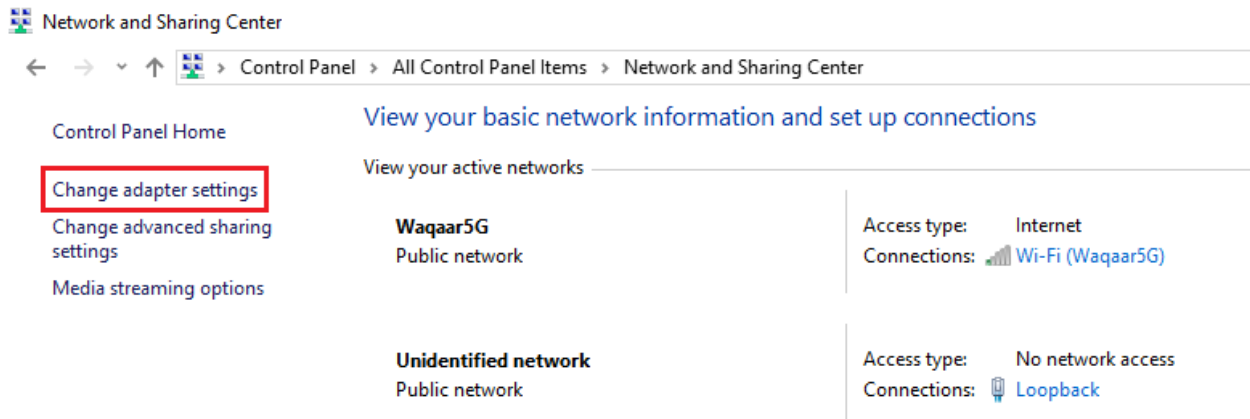


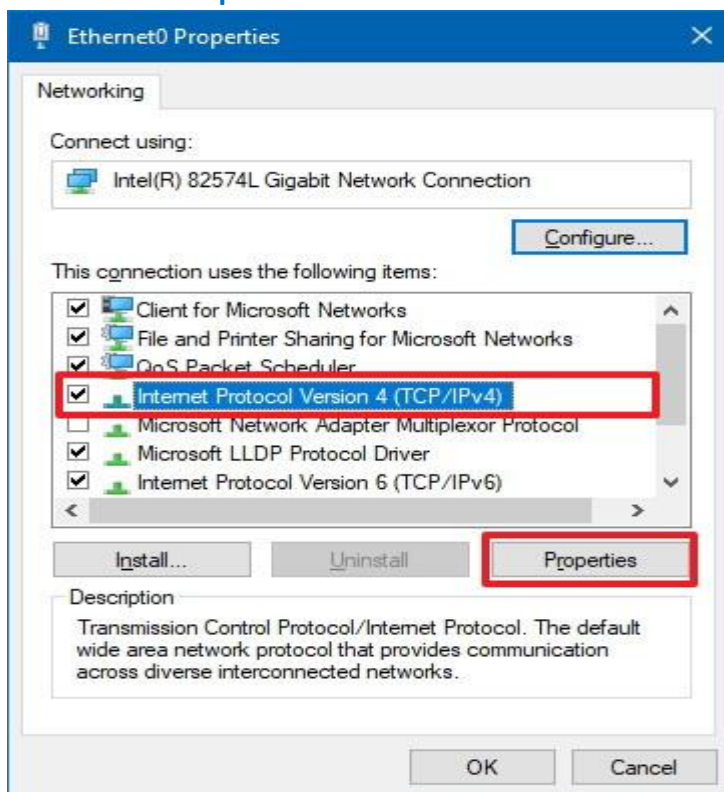
## IP Parameters for Client Windows OS:

Use these steps to assign a static IP configuration:

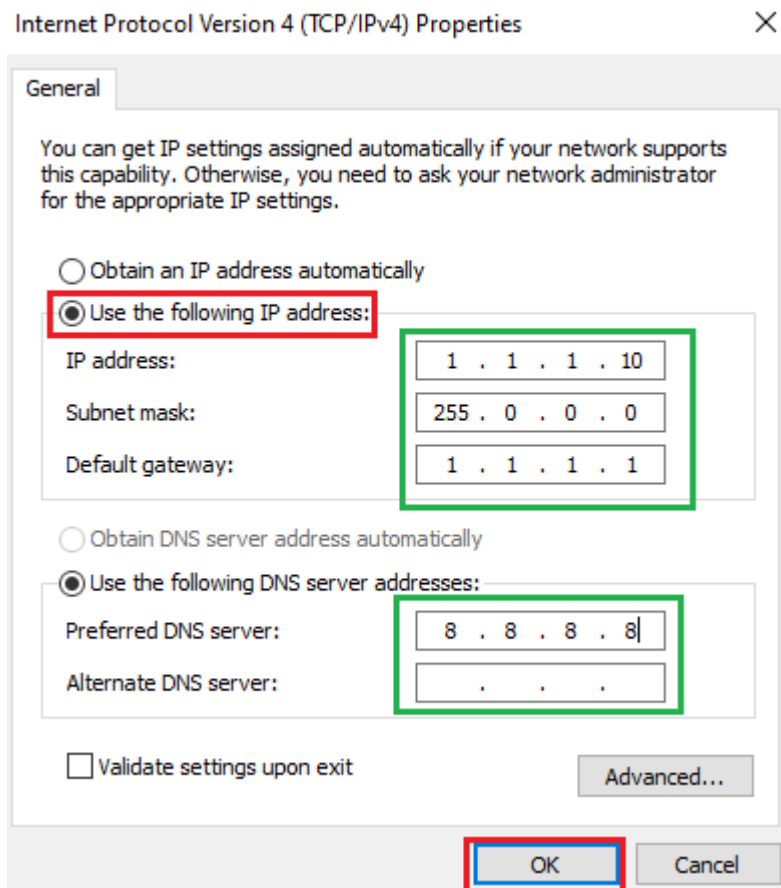
1. Open **Control Panel**.
2. Click on **Network and Internet**.
3. Click on **Network and Sharing Center**.
4. On the left pane, click the **Change adapter settings** link.



5. Right-click the network adapter and select the **Properties** option.
6. Select the **Internet Protocol Version 4 (TCP/IPv4)** option.
7. Click the **Properties** button.



8. Select the **Use the following IP address** option.
9. Set the **IP address** (for example, **1.1.1.10**).
10. Set the **Subnet mask** (for example, **255.0.0.0**).
11. Set the **Default gateway**(for example, **1.1.1.1**).
12. Under “Use the following DNS server addresses” set Preferred DNS(for example, **8.8.8.8**).
13. (Optional) Enter set the **Alternative DNS server**, Click the **OK** button.
14. Click the **OK** button.



15. Click the **Close** button again.

To verify open **CMD** type command **ipconfig** or **ipconfig /all**

```
C:\Users\Aali.c>ipconfig

Windows IP Configuration

Ethernet adapter Loopback:

    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : 1000::1
    Link-local IPv6 Address . . . . . : fe80::8127:45f3:c9eb:58ad%9
    IPv4 Address. . . . . : 1.1.1.10
    Subnet Mask . . . . . : 255.0.0.0
    Default Gateway . . . . . : 1.1.1.1
```

Open CMD type `route print` or `netstat -nr` to check routing table for windows PC.

```
C:\Users\aaali.c>route print
IPv4 Route Table
=====
Active Routes:
Network Destination        Netmask          Gateway          Interface        Metric
0.0.0.0                    0.0.0.0          192.168.100.1    192.168.100.15   60
0.0.0.0                    0.0.0.0          1.1.1.1          1.1.1.10         281
1.0.0.0                    255.0.0.0        On-link          1.1.1.10         281
1.1.1.10                  255.255.255.255  On-link          1.1.1.10         281
1.255.255.255             255.255.255.255  On-link          1.1.1.10         281
127.0.0.0                  255.0.0.0        On-link          127.0.0.1        331
127.0.0.1                  255.255.255.255  On-link          127.0.0.1        331
127.255.255.255           255.255.255.255  On-link          127.0.0.1        331
192.168.17.0               255.255.255.0    On-link          192.168.17.1     291
192.168.17.1              255.255.255.255  On-link          192.168.17.1     291
192.168.17.255            255.255.255.255  On-link          192.168.17.1     291
192.168.78.0              255.255.255.0    On-link          192.168.78.1     291
192.168.78.1              255.255.255.255  On-link          192.168.78.1     291
192.168.78.255            255.255.255.255  On-link          192.168.78.1     291
192.168.100.0             255.255.255.0    On-link          192.168.100.15   316
192.168.100.15            255.255.255.255  On-link          192.168.100.15   316
192.168.100.255           255.255.255.255  On-link          192.168.100.15   316
224.0.0.0                  240.0.0.0        On-link          127.0.0.1        331
224.0.0.0                  240.0.0.0        On-link          192.168.100.15   316
224.0.0.0                  240.0.0.0        On-link          1.1.1.10         281
224.0.0.0                  240.0.0.0        On-link          192.168.17.1     291
224.0.0.0                  240.0.0.0        On-link          192.168.78.1     291
255.255.255.255           255.255.255.255  On-link          127.0.0.1        331
255.255.255.255           255.255.255.255  On-link          192.168.100.15   316
255.255.255.255           255.255.255.255  On-link          1.1.1.10         281
255.255.255.255           255.255.255.255  On-link          192.168.17.1     291
255.255.255.255           255.255.255.255  On-link          192.168.78.1     291
=====
Persistent Routes:
Network Address          Netmask  Gateway Address  Metric
0.0.0.0                  0.0.0.0  1.1.1.1          Default
```

## IP Parameters for Client Linux OS:

Setup IP Address in Kali Linux:

```
root@kali:~# ifconfig eth0 192.168.78.134 netmask 255.255.255.0 up
```

```
root@kali:~# ifconfig eth0 192.168.78.134 netmask 255.255.255.0 up
```

Setup Gateway in Kali Linux:

```
root@kali:~# route add default gw 192.168.78.100 eth0
```

```
root@kali:~# route add default gw 192.168.78.100 eth0
```

Setup DNS in Kali Linux:

```
root@kali:~# echo "nameserver 8.8.8.8" > /etc/resolv.conf
```

```
root@kali:~# echo "nameserver 8.8.8.8" > /etc/resolv.conf
```

Check your IP configuration in Kali Linux:

```
root@kali:~# ifconfig
```

```
root@kali:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.78.134 netmask 255.255.255.0 broadcast 192.168.78.255
    inet6 fe80::20c:29ff:fe0d:e4a3 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:0d:e4:a3 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
```

Check your routing table in Kali Linux:

```
root@kali:~# route
```

```
root@kali:~# route
Kernel IP routing table
Destination      Gateway          Genmask          Flags Metric Ref    Use Iface
default          192.168.78.100  0.0.0.0          UG        100    0      0 eth0
192.168.78.0     0.0.0.0          255.255.255.0    U         100    0      0 eth0
root@kali:~#
```

```
root@kali:~# netstat -nr
```

```
root@kali:~# netstat -nr
Kernel IP routing table
Destination      Gateway          Genmask          Flags  MSS Window  irtt Iface
0.0.0.0          192.168.78.100  0.0.0.0          UG      0  0        0 eth0
0.0.0.0          192.168.78.100  0.0.0.0          UG      0  0        0 eth0
192.168.78.0     0.0.0.0          255.255.255.0    U       0  0        0 eth0
```

Check your DNS setting in Kali Linux:

```
root@kali:~# cat /etc/resolv.conf
```

```
root@kali:~# cat /etc/resolv.conf
# Generated by NetworkManager
nameserver 8.8.8.8
```