

Heading 1: Basic MikroTik Configuration

Topic 1.1 – MikroTik Configuration using Dynamic IP (with Gateway, DNS & NAT)

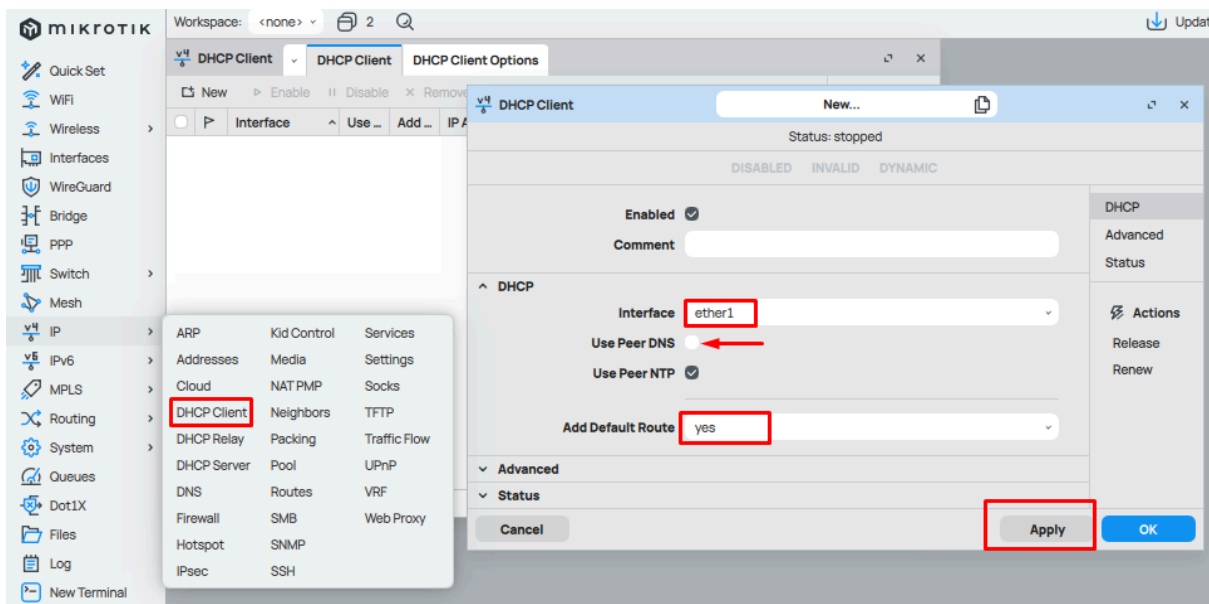
Step 1: Configure WAN Interface (Dynamic IP)

CLI:

```
/ip dhcp-client add interface=ether1 use-peer-dns=no use-peer-ntp=yes add-default-route=yes
```

Winbox:

- Go to IP → DHCP Client → Add (+)
- Select Interface: ether1
- Check Add Default Route
- Uncheck Use Peer DNS if you want custom DNS



Note that: When using Dynamic IP, the gateway comes automatically from the ISP via DHCP. You don't need to configure it manually—just check `/ip route print` to see it.

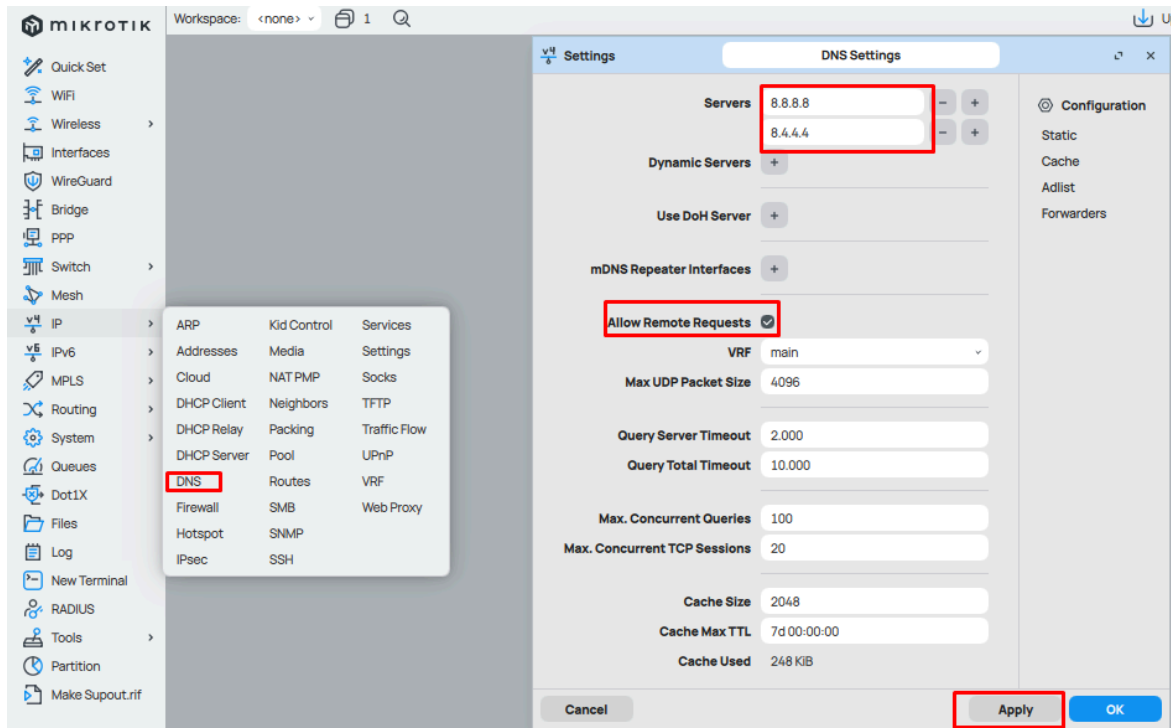
Step 2: Configure DNS

CLI:

```
/ip dns set servers=8.8.8.8,8.8.4.4 allow-remote-requests=yes
```

Winbox:

Go to IP → DNS
Enter 8.8.8.8, 8.8.4.4
Enable Allow Remote Requests



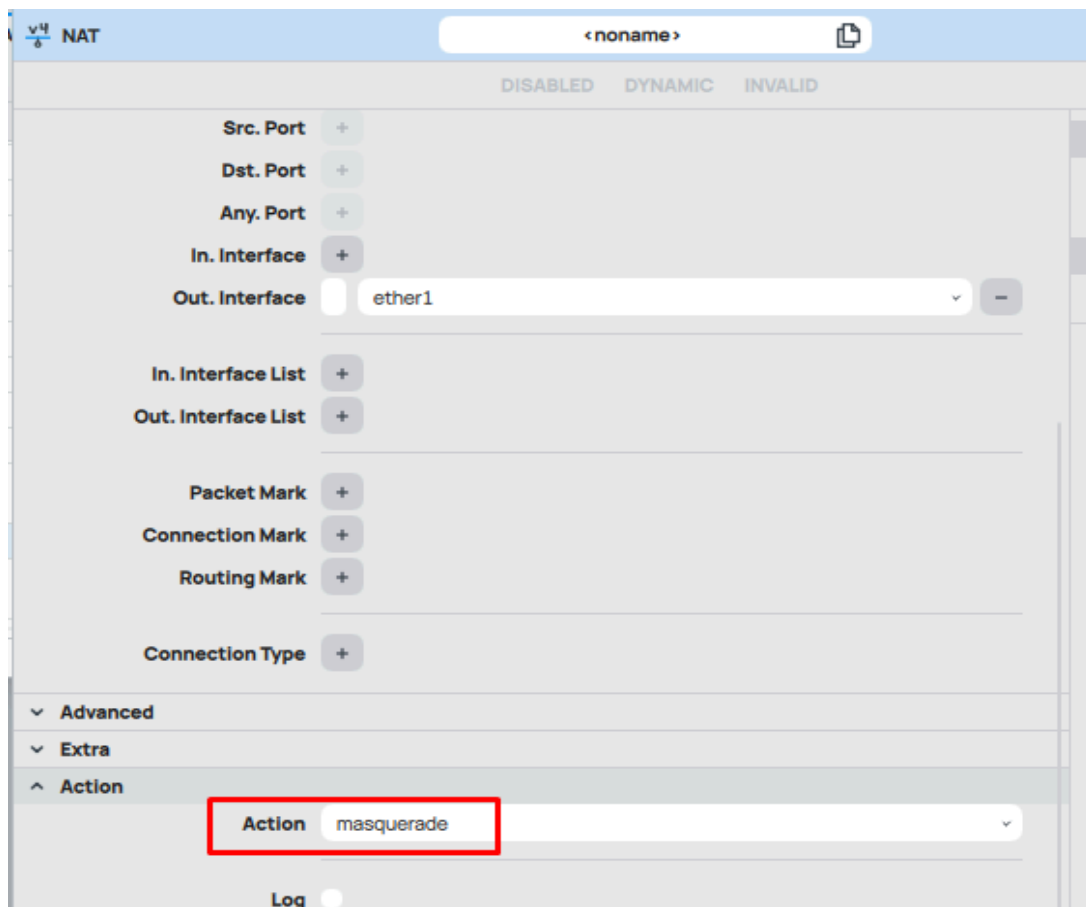
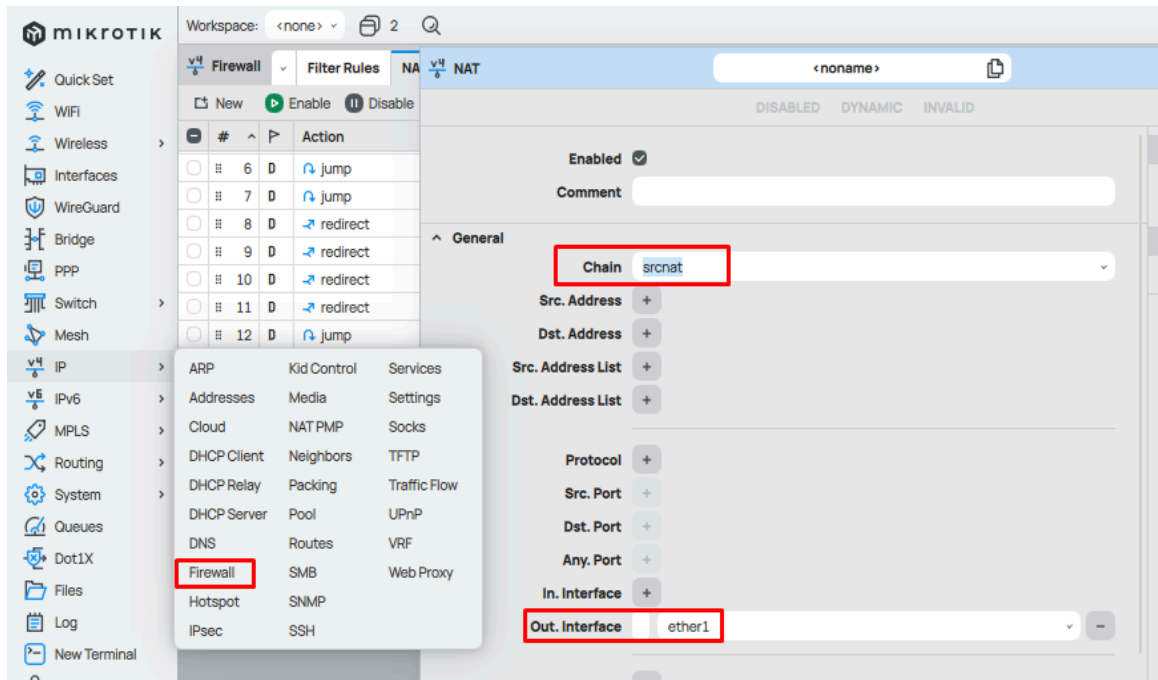
Step 3: Set NAT (Masquerade)

CLI:

```
/ip firewall nat add chain=srcnat action=masquerade out-interface=ether1
```

Winbox:

- Go to IP → Firewall → NAT → Add (+)
- Chain: **srcnat**
- Out Interface: **ether1**
- Action: **masquerade**



Topic 1.2 – MikroTik Configuration using Static IP (with Gateway, DNS & NAT, Without Bridging)

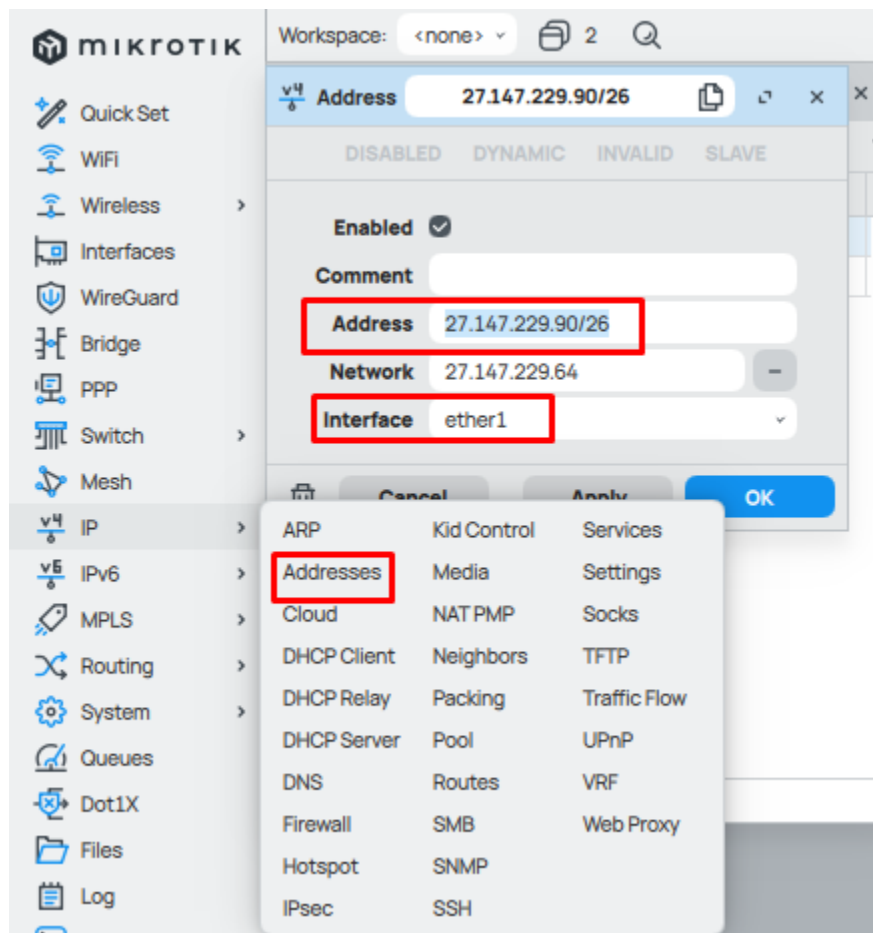
Step 1: Configure WAN Interface (Static IP)

CLI:

```
/ip address add address=27.147.229.90/26 interface=ether1
```

Winbox:

- Go to IP → Addresses → Add (+)
- Address: 27.147.229.90/26
- Interface: ether1



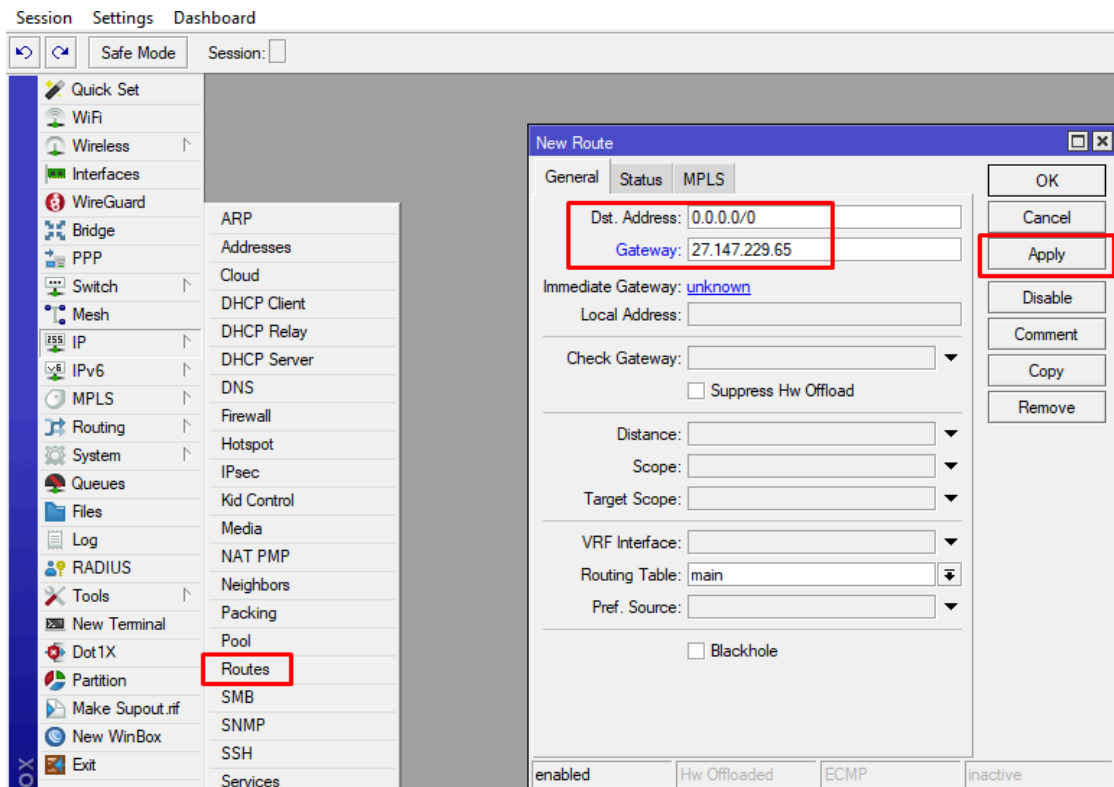
Step 2: Configure Gateway

CLI:

```
/ip route add gateway=27.147.229.65
```

Winbox:

- Go to IP → Routes → Add (+)
- Gateway: 27.147.229.65



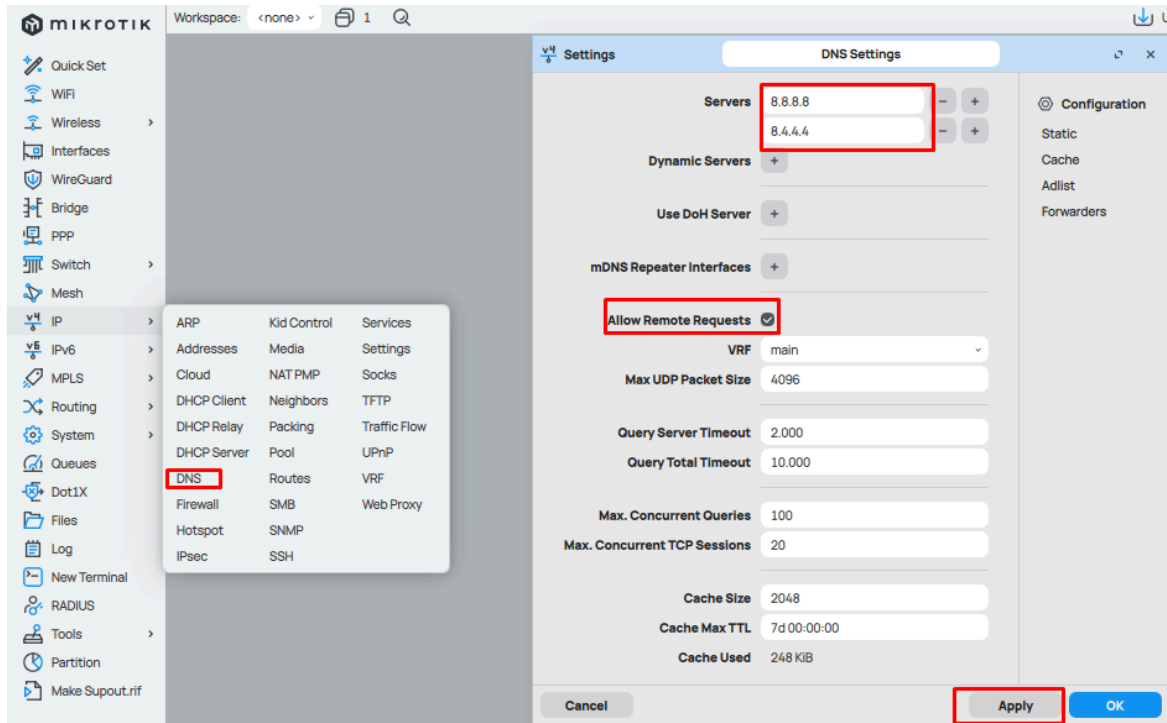
Step 3: Configure DNS

CLI:

```
/ip dns set servers=8.8.8.8,1.1.1.1 allow-remote-requests=yes
```

Winbox:

- Go to IP → DNS
- Enter 8.8.8.8, 1.1.1.1
- Enable Allow Remote Requests



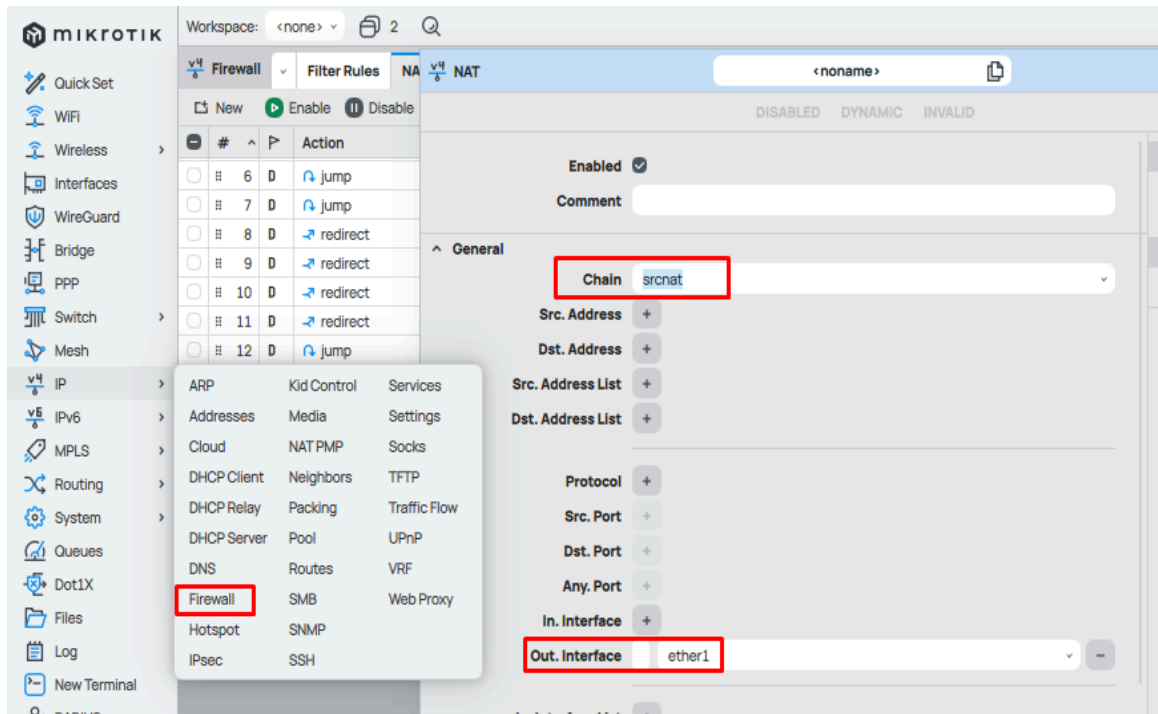
Step 4: Configure NAT (Masquerade)

CLI:

```
/ip firewall nat add chain=srcnat action=masquerade out-interface=ether1
```

Winbox:

- Go to IP → Firewall → NAT → Add (+)
- Chain: **srcnat**
- Out Interface: **ether1**
- Action: **masquerade**



Topic 1.3 – Bridging Two Ports and Configuring with Dynamic & Static IP (with Gateway, DNS & NAT)

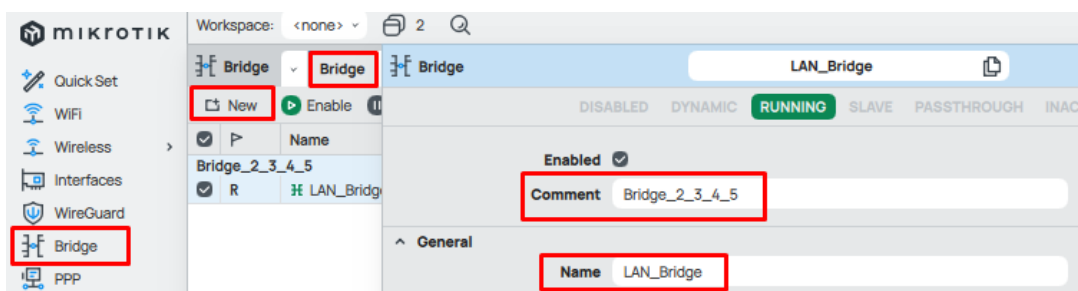
Step 1: Create Bridge and Add LAN Ports

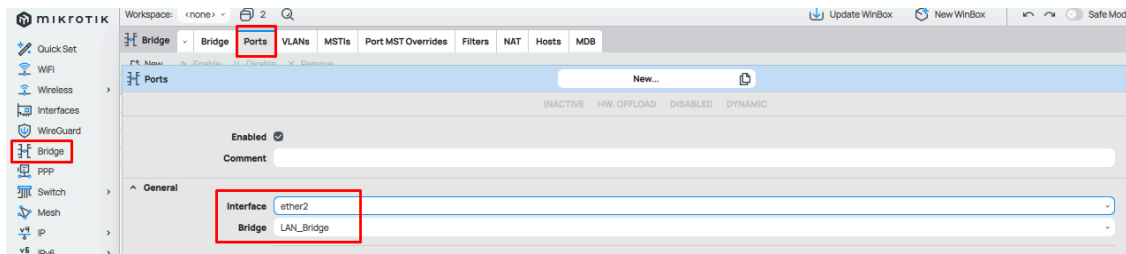
CLI:

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

Winbox:

- Go to Bridge → Bridge → Add (+) → Name **bridge1**
- Go to Bridge → Ports → Add (+)
- Add **ether2**, **ether3** to **bridge1**

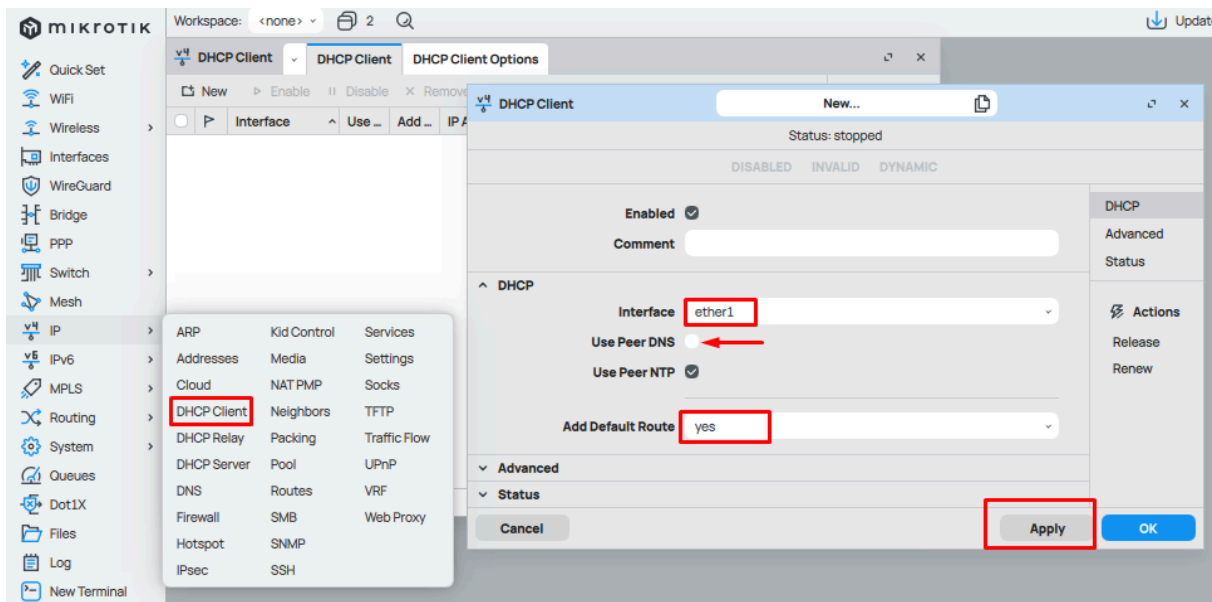




Step 2: Configure WAN (Dynamic IP or Static IP)

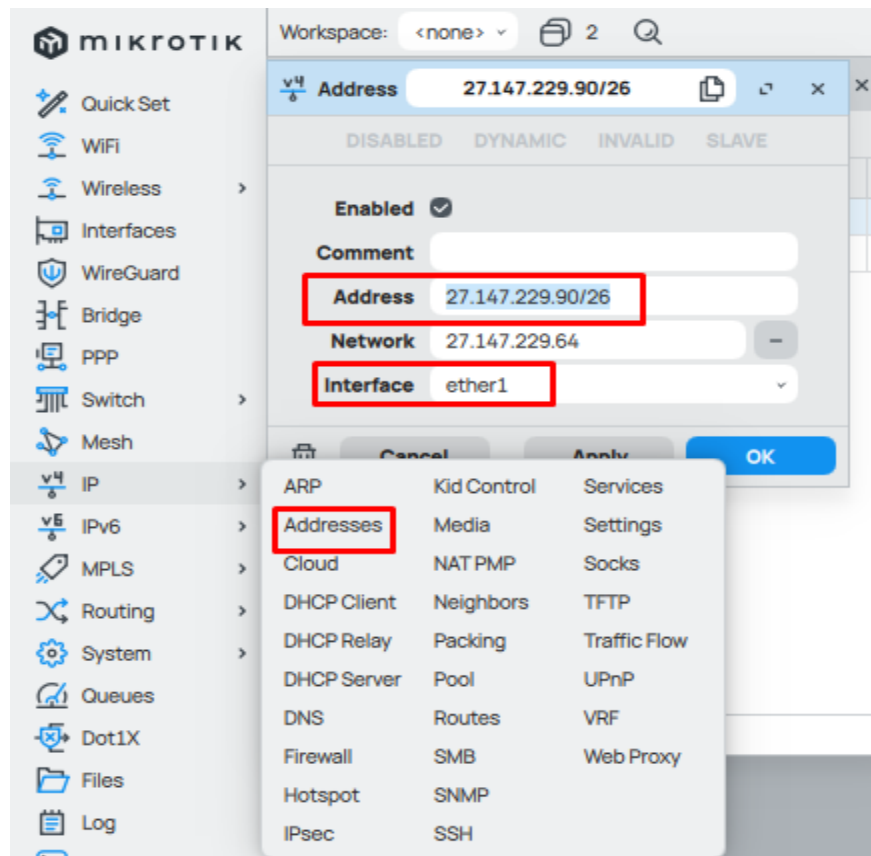
Dynamic:

`/ip dhcp-client add interface=ether1 use-peer-dns=no add-default-route=yes`

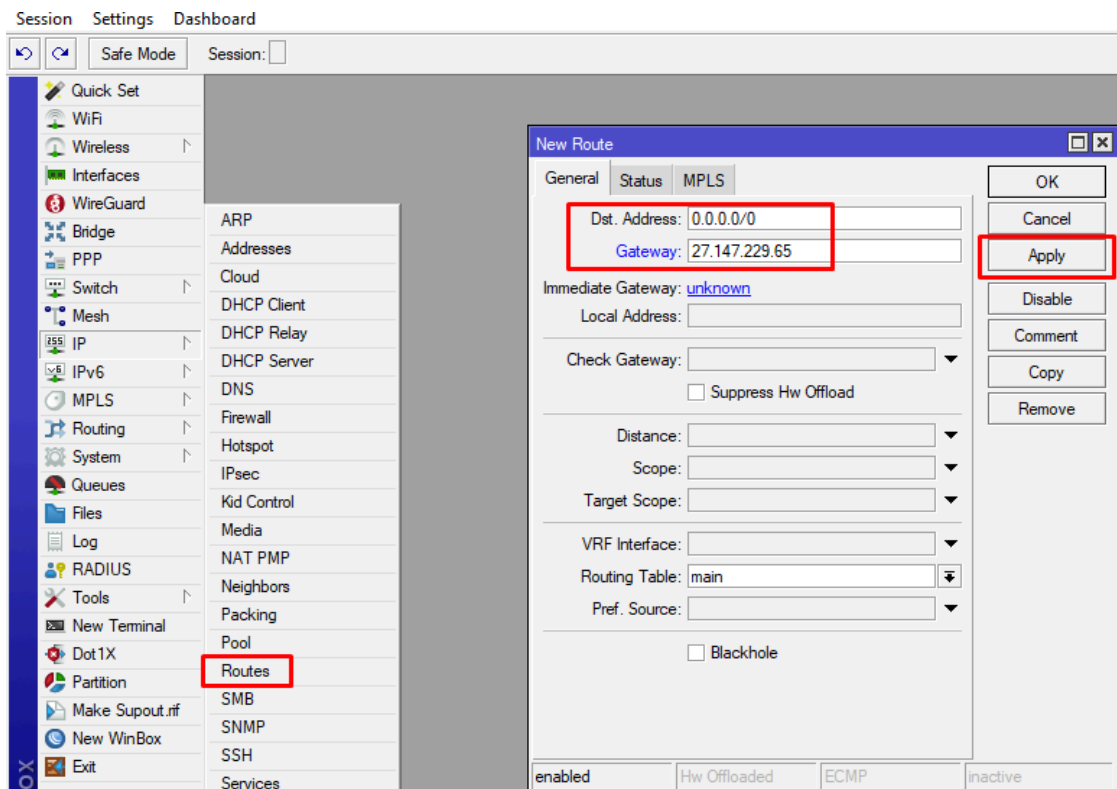


Static:

`/ip address add address=27.147.229.90/26 interface=ether1`



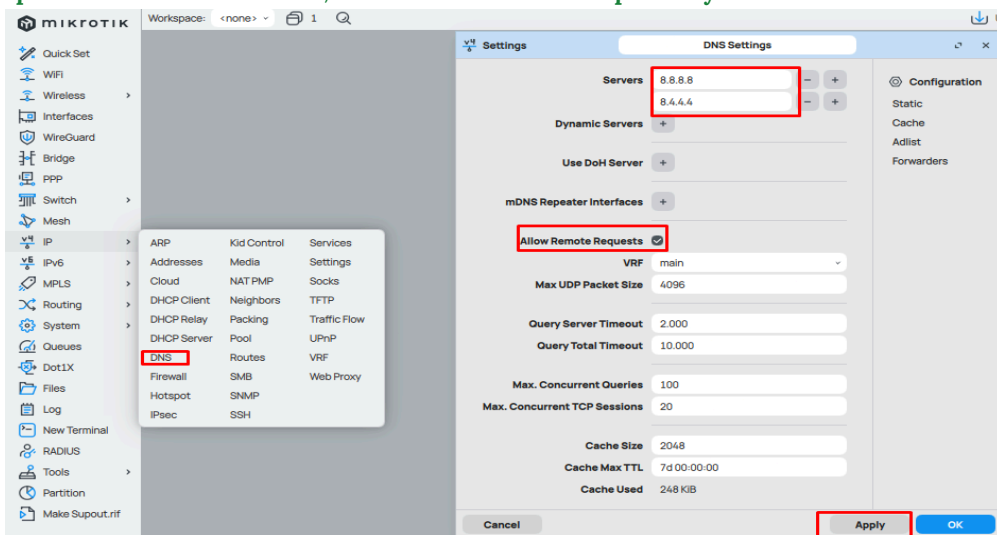
`/ip route add gateway=27.147.229.65`



Step 3: Configure DNS

CLI:

`/ip dns set servers=8.8.8.8,1.1.1.1 allow-remote-requests=yes`



Step 4: Configure NAT (Masquerade)

CLI:

```
/ip firewall nat add chain=srcnat action=masquerade out-interface=ether1
```

