

# Arsany Ashraf

## Lab1

### 1. ipconfig

#### 1. ipconfig

```
C:\Windows\system32>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : fd17:625c:f037:2:cc0f:83ac:cf64:5057
    Temporary IPv6 Address. . . . . : fd17:625c:f037:2:4171:1670:e4d7:5d01
    Link-local IPv6 Address . . . . . : fe80::cc0f:83ac:cf64:5057%12
    IPv4 Address. . . . . : 10.0.2.15
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::2%12
                                10.0.2.2

C:\Windows\system32>
```

#### 2. ipconfig /all

```
C:\Windows\system32>ipconfig /all

Windows IP Configuration

Host Name . . . . . : DESKTOP-TP980EK
Primary Dns Suffix . . . . . : 
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : 

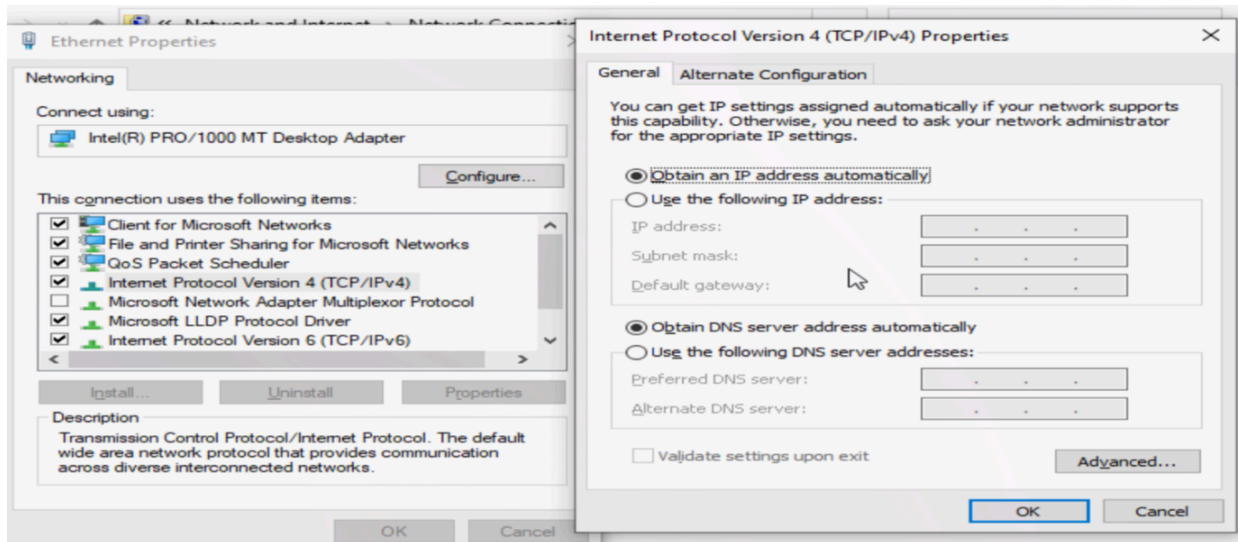
Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Description . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
    Physical Address. . . . . : 08-00-27-FF-62-1D
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    IPv6 Address. . . . . : fd17:625c:f037:2:cc0f:83ac:cf64:5057(Preferred)
    Temporary IPv6 Address. . . . . : fd17:625c:f037:2:4171:1670:e4d7:5d01(Preferred)
    Link-local IPv6 Address . . . . . : fe80::cc0f:83ac:cf64:5057%12(Preferred)
    IPv4 Address. . . . . : 10.0.2.15(Preferred)
    Subnet Mask . . . . . : 255.255.255.0
    Lease Obtained. . . . . : Saturday, November 9, 1889 6:59:26 AM
    Lease Expires . . . . . : Wednesday, December 17, 2025 3:27:43 AM
    Default Gateway . . . . . : fe80::2%12
                                10.0.2.2
    DHCP Server . . . . . : 10.0.2.2
    DHCPv6 IAID . . . . . : 101187623
    DHCPv6 Client DUID. . . . . : 00-01-00-01-30-86-B7-39-08-00-27-FF-62-1D
    DNS Servers . . . . . : 10.0.2.3
    NetBIOS over Tcpip. . . . . : Enabled

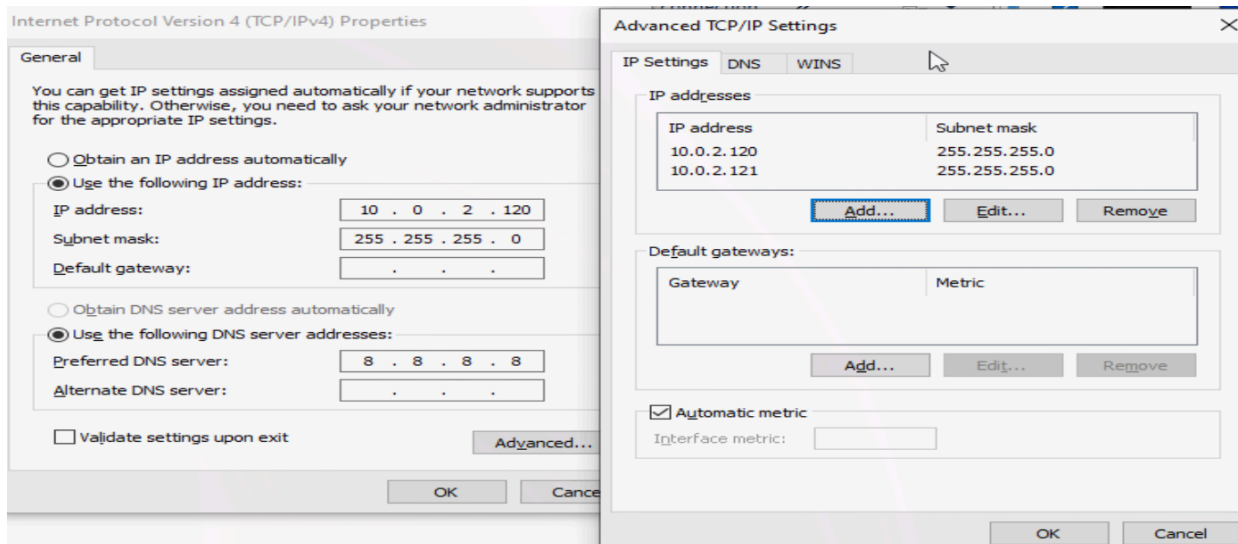
C:\Windows\system32>
```

### 2. configure ip address

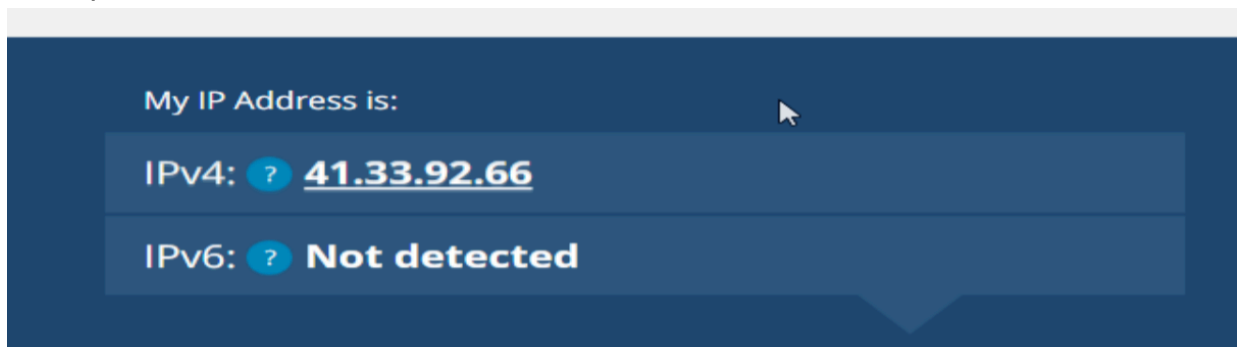
### 1. manually



### 2. automatic & alternative



### 3. Real Ip address



### 3. Ping

1. ping default gateway

```
C:\Users\miles>ping 10.0.2.2

Pinging 10.0.2.2 with 32 bytes of data:
Reply from 10.0.2.2: bytes=32 time<1ms TTL=255
Reply from 10.0.2.2: bytes=32 time<1ms TTL=255
Reply from 10.0.2.2: bytes=32 time<1ms TTL=255
Reply from 10.0.2.2: bytes=32 time<1ms TTL=255

Ping statistics for 10.0.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

2. ping Google.com + size + number of packets

```
C:\Users\miles>ping google.com -l 1000 -n 7

Pinging google.com [142.250.201.14] with 1000 bytes of data:
Reply from 142.250.201.14: bytes=1000 time=42ms TTL=255
Reply from 142.250.201.14: bytes=1000 time=44ms TTL=255
Reply from 142.250.201.14: bytes=1000 time=44ms TTL=255
Reply from 142.250.201.14: bytes=1000 time=44ms TTL=255
Reply from 142.250.201.14: bytes=1000 time=44ms TTL=255
Reply from 142.250.201.14: bytes=1000 time=44ms TTL=255
Reply from 142.250.201.14: bytes=1000 time=42ms TTL=255

Ping statistics for 142.250.201.14:
    Packets: Sent = 7, Received = 7, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 42ms, Maximum = 44ms, Average = 43ms
```

4. getMac

```
C:\Users\miles>getmac

Physical Address      Transport Name
-----
08-00-27-FF-62-1D    \Device\NPF{B71B2DC8-0A0D-4D7A-ACED-4A702623C732}

C:\Users\miles>
```

5. Arp table

1. Arp -a

```
C:\Users\miles>arp -a

Interface: 10.0.2.15 --- 0xc
Internet Address      Physical Address      Type
10.0.2.2              52-55-0a-00-02-02    dynamic
10.0.2.3              52-55-0a-00-02-03    dynamic
10.0.2.255            ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251          01-00-5e-00-00-fb    static
224.0.0.252          01-00-5e-00-00-fc    static
239.255.255.250      01-00-5e-7f-ff-fa    static
255.255.255.255      ff-ff-ff-ff-ff-ff    static
```

## 2. Arp -d >> Arp -a

```
C:\Windows\system32>arp -d  
  
C:\Windows\system32>arp -a  
  
Interface: 10.0.2.15 --- 0xc  
    Internet Address      Physical Address      Type  
    10.0.2.2              52-55-0a-00-02-02    dynamic  
    224.0.0.22            01-00-5e-00-00-16    static  
  
C:\Windows\system32>
```

## 6. Opened Ports

### 1. netstat -n

```
C:\Windows\system32>netstat -n  
  
Active Connections  
  
Proto Local Address          Foreign Address         State  
TCP    10.0.2.15:49676        98.66.133.184:443      ESTABLISHED  
TCP    10.0.2.15:50268        13.107.213.43:443      CLOSE_WAIT  
TCP    10.0.2.15:50299        13.107.213.38:443      CLOSE_WAIT  
TCP    10.0.2.15:50300        150.171.27.11:443      CLOSE_WAIT  
TCP    10.0.2.15:50329        23.196.96.159:80       ESTABLISHED  
TCP    10.0.2.15:50338        184.25.102.83:443      CLOSE_WAIT  
TCP    10.0.2.15:50340        172.66.2.5:80          ESTABLISHED  
TCP    10.0.2.15:50341        204.79.197.203:80      CLOSE_WAIT  
TCP    10.0.2.15:50342        184.25.102.71:443      CLOSE_WAIT  
TCP    10.0.2.15:50343        184.25.102.71:443      CLOSE_WAIT  
TCP    10.0.2.15:50344        184.25.102.71:443      CLOSE_WAIT  
TCP    10.0.2.15:50345        184.25.102.71:443      CLOSE_WAIT  
TCP    10.0.2.15:50346        184.25.102.71:443      CLOSE_WAIT  
TCP    10.0.2.15:50347        23.48.32.71:443        CLOSE_WAIT  
TCP    10.0.2.15:50348        23.48.32.71:443        CLOSE_WAIT  
TCP    10.0.2.15:50349        23.53.1.152:443        CLOSE_WAIT  
TCP    10.0.2.15:50350        23.53.1.152:443        CLOSE_WAIT  
TCP    10.0.2.15:50351        23.48.32.71:443        CLOSE_WAIT  
TCP    10.0.2.15:50352        23.53.1.152:443        CLOSE_WAIT  
TCP    10.0.2.15:50353        23.53.1.163:443        CLOSE_WAIT  
TCP    10.0.2.15:50354        23.53.1.163:443        CLOSE_WAIT  
TCP    10.0.2.15:50355        23.53.1.163:443        CLOSE_WAIT  
TCP    10.0.2.15:50356        23.53.1.163:443        CLOSE_WAIT  
TCP    10.0.2.15:50357        23.53.1.163:443        CLOSE_WAIT  
TCP    10.0.2.15:50358        23.53.1.163:443        CLOSE_WAIT  
TCP    10.0.2.15:50502        23.53.1.134:443        CLOSE_WAIT  
TCP    10.0.2.15:50520        51.8.64.151:443        CLOSE_WAIT
```

## 2. netstat -a 10.0.2.15

```
C:\Windows\system32>netstat -n 10.0.2.15
Active Connections:
  Proto Local Address          Foreign Address      State
  TCP    10.0.2.15:50342       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50343       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50344       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:49676       98.66.133.184:443    ESTABLISHED
  TCP    10.0.2.15:50268       13.107.213.43:443    CLOSE_WAIT
  TCP    10.0.2.15:50299       13.107.213.38:443    CLOSE_WAIT
  TCP    10.0.2.15:50300       150.171.27.11:443    CLOSE_WAIT
  TCP    10.0.2.15:50329       23.196.96.159:80     ESTABLISHED
  TCP    10.0.2.15:50338       184.25.102.83:443    CLOSE_WAIT
  TCP    10.0.2.15:50340       172.66.2.5:8043      ESTABLISHED
  TCP    10.0.2.15:50341       204.79.197.203:80    CLOSE_WAIT
  TCP    10.0.2.15:50342       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50343       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50344       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50345       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50346       184.25.102.71:443    CLOSE_WAIT
  TCP    10.0.2.15:50347       23.48.32.71:443     CLOSE_WAIT
  TCP    10.0.2.15:50348       23.48.32.71:443     CLOSE_WAIT
  TCP    10.0.2.15:50349       23.53.1.152:443     CLOSE_WAIT
  TCP    10.0.2.15:50350       23.53.1.152:443     CLOSE_WAIT
  TCP    10.0.2.15:50351       23.48.32.71:443     CLOSE_WAIT
  TCP    10.0.2.15:50352       23.53.1.152:443     CLOSE_WAIT
  TCP    10.0.2.15:50353       23.53.1.163:443     CLOSE_WAIT
  TCP    10.0.2.15:50354       23.53.1.163:443     CLOSE_WAIT
```

## 7. Domain Name System

```
C:\Windows\system32>nslookup google.com
Server: UnKnown
Address: 10.0.2.3

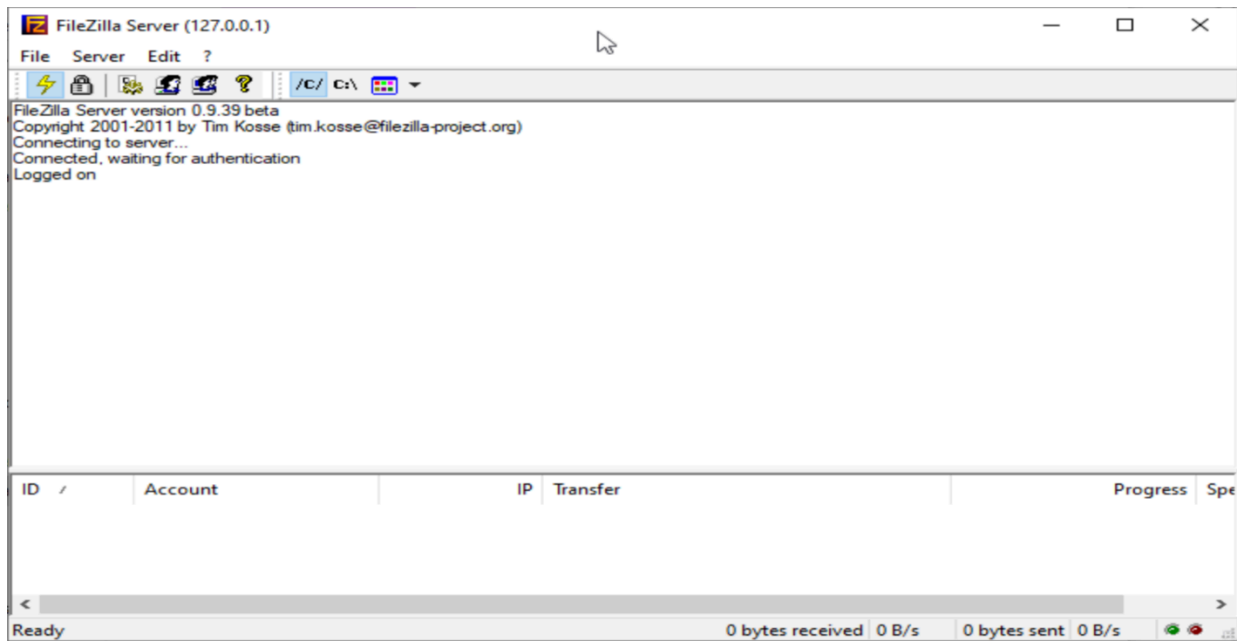
Non-authoritative answer:
Name: google.com
Addresses: 2a00:1450:4006:80e::200e
           142.251.39.174

C:\Windows\system32>nslookup 8.8.8.8
Server: UnKnown
Address: 10.0.2.3

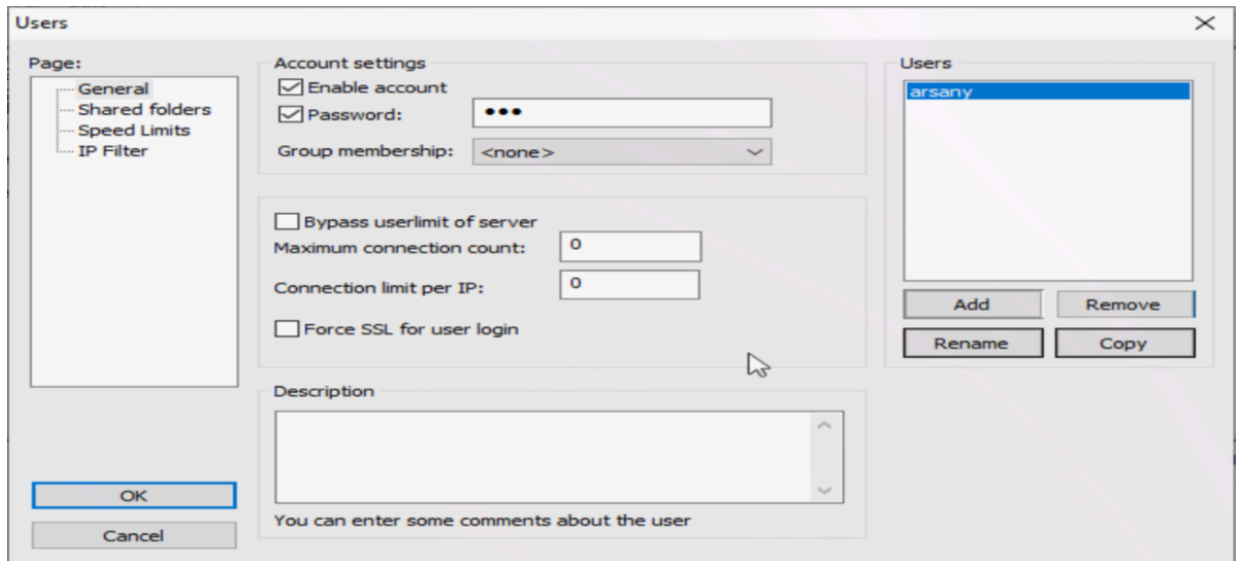
Name: dns.google
Address: 8.8.8.8
```

## 8. File Zilla Server

## 1. Server



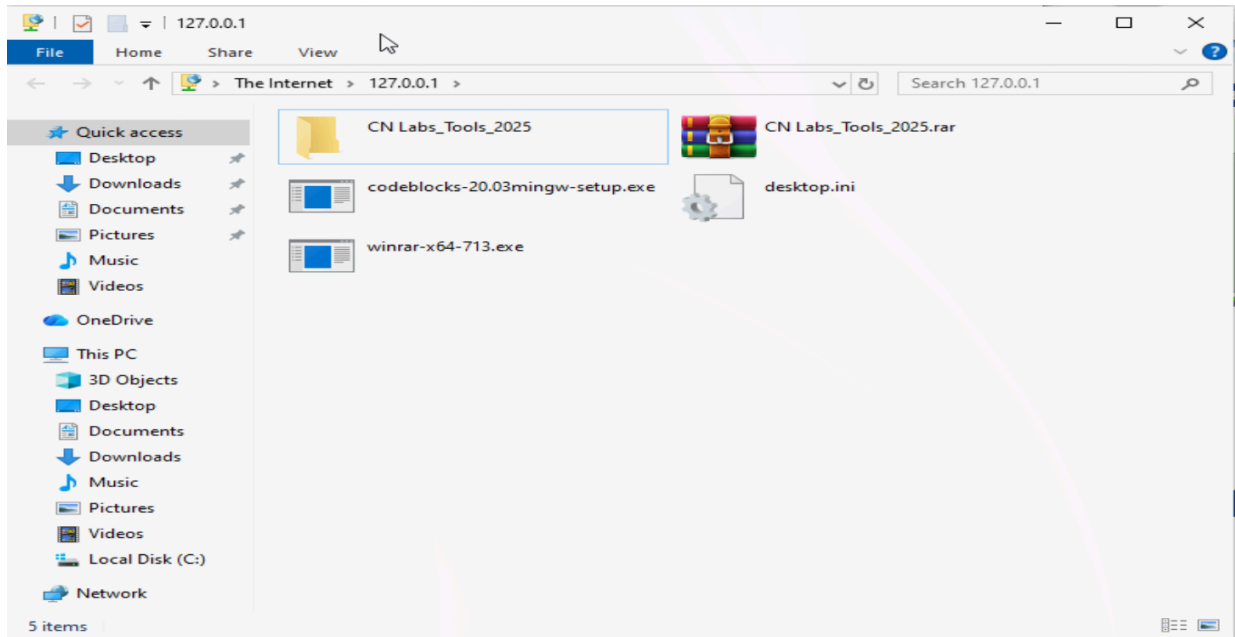
## 2. Add Users



## 9. File Zilla Client



## 1. File explorer client

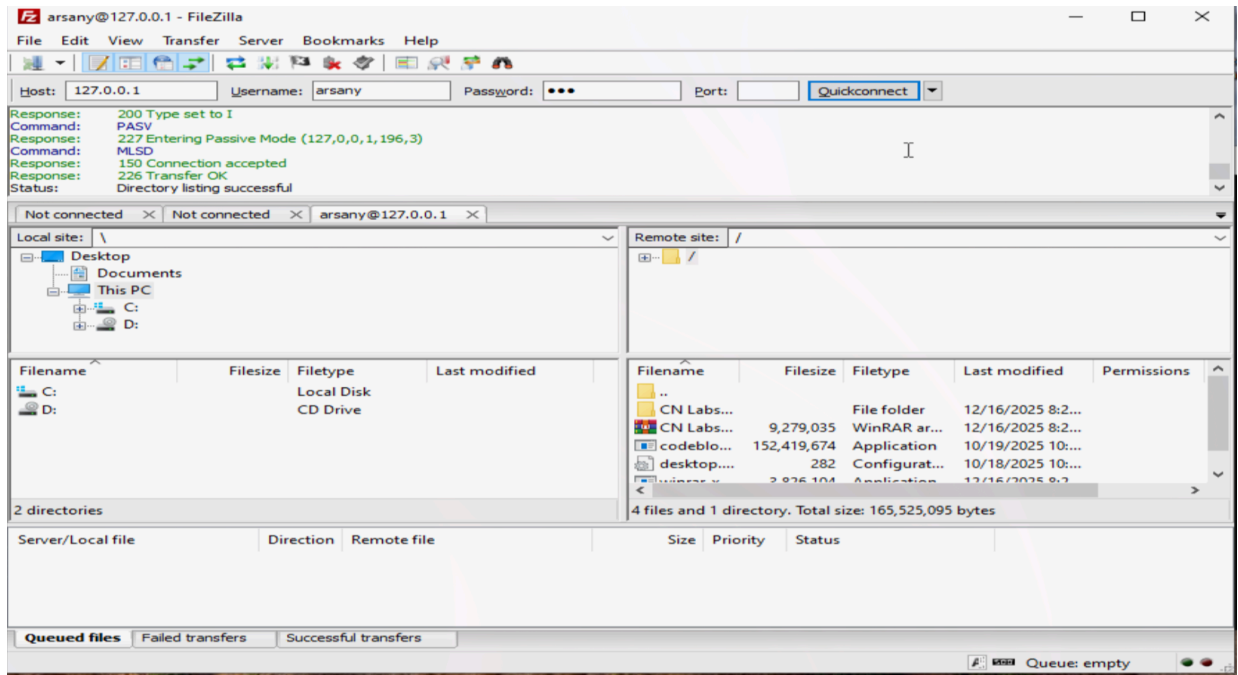


## 2. Ftp from cmd

```
Command Prompt - ftp

C:\Users\miles>ftp
ftp> open 127.0.0.1
Connected to 127.0.0.1.
220-FileZilla Server version 0.9.39 beta
220-written by Tim Kosse (Tim.Kosse@gmx.de)
220 Please visit http://sourceforge.net/projects/filezilla/
530 Please log in with USER and PASS first.
User (127.0.0.1:(none)): arsan
331 Password required for arsan
Password:
230 Logged on
ftp> ls
200 Port command successful
150 Opening data channel for directory list.
CN Labs_Tools_2025
CN Labs_Tools_2025.rar
codeblocks-20.03mingw-setup.exe
desktop.ini
winrar-x64-713.exe
226 Transfer OK
ftp: 113 bytes received in 0.00Seconds 113000.00Kbytes/sec.
ftp>
```

### 3. Filezilla Client



### 10. Remote Desktop Connection

1. This test was with on my friend's machine : Omar

