.1.1/24
Network: 192.168.1.0
Interface: bridge1
OK
Cancel
Apply
Disable
Comment
Copy
Remove
enabled
slave

Figure 2

3. DNS Assign

Step 1: Select "**IP**" On that you will find the "**DNS**" option.

Step 2: In "**Servers**" enter the DNS of your ISP.

Step 3: Select "**Apply**" & "**OK**"

CMD

```
ip dns/

set servers=[Enter your ISP DNS]
```

Example

```
ip dns/

set servers=8.8.8.8
```

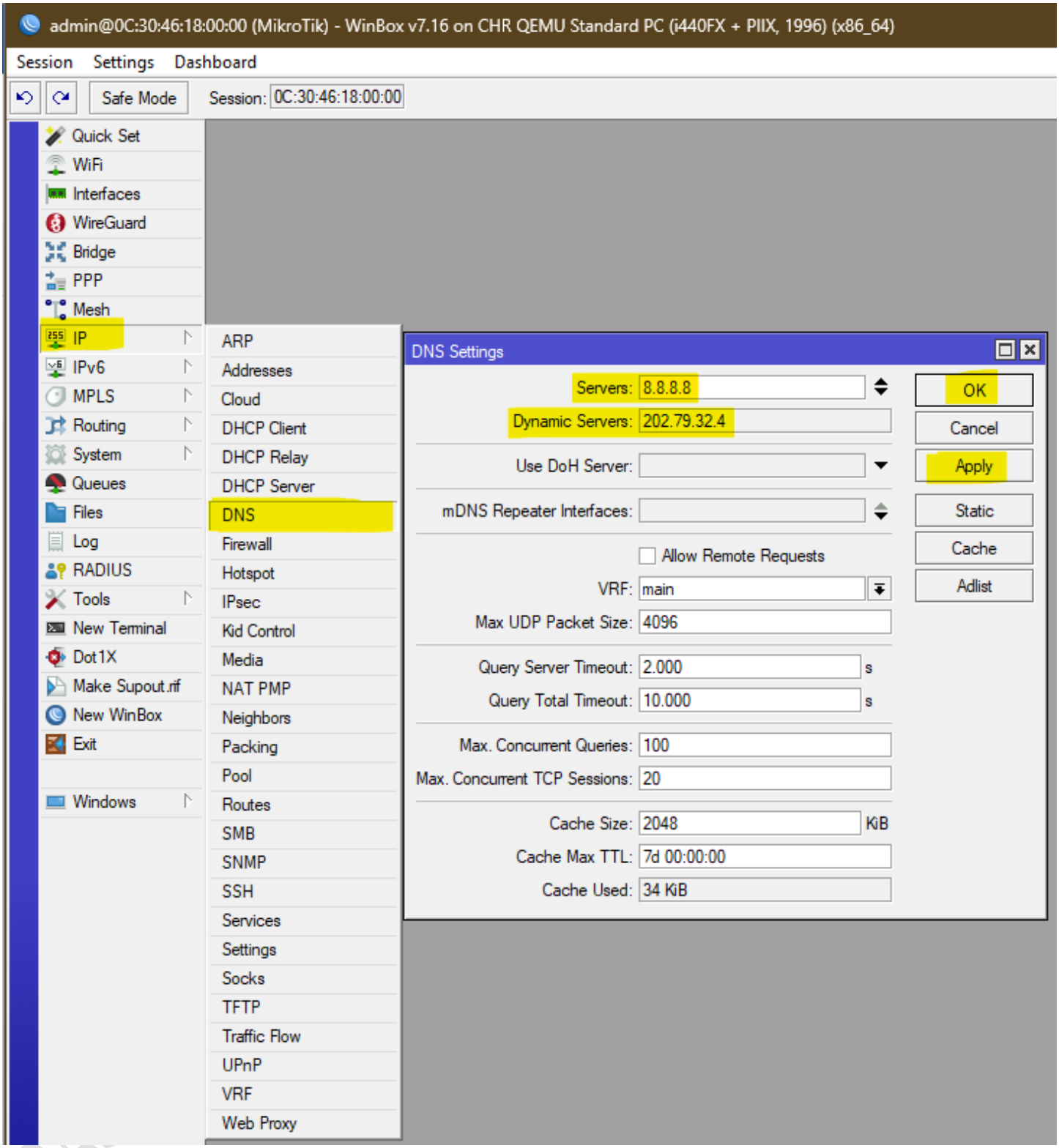
admin@0C:30:46:18:00:00 (MikroTik) - WinBox v7.16 on CHR QEMU Standard PC (i440FX + PIIX, 1996) (x86_64)
Session Settings Dashboard
Safe Mode
Session: 0C:30:46:18:00:00
Quick Set
WiFi
Interfaces
WireGuard
Bridge
PPP
Mesh
IP
IPv6
MPLS
Routing
System
Queues
Files
Log
RADIUS
Tools
New Terminal
Dot1X
Make Supout.rif
New WinBox
Exit
Windows
ARP
Addresses
Cloud
DHCP Client
DHCP Relay
DHCP Server
DNS
Firewall
Hotspot
IPsec
Kid Control
Media
NAT PMP
Neighbors
Packing
Pool
Routes
SMB
SNMP
SSH
Services
Settings
Socks
TFTP
Traffic Flow
UPnP
VRF
Web Proxy
DNS Settings
Servers: 8.8.8.8
Dynamic Servers: 202.79.32.4
Use DoH Server:
mDNS Repeater Interfaces:
Allow Remote Requests
VRF: main
Max UDP Packet Size: 4096
Query Server Timeout: 2.000 s
Query Total Timeout: 10.000 s
Max. Concurrent Queries: 100
Max. Concurrent TCP Sessions: 20
Cache Size: 2048 KiB
Cache Max TTL: 7d 00:00:00
Cache Used: 34 KiB
OK
Cancel
Apply
Static
Cache
Adlist

Figure 3

4. DHCP Configuration

Step 1: Select "**IP**" On that you will find the "**DHCP SERVER**" option.

Step 2: In "**DHCP**" there you will find "**DHCP Setup**" Click on that option. Then a popup setup will come.

Step 3: In "**DHCP Server Interface**" Select the bridge name in 1 you have created and "**Next**".

Step 4: In "**DHCP Address Space**" insert the local IP and their subnet as required, or it will come automatically and "**Next**".

Step 5: In "**Gateway for DHCP Network**" provide the local IP gateways, or it will come automatically and "**Next**".

Step 6: In the "**Addresses to Give Out**" range of IP addresses, or it will come automatically and "**Next**".

Step 7: In "**DNS Servers**" enter the ISP DNS that we have given Google for now; it will come automatically and "**Next**".

Step 8: In "**Lease Time**" set as default and click "**Next**"

CMD

ip pool add name=[Name of DHCP Pool] ranges=[Range of local ip]

ip dhcp-server add name=[Name of dhcp server] interface=[Assign Interface] address-pool=[Name of DHCP Pool] disabled=no

ip dhcp-server network add address=[Local Ip Address with subnet] gateway=[gateway of local IP] dns-server=[DNS of ISP]

ip dhcp-server enable [Name of dhcp server]

EXAMPLE

ip pool add name=dhcp_pool ranges=192.168.1.2-192.168.1.254

ip dhcp-server add name=dhcp1 interface=bridge1 address-pool=dhcp_pool disabled=no

ip dhcp-server network add address=192.168.1.0/24 gateway=192.1.68.1.1 dns-server=8.8.8.8,8.8.4.4

ip dhcp-server enable dhcp1

ip dhcp-server/print

ip dhcp-server lease print

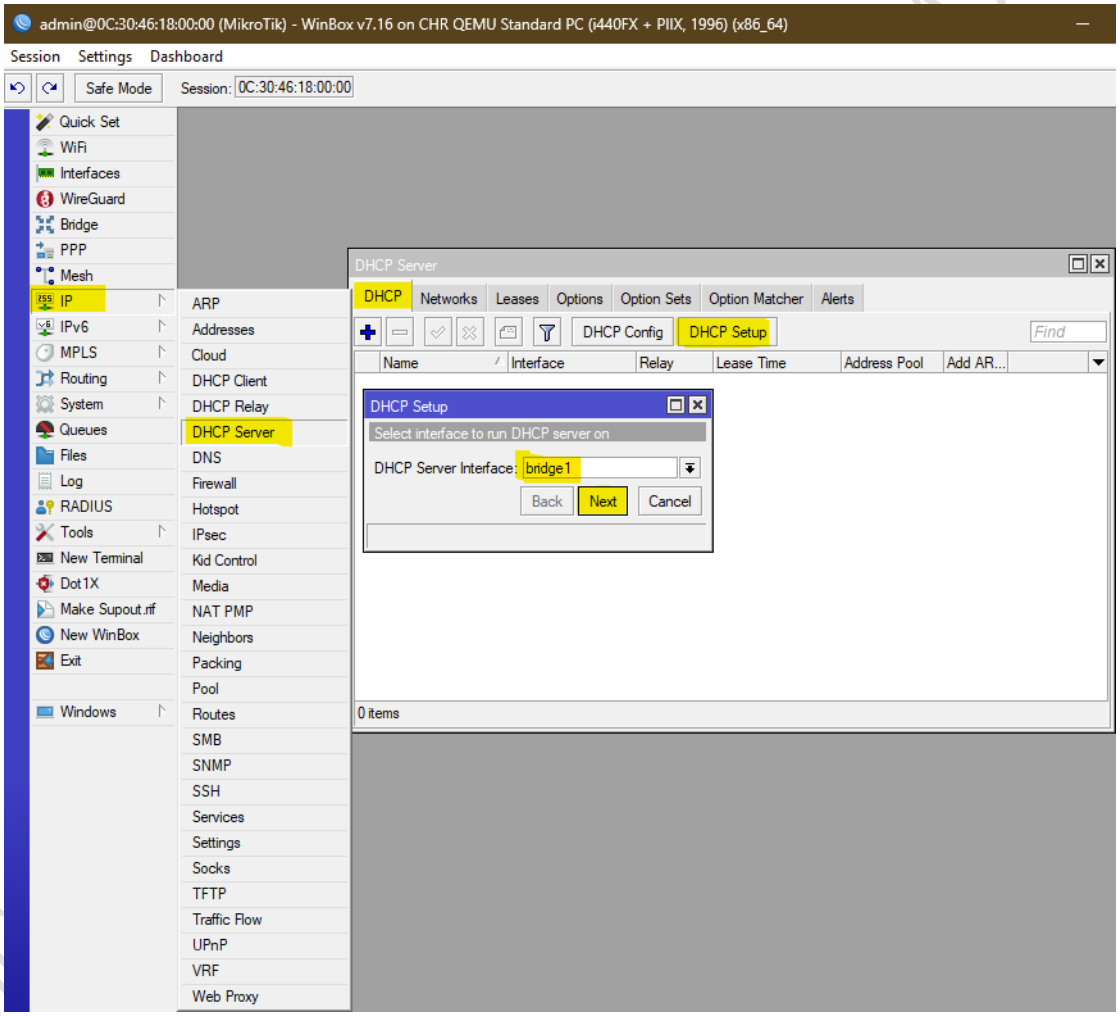

Figure 4

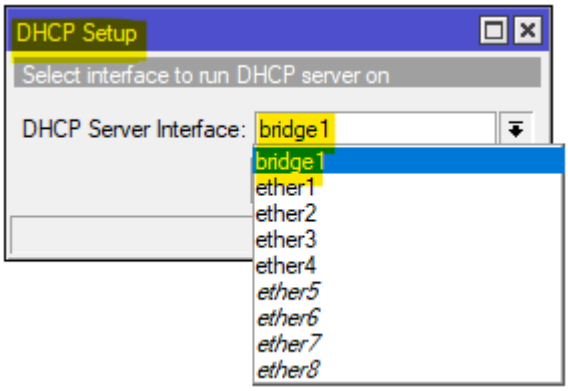

Figure 5

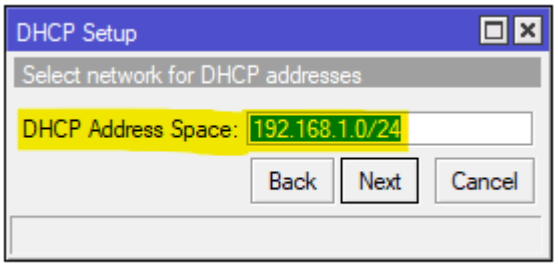

Figure 6

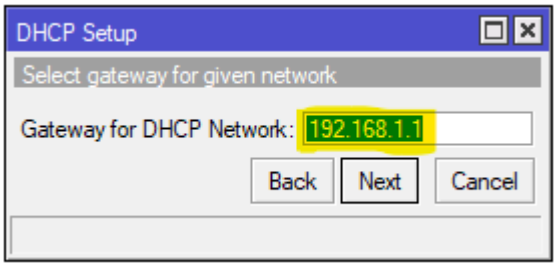

Figure 7

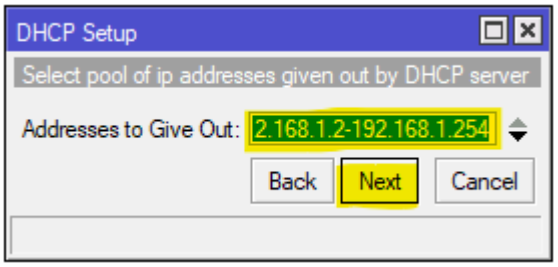

Figure 8

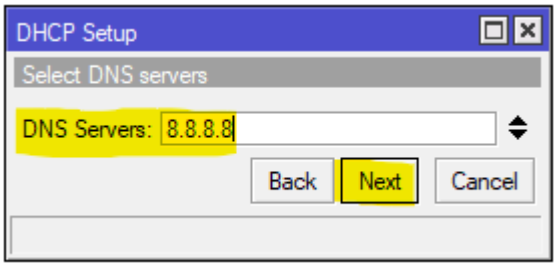

Figure 9

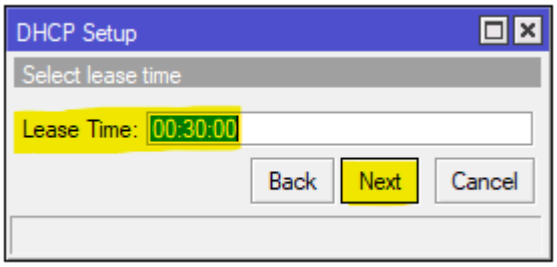

Figure 10

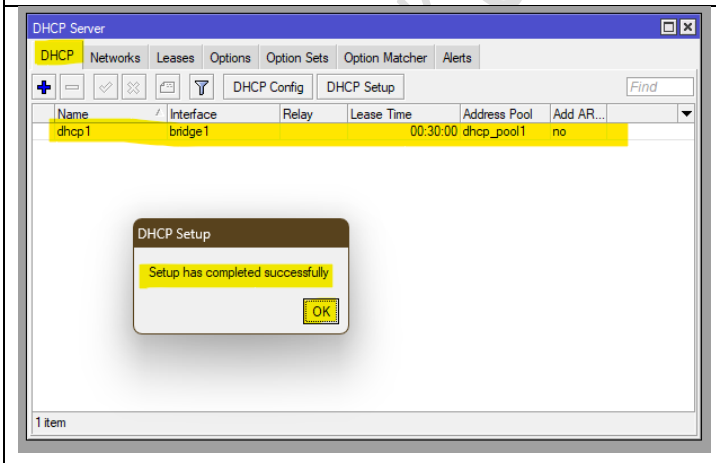

Figure 11

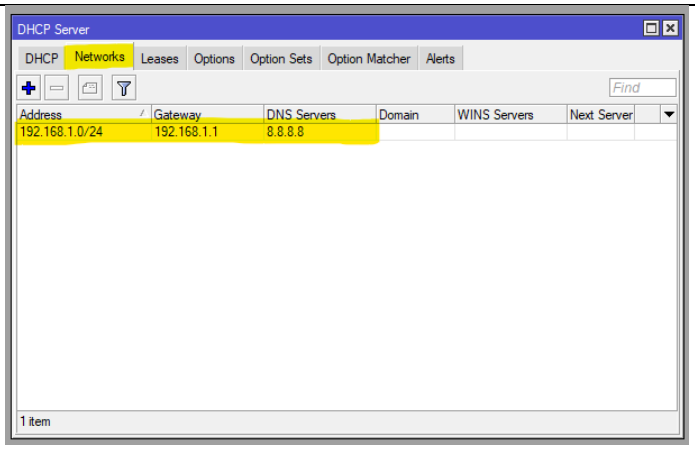

Figure 12

5. Configure the route

Step 1: Select "**IP**" On that you will find the "**Routes**" option.

Step 2: Click on the "**add**" symbol "+".

Step 3: In "**Dst. Address**" Enter "0.0.0.0/0" & In "**Gateway**" Public IP that is provided by ISP

Step 4: Select "**Apply**" & "**OK**"

CMD

```
/ip route add dst-address=0.0.0.0/0 gateway=[Public Ip]
```

Example

```
/ip route add dst-address=0.0.0.0/0 gateway=10.10.69.250
```

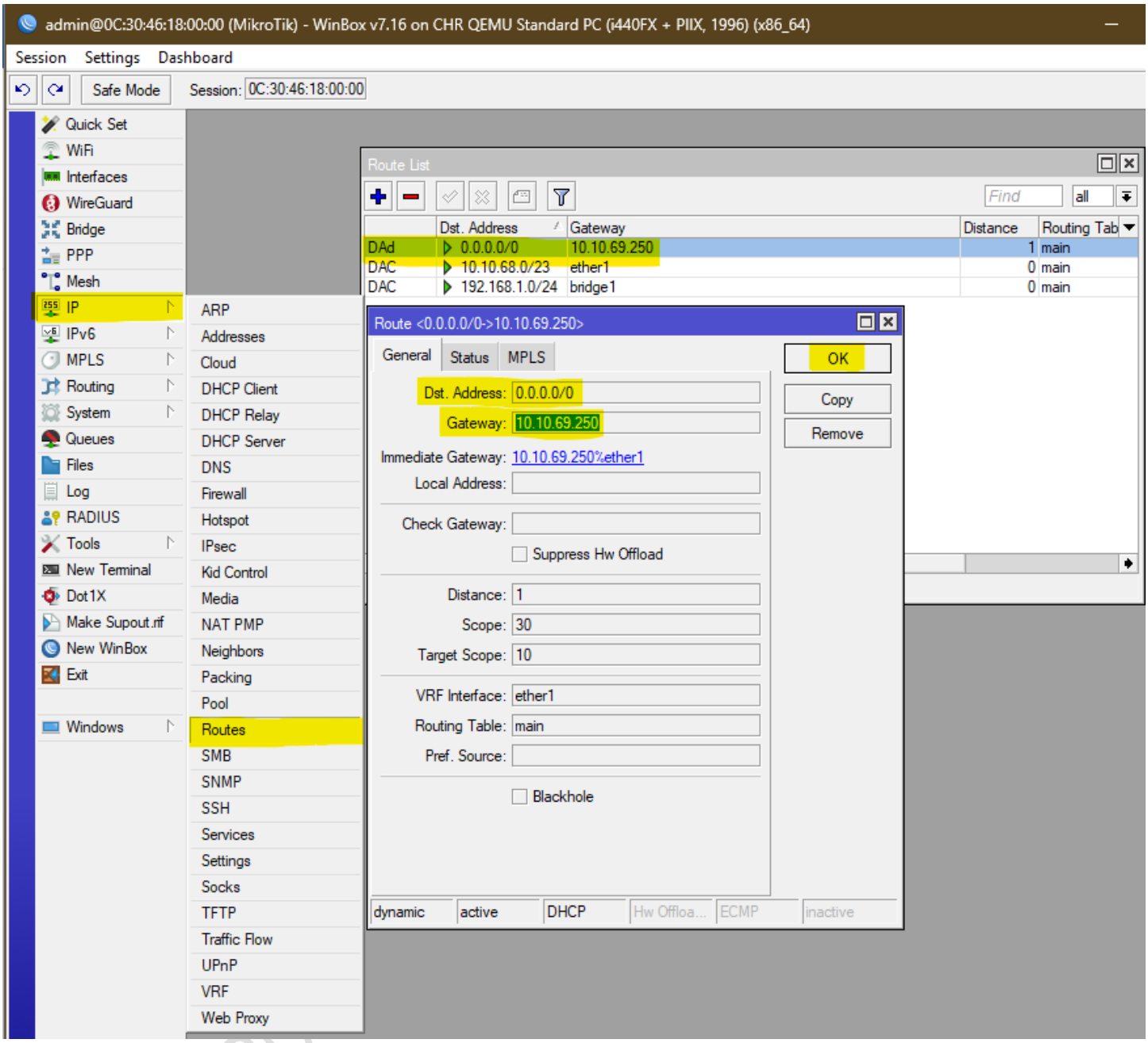

Figure 13

6. Set up NAT

Step 1: Select "**IP**" On that you will find the "**Routes**" Option.

Step 2: Click on the "**add**" symbol "+".

Step 3: In "**General**" you will find "**Chain**" leave it default "**srcnat**"

Step 4: Select "**Action**" you will find "Action" in that select "**masquerade**"

Step 5: Select "**Apply**" & "**OK**"

CMD

```
ip firewall nat/

add chain=srcnat action=masquerade
```

Example

```
ip firewall nat/

add chain=srcnat action=masquerade
```

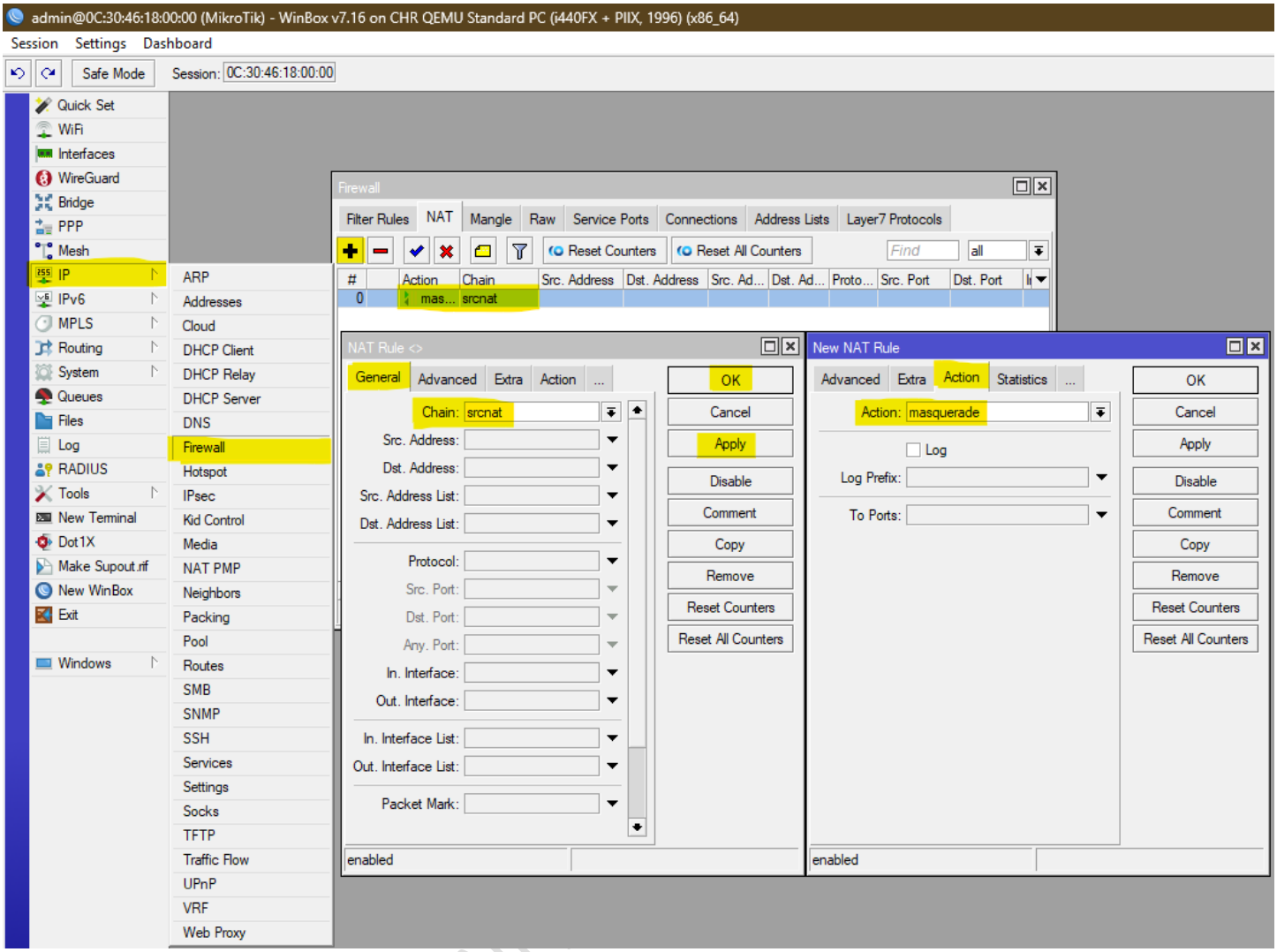

Figure 14

FINISHED

NOW CONNECTED TO YOUR PC and Internet connection will arrive.