

Arsany Ashraf

Lab1

1. ipconfig

1. ipconfig

```
Administrator: Command Prompt
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

```
Select Administrator: Command Prompt
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. . . . . :

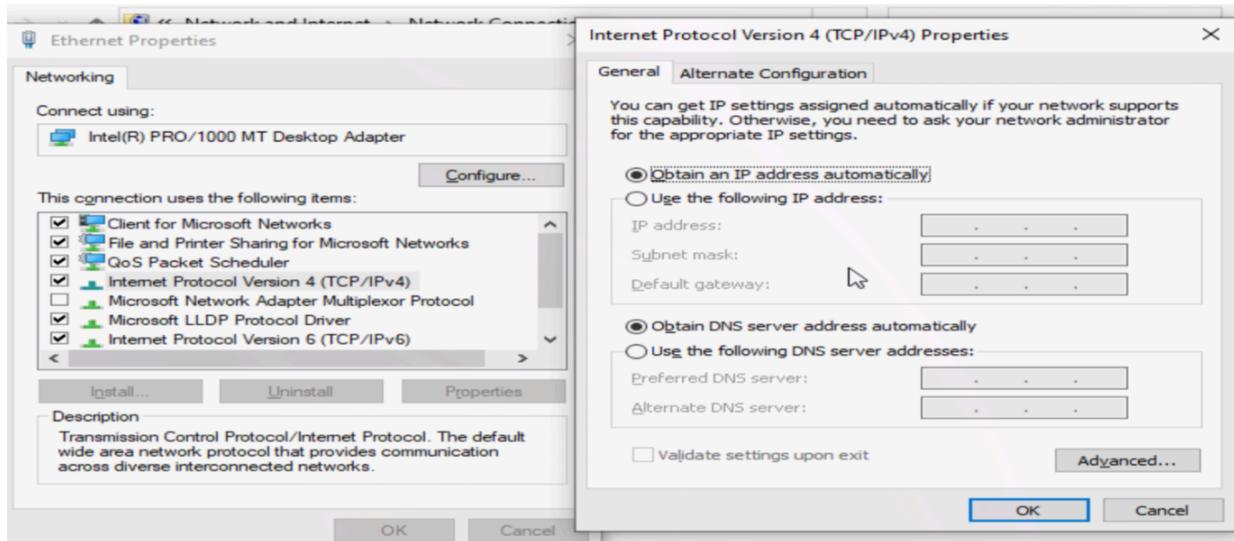
Ethernet adapter Ethernet:

  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

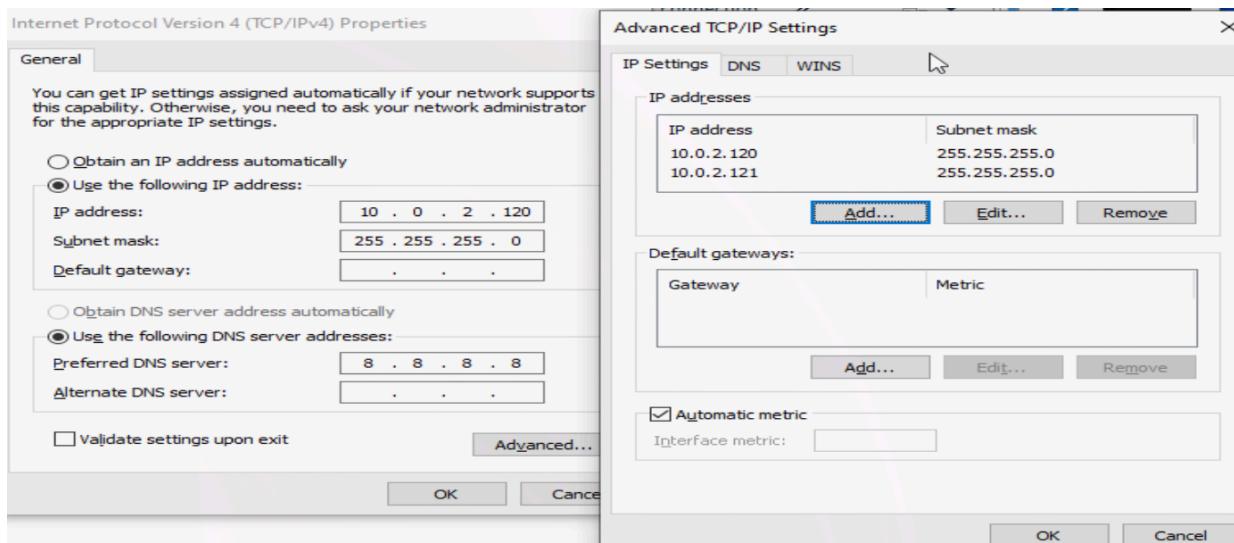
C:\Windows\system32>
```

2. configure ip address

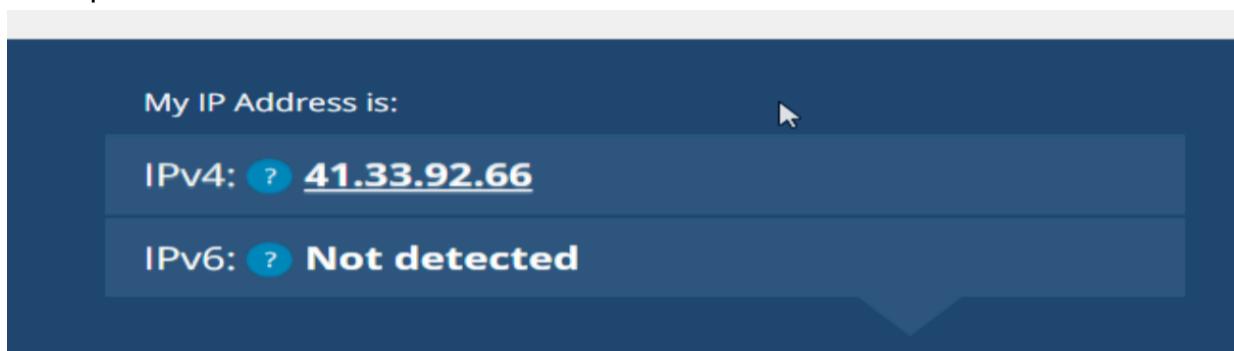
1. manually



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

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=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\Tcpip_{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 10.0.2.15:50342      CLOSE_WAIT
TCP    10.0.2.15:50342      184.25.102.71:443      CLOSE_WAIT
Active Connections: 50343
TCP    10.0.2.15:50344      184.25.102.71:443      CLOSE_WAIT
TCP    10.0.2.15:50345      Foreign Address 43      State WAIT
Proto Local Address 45      98.166.133.184:443      ESTABLISHED
TCP    10.0.2.15:49676      13.107.213.43:443      CLOSE_WAIT
TCP    10.0.2.15:50268      13.107.213.38:443      CLOSE_WAIT
TCP    10.0.2.15:50299      150.171.27.11:443      CLOSE_WAIT
TCP    10.0.2.15:50300      23.196.196.159:80      ESTABLISHED
TCP    10.0.2.15:50329      184.125.102.183:443      CLOSE_WAIT
TCP    10.0.2.15:50338      172.66.12.15:8043      ESTABLISHED
TCP    10.0.2.15:50340      204.79.197.203:80      CLOSE_WAIT
TCP    10.0.2.15:50341      184.125.102.71:443      CLOSE_WAIT
TCP    10.0.2.15:50342      184.125.102.71:443      CLOSE_WAIT
TCP    10.0.2.15:50343      184.125.102.71:443      CLOSE_WAIT
TCP    10.0.2.15:50344      184.125.102.71:443      CLOSE_WAIT
TCP    10.0.2.15:50345      184.125.102.71:443      CLOSE_WAIT
TCP    10.0.2.15:50346      184.125.102.71:443      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

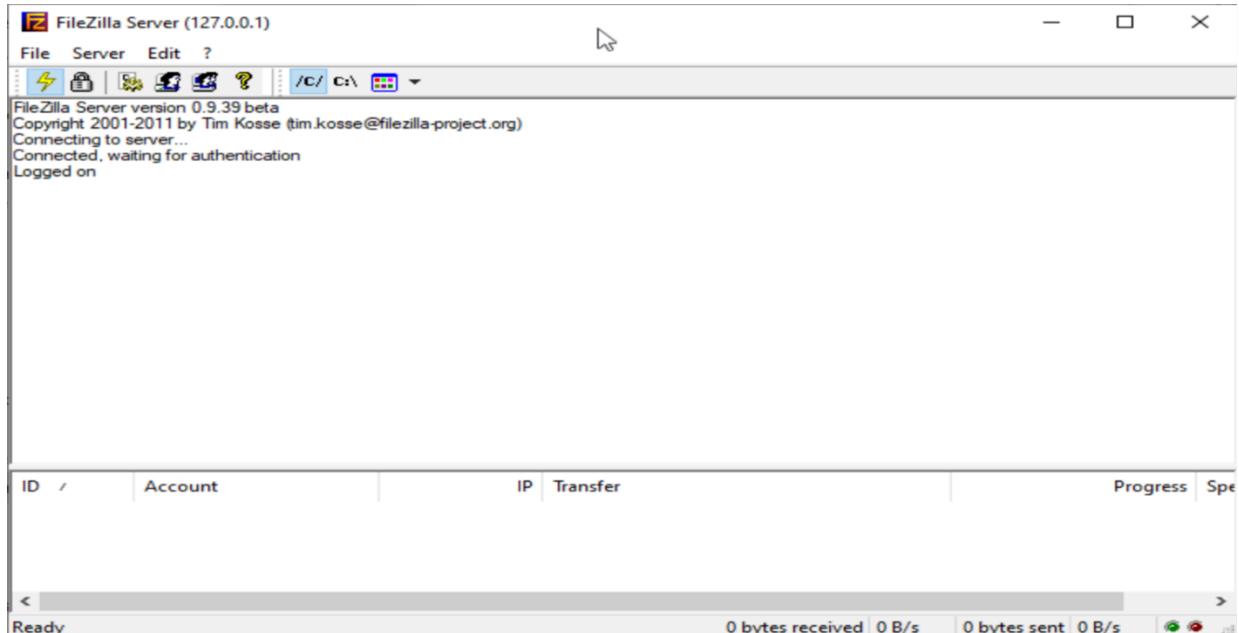
Non-authoritative answer:
Name: google.com
Addresses: 2a00:1450:4006:80e::200e
           142.251.39.174
```

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

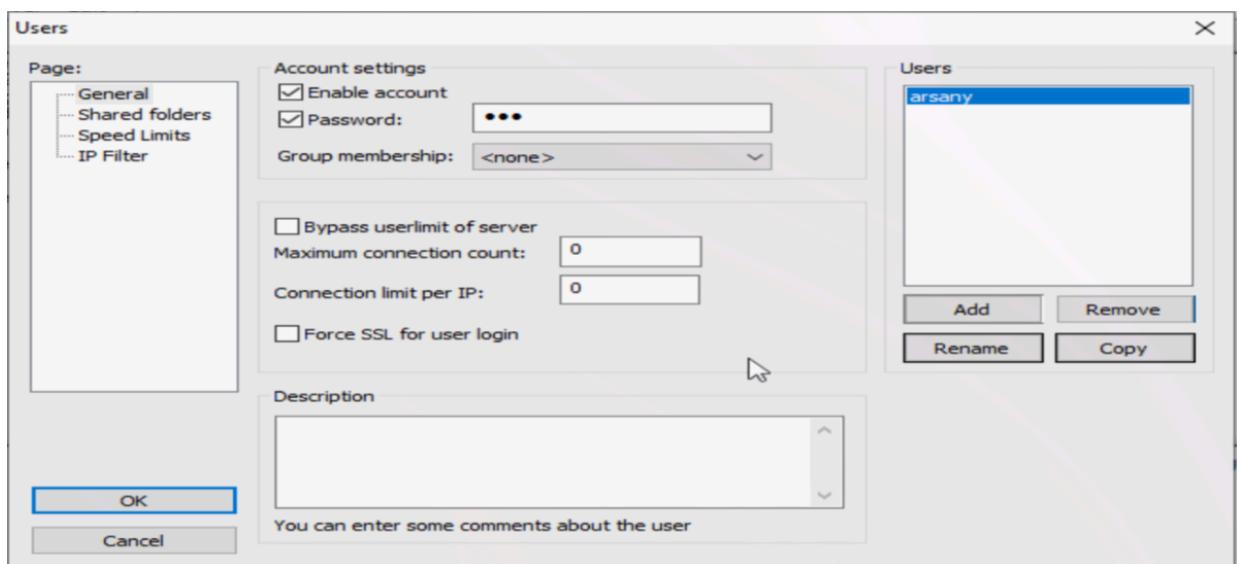
Name: dns.google
Address: 8.8.8.8
```

8. File Zilla Server

1. Server

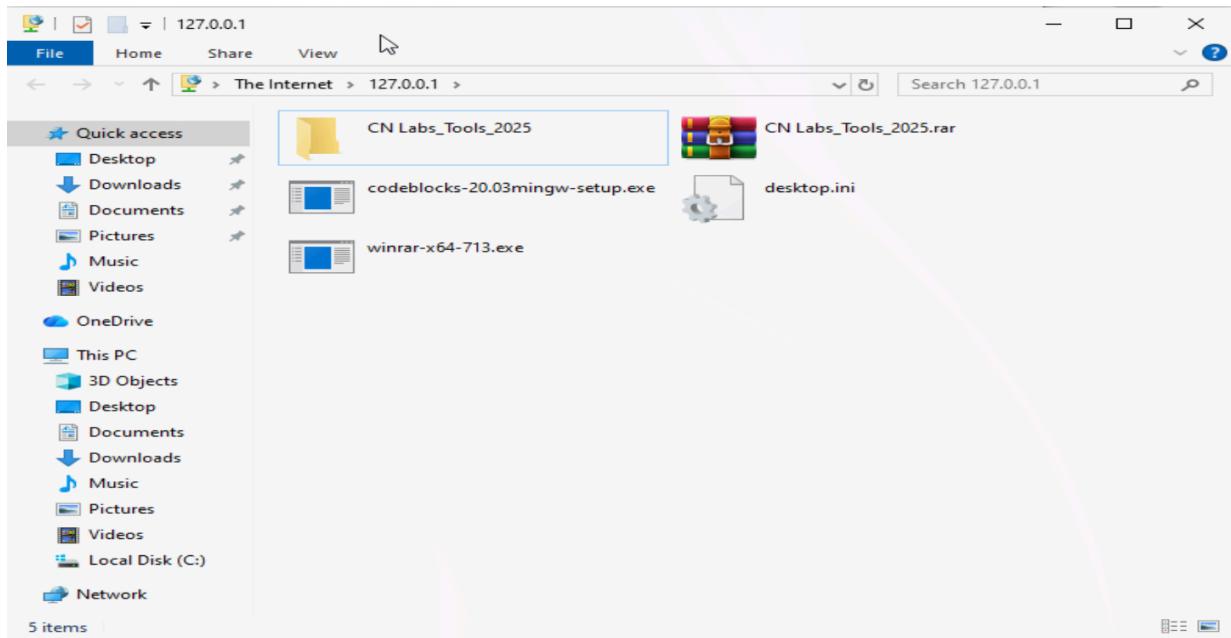


2. Add Users



9. File Zilla Client

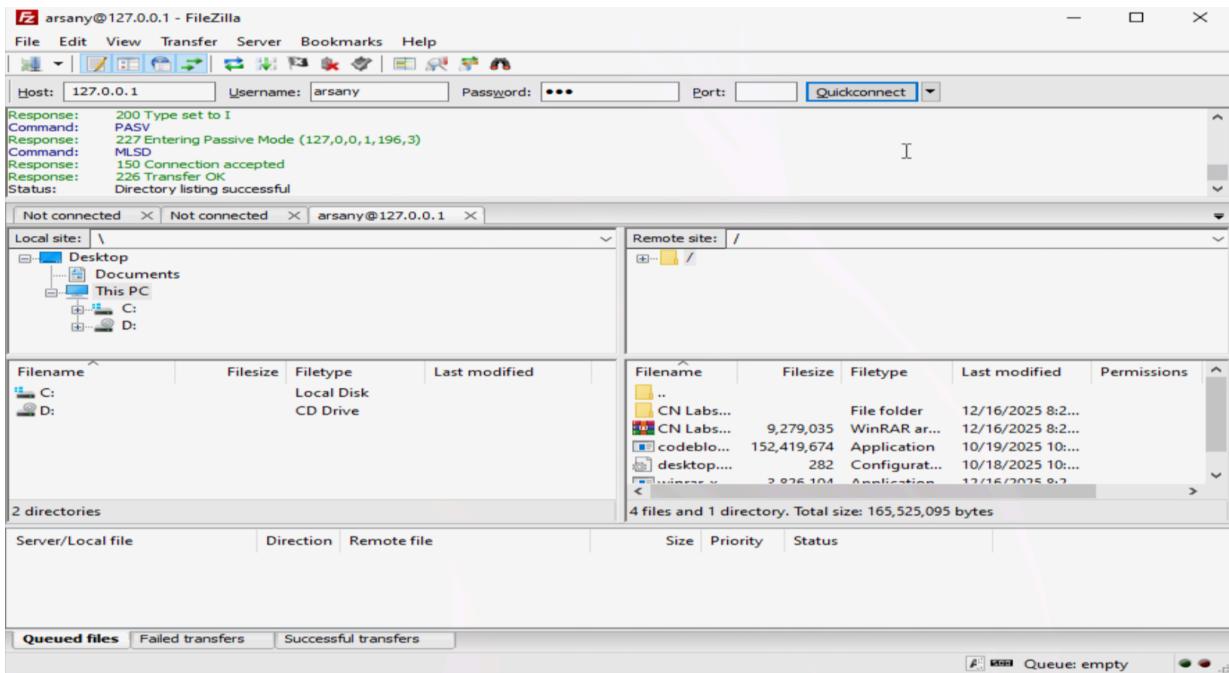
1. File explorer client



2. Ftp from cmd

```
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)): arsany
331 Password required for arsany
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

