

LAB 1
SUBJECT: OSG202
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CLASS: SE1710

1. IPCONFIG command on Windows:

```
C:\WINDOWS\system32\cmd.exe
C:\Users\AGUS>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection 2:

   Media State . . . . . : Media disconnected
   Connection-specific DNS Suffix . : 
Ethernet adapter VirtualBox Host-Only Network #2:

   Connection-specific DNS Suffix . : 
   Link-local IPv6 Address . . . . . : fe80::bd83:ebfe:57c8:eeb5%19
   IPv4 Address. . . . . : 192.168.209.1
   Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . : 
Ethernet adapter VirtualBox Host-Only Network:

   Connection-specific DNS Suffix . : 
   Link-local IPv6 Address . . . . . : fe80::10d9:539a:e0be:f7ad%4
   IPv4 Address. . . . . : 192.168.56.1
   Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . : 
Ethernet adapter Local Area Connection:

   Media State . . . . . : Media disconnected
   Connection-specific DNS Suffix . : 
Wireless LAN adapter Local Area Connection* 9:

   Media State . . . . . : Media disconnected
   Connection-specific DNS Suffix . : 
Wireless LAN adapter Local Area Connection* 10:

   Media State . . . . . : Media disconnected
   Connection-specific DNS Suffix . : 
Ethernet adapter VMware Network Adapter VMnet1:

   Connection-specific DNS Suffix . : 
   Link-local IPv6 Address . . . . . : fe80::354b:7dbf:7365:4fc%33
   IPv4 Address. . . . . : 192.168.111.1
   Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . : 
Ethernet adapter VMware Network Adapter VMnet8:

   Connection-specific DNS Suffix . : 
   Link-local IPv6 Address . . . . . : fe80::d8c9:779:b297:3fd%5
   IPv4 Address. . . . . : 192.168.70.1
   Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . : 
Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix . : 
   IPv6 Address. . . . . : 2402:800:6311:18ee:d7a:96ca:ffbd:26be
   Temporary IPv6 Address . . . . . : 2402:800:6311:18ee:6835:3044:2af9:71ca
   Link-local IPv6 Address . . . . . : fe80::b7a:96ca:ffbd:20be%14
   IPv4 Address. . . . . : 192.168.1.13
   Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . : fe80::1314
```

2. IFCONFIG command on Fedora 11:

```
m@localhost:~$ ifconfig

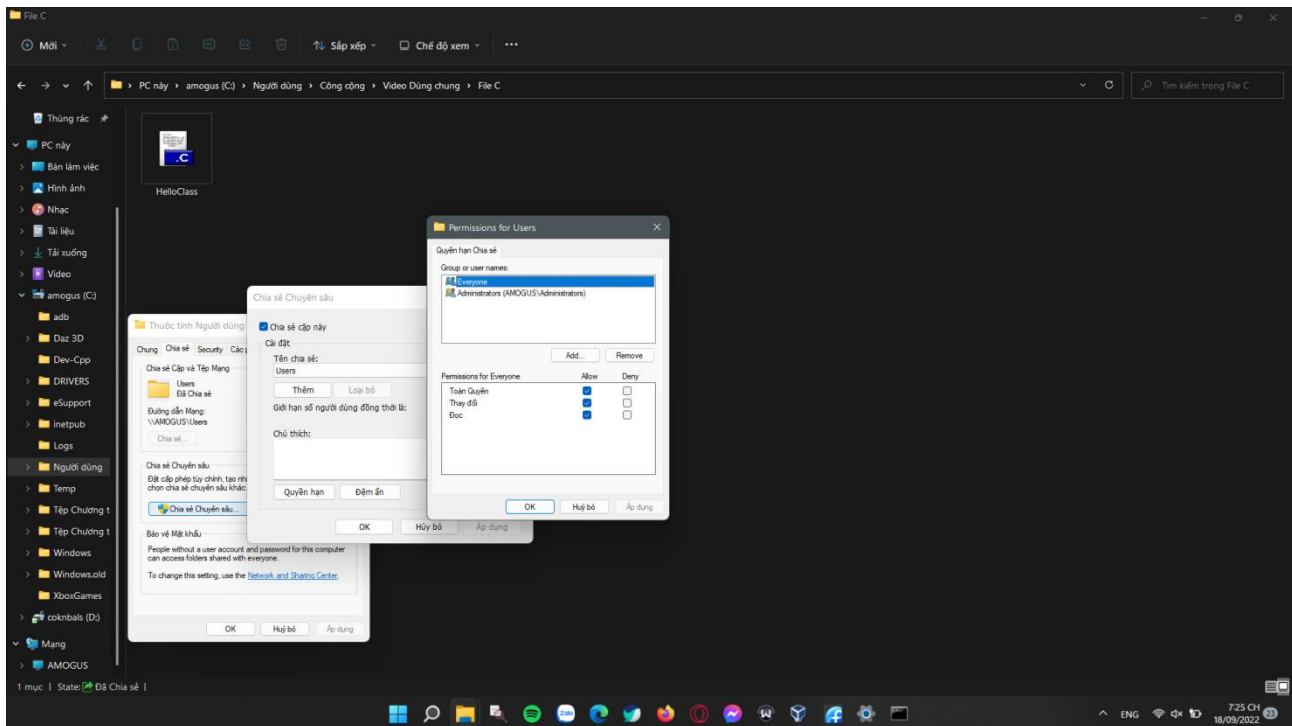
eth0      Link encap:Ethernet  HWaddr 08:00:27:B7:AB:A9
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:feb7:aba9/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:2 errors:0 dropped:0 overruns:0 carrier:0
          TX packets:19 errors:0 dropped:0 overruns:0 frame:0
          collisions:0 txqueuelen:1000
          RX bytes:1180 (1.1 KiB)  TX bytes:5642 (5.5 KiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:124 errors:0 dropped:0 overruns:0 frame:0
          TX packets:124 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:8028 (7.8 KiB)  TX bytes:8028 (7.8 KiB)

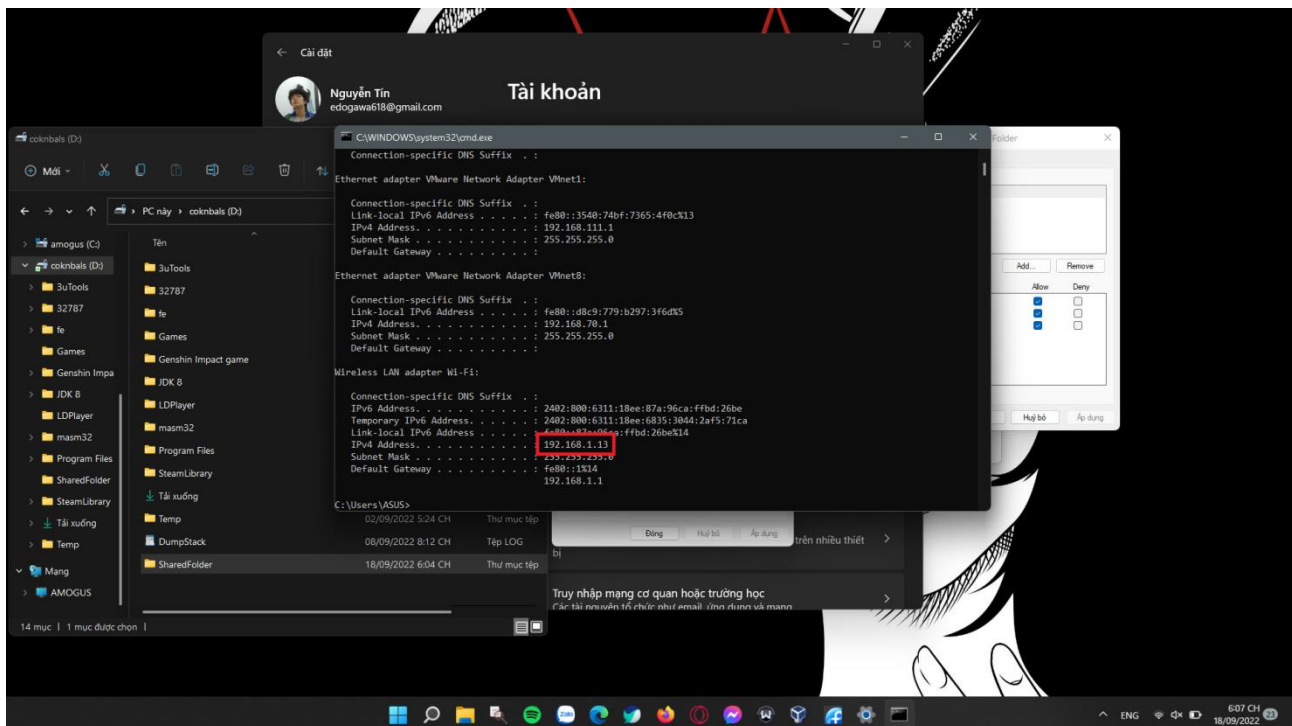
m@localhost:~$
```

3. Sharing files between Windows 11 and Fedora:

First I configure my wanted folder to be sharable on Windows 11



Then I use the ipconfig command within Windows Command Prompt Terminal to find out my device's IPV4:



Now I switch to Fedora, using it's Terminal interface and type in the following command:

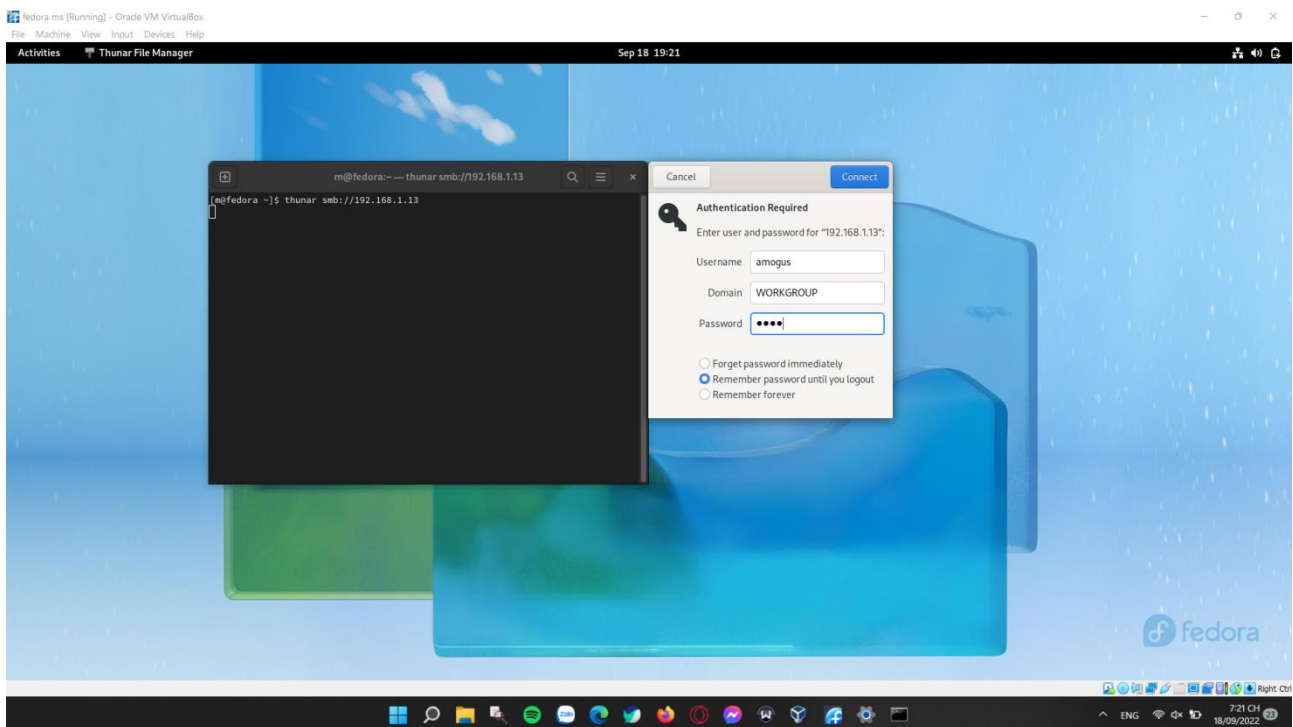
thunar [smb://](#)<Your destination IPV4>

A new window shows up and ask you to fill in some informations.

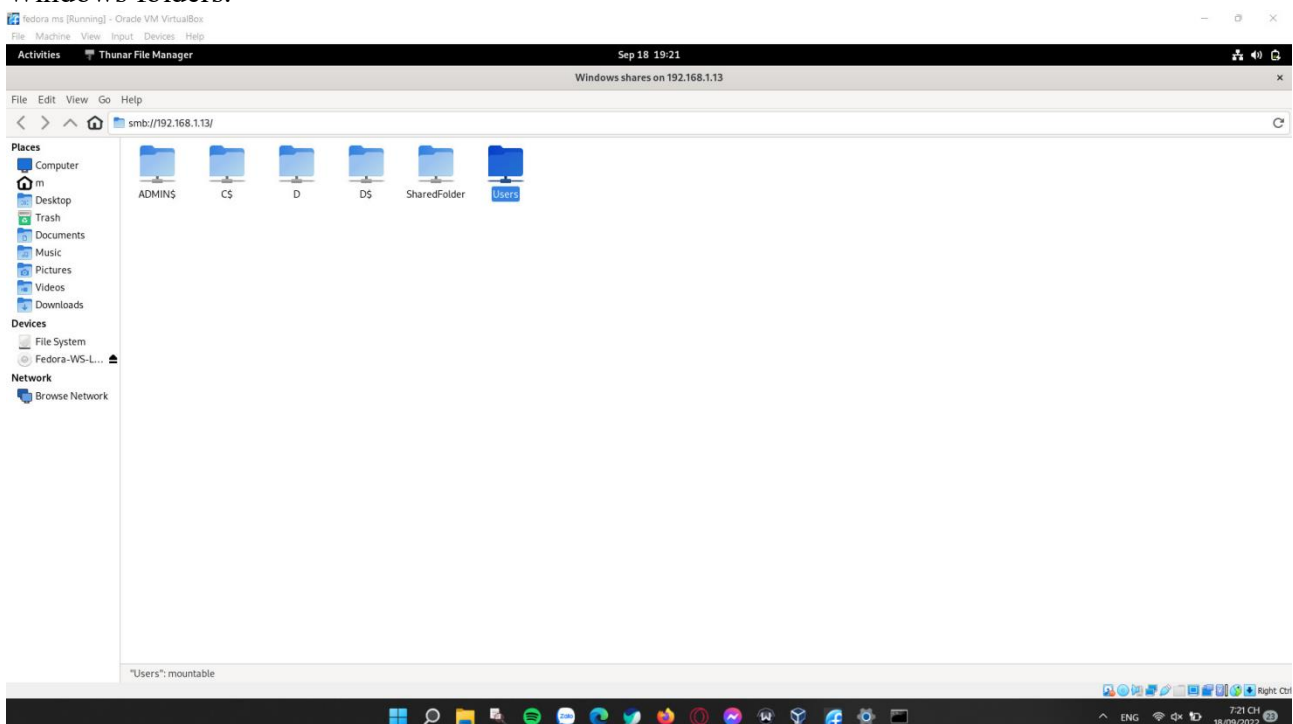
Remember Username being the name of your local user account or your Microsoft account's email whichever being your Windows computer login username.

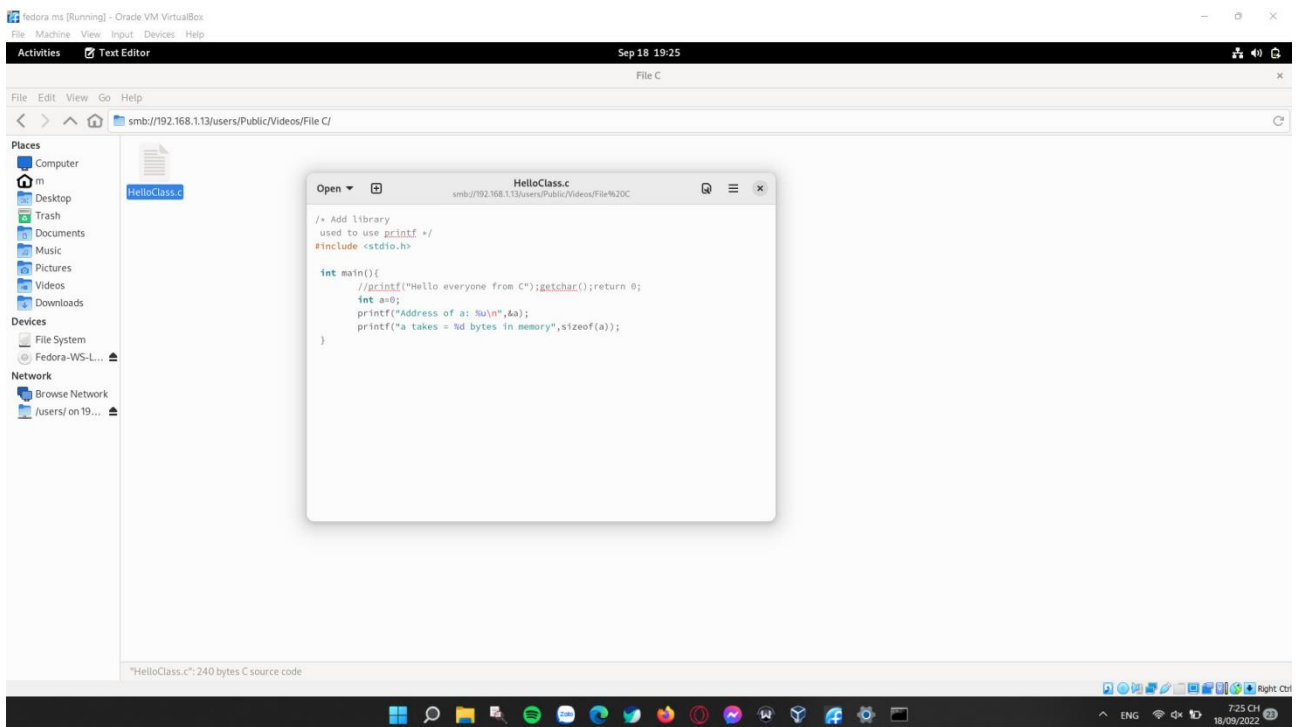
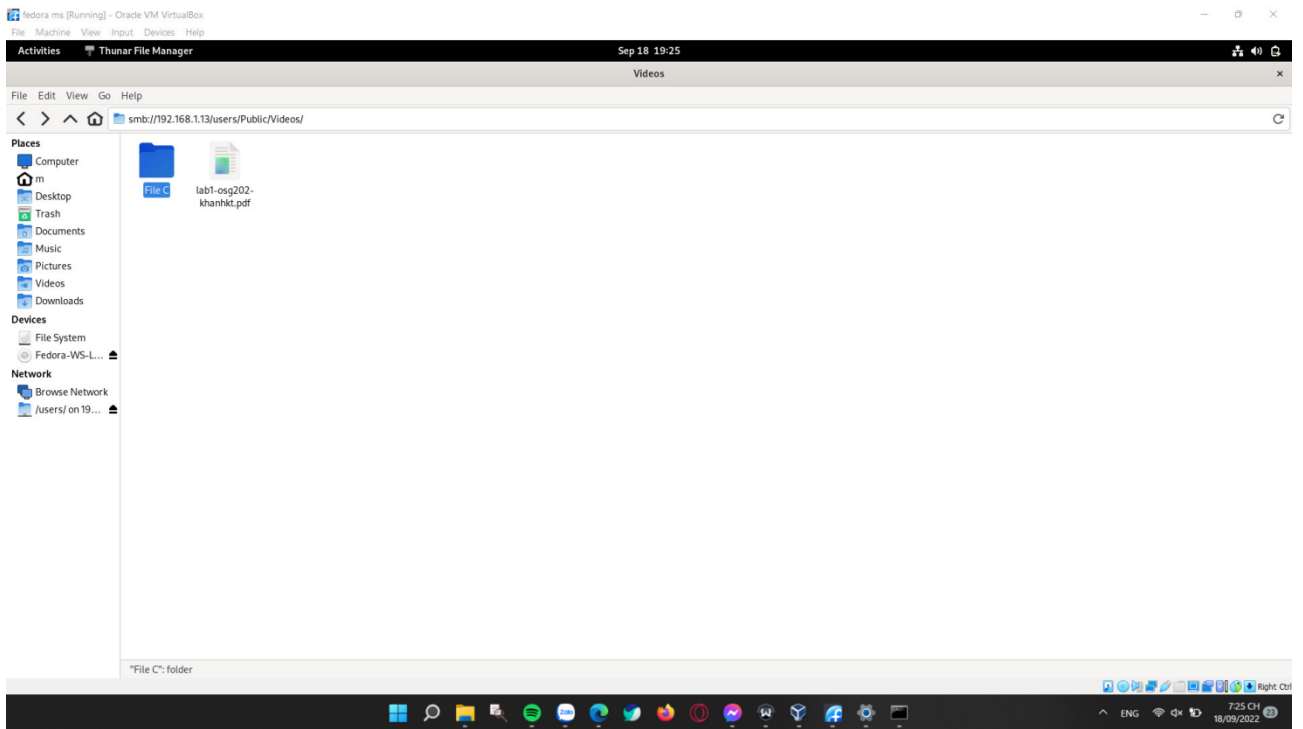
Domain being your Windows workgroup's name, can be found in System Properties.

Password being your Windows computer login password.



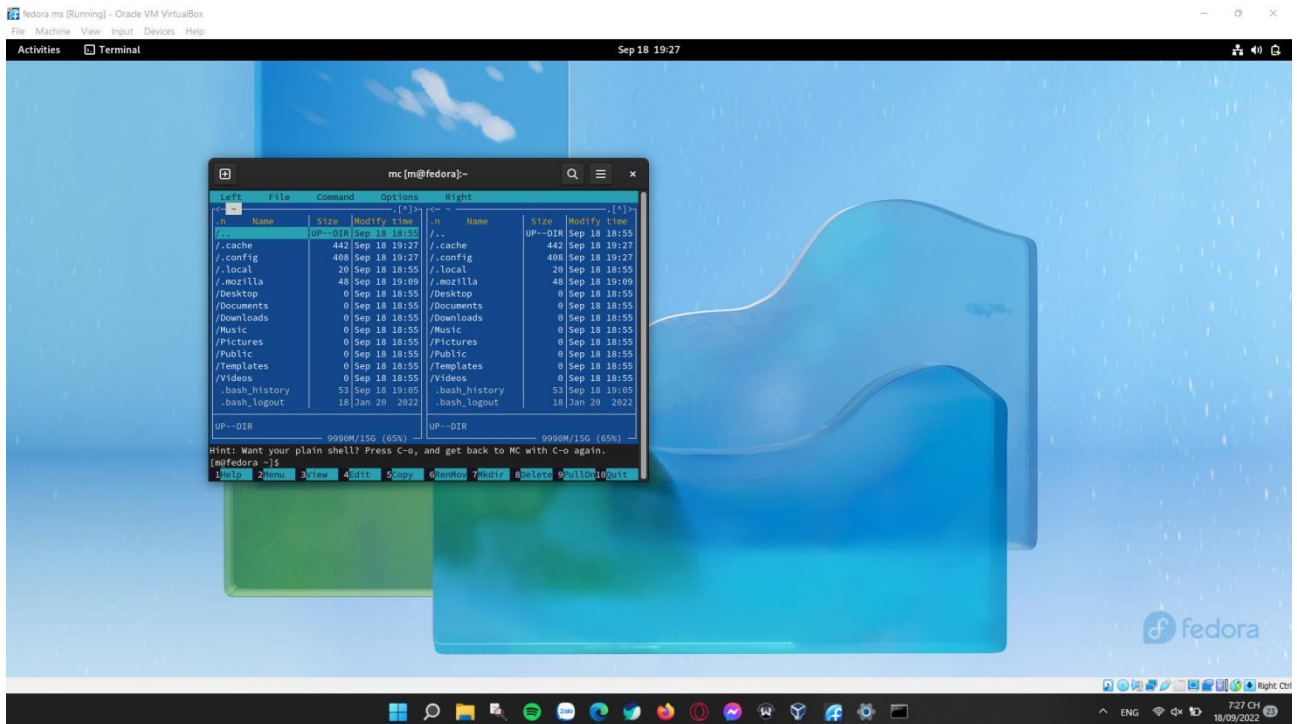
After I fill in all the necessary credentials, a new window pops up and shows me the shared Windows folders.





4. Midnight Commander and F6's function explanation.

MC's interface



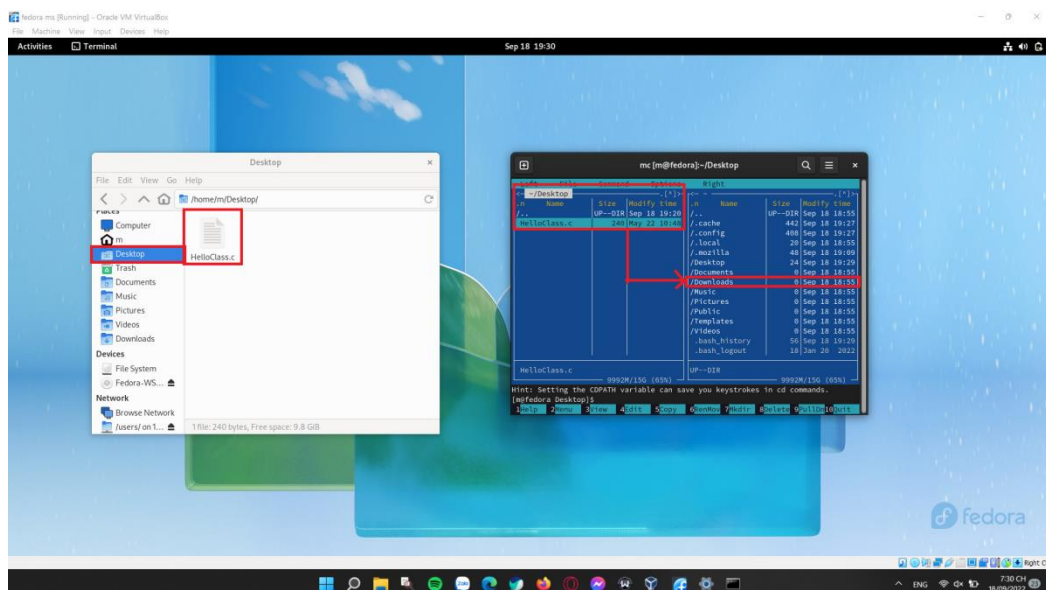
F6 Function

The F6 button helps the user to:

- Move a file or folder from a directory to another.
- Move a file or folder from a directory to another while also changing the file/folder's name.
- Rename a file/folder.

Function demonstration:

To begin, I have a file named "HelloClass.c" at home/m/Desktop and I want to move this file to home/m/Downloads

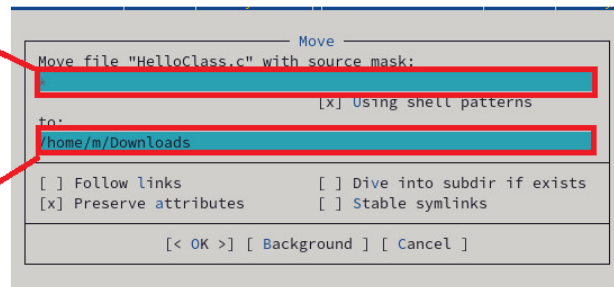


Next, I choose that file on the Midnight Commander (clicking mouse or using arrow keys). Then, I press the F6 key on the keyboard, and a box will appear as below.

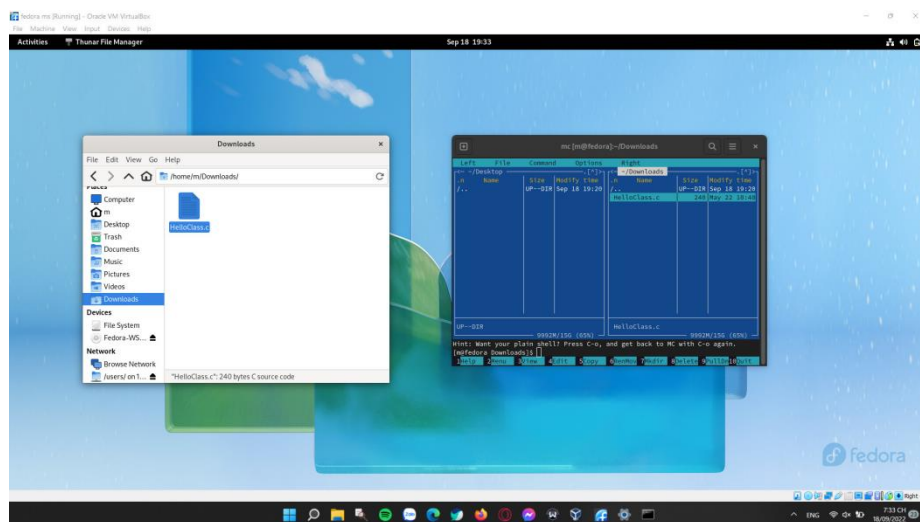


Input your source mask to filter your file

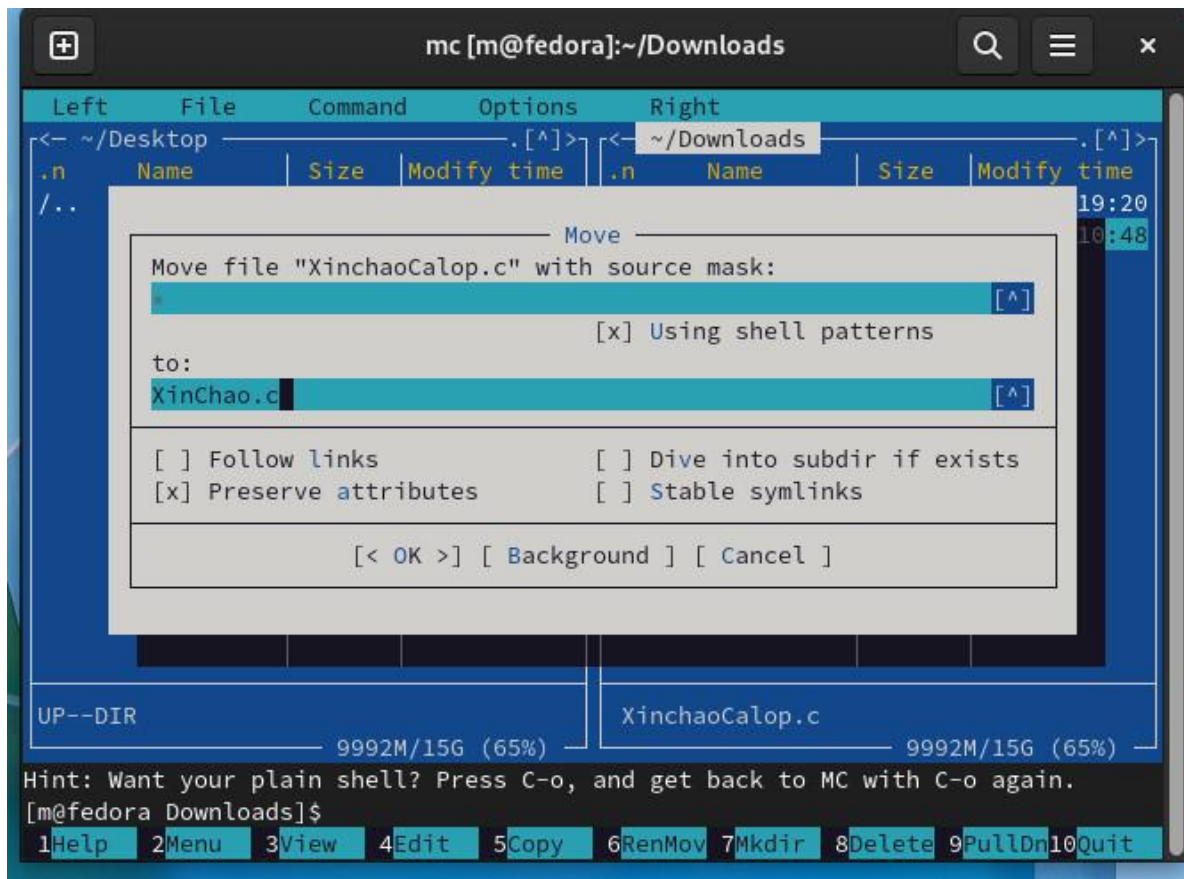
Destination that we want to move the file to or the name of the file/folder that we want to change into



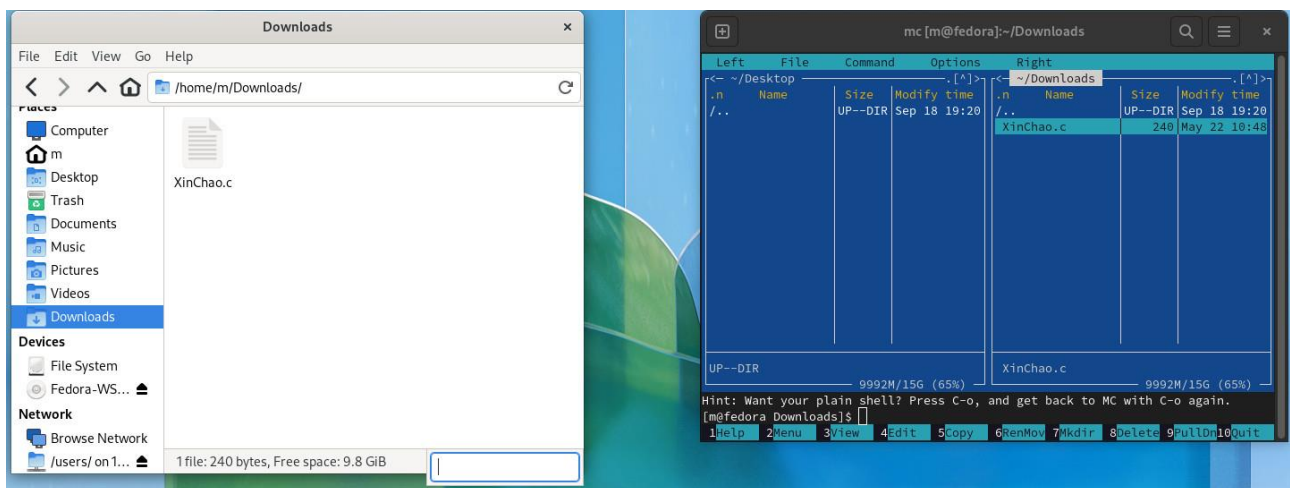
After setting everything, I press Enter. As a result, my file “HelloClass.c” has been moved to the destination.



Now I want to change my file name from “HelloClass.c” to “XinChao.c”. I choose my file in Midnight Commander and press F6. Then I fill in the box as below:



Then press Enter, and I have my result, the file name has been changed from “HelloClass.c” to “XinChao.c”



5. Compile C program with Fedora's Terminal

The program I wrote will print out on the screen with the text "Hello everyone from C"

