

WORKSHOP ADMINISTRASI JARINGAN

PERTEMUAN 6 MINGGU 6

SambaServer



VRAYOGA LOREANSA

3122522005

TEKNIK INFORMATIKA

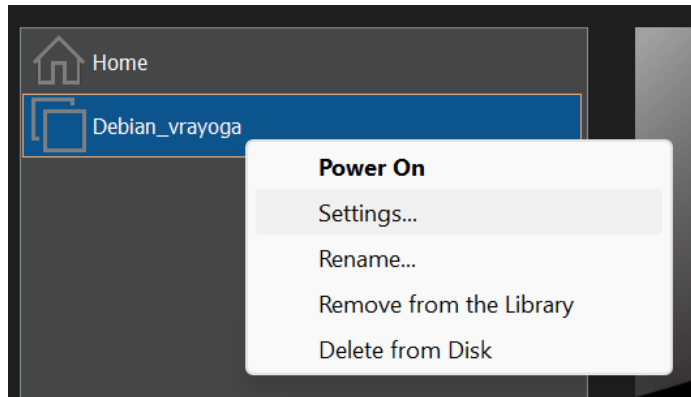
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

PENS PSDKU SUMENEP

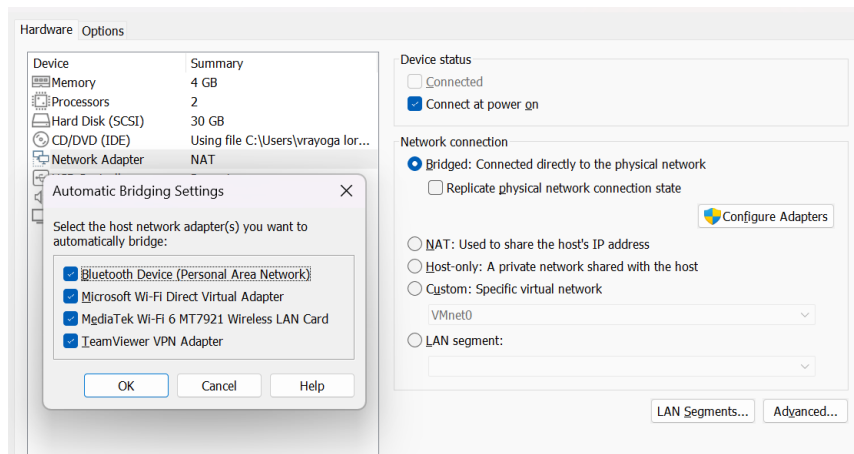
D3 TEKNIK INFORMATIKA

SambaServer

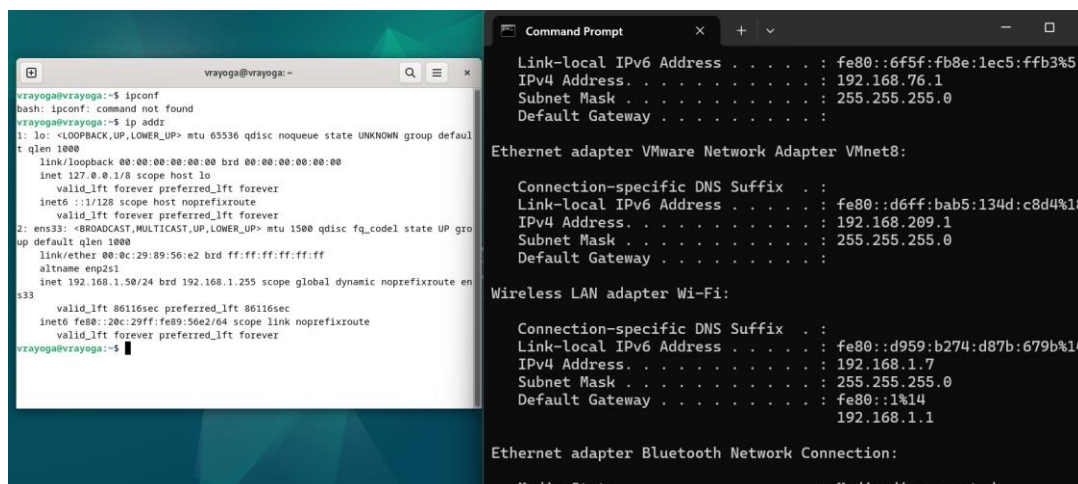
1. Pertama tama kita ubah terlebih dahulu untuk bagian jaringan yang berada di vmware,jadi kita buka vmware terlebih dahulu,lalu klik kanan dan pergi ke setting



Setelah masuk kedalam setting cari network adapter dan sesuaikan dengan gambar dibawah dan save lalu restart debian/linux kalian



2. Setelah masuk kita cek di terminal linux dan terminal windows jika alamat ip sudah benar maka langkah kalian sudah benar



3. Setelah itu kita cobak ping dari terminal(windows) ke terminal (linux) dan hasilnya akan seperti ini

```
vrayoga@vrayoga:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UP qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:0c:29:89:56:e2 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.1.50/24 brd 192.168.1.255 scope global dynamic ens33
        valid_lft 86116sec preferred_lft 86116sec
    inet6 fe80::20c:29ff:fe89:56e2/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
vrayoga@vrayoga:~$ ping 192.168.1.7
PING 192.168.1.7 (192.168.1.7) 56(84) bytes of data:
^C
--- 192.168.1.7 ping statistics ---
19 packets transmitted, 0 received, 100% packet loss, time 0.000 ms
```

```
Default Gateway . . . . . : fe80::1%14
                             192.168.1.1

Ethernet adapter Bluetooth Network Connection:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix  . :

C:\Users\vrayoga loreansa>ping 192.168.1.50

Pinging 192.168.1.50 with 32 bytes of data:
Reply from 192.168.1.50: bytes=32 time<1ms TTL=64
Reply from 192.168.1.50: bytes=32 time<1ms TTL=64
Reply from 192.168.1.50: bytes=32 time<1ms TTL=64
Reply from 192.168.1.50: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.50:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\vrayoga loreansa>
C:\Users\vrayoga loreansa>
```

4. Lalu setelah saling connect kita apt update terlebih dahulu,dan install samba

```
root@vrayoga:~# apt update
Hit:1 http://deb.debian.org/debian bookworm InRelease
Hit:2 http://security.debian.org/debian-security bookworm-security InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Reading package lists... Done

root@vrayoga:~# apt install samba
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
```

Jika sudah menginstal samba kita cek versi samba

```
root@vrayoga:~# smbstatus --version
Version 4.17.12-Debian
root@vrayoga:~# S
```

5. Setelah itu kita copy terlebih dahulu dan konfigurasi samba server,dan masuk ke nano untuk setting

```
root@vrayoga:~# cp /etc/samba/smb.conf /etc/samba/smb.conf.orig
root@vrayoga:~# nano /etc/samba/smb.conf
```

Lalu saat masuk kedalam smb.conf kita dibagian bawah read only awalan yes ganti ke no dan save

```
GNU nano 7.2 /etc/samba/smb.conf *
# printer drivers
[printers]
    comment = Printer Drivers
    path = /var/lib/samba/printers
    browseable = yes
    read only = no
    guest ok = no
# Uncomment to allow remote administration of Windows print drivers.
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[share]
    path = /media/samba/testing
    browseable = yes
    read only = No
    valid users = @sambauser

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

6. Test konfigurasi samba

```
root@vrayoga:/etc/samba# testparm
Load smb config files from /etc/samba/smb.conf
Loaded services file OK.
Weak crypto is allowed by GnuTLS (e.g. NTLM as a compatibility fallback)

Server role: ROLE_STANDALONE

Press enter to see a dump of your service definitions

# Global parameters
[global]
    log file = /var/log/samba/log.%m
    logging = file
    map to guest = Bad User
    max log size = 1000
    obey pam restrictions = Yes
    pam password change = Yes
    panic action = /usr/share/samba/panic-action %d
    passwd chat = *Enter\snew\s*\spassword:* %n\n *Retype\snew\s*\spassword:
* %n\n *password\supdated\ssuccessfully* .
    passwd program = /usr/bin/passwd %u
    server role = standalone server
    unix password sync = Yes
    usershare allow guests = Yes
```

```
vrayoga@vrayoga: ~  
  
create mask = 0700  
directory mask = 0700  
valid users = %S  
  
[printers]  
    browseable = No  
    comment = All Printers  
    create mask = 0700  
    path = /var/tmp  
    printable = Yes  
  
[print$]  
    comment = Printer Drivers  
    path = /var/lib/samba/printers  
    read only = No  
  
[share]  
    path = /media/samba/testing  
    read only = No  
    valid users = @sambauser  
root@vrayoga:/media/samba# S
```

7. Setelah itu kita menambah user terlebih dahulu

```
root@vrayoga:/etc/samba# adduser yoga  
Adding user `yoga' ...  
Adding new group `yoga' (1001) ...  
Adding new user `yoga' (1001) with group `yoga (1001)' ...  
Creating home directory `/home/yoga' ...  
Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for yoga  
Enter the new value, or press ENTER for the default  
    Full Name []:  
    Room Number []:  
    Work Phone []:  
    Home Phone []:  
    Other []:  
Is the information correct? [Y/n] y  
Adding new user `yoga' to supplemental / extra groups `users' ...  
Adding user `yoga' to group `users' ...  
root@vrayoga:/etc/samba#
```

8. Lalu buat password samba

```
root@vrayoga:/etc/samba# smbpasswd -a yoga
New SMB password:
Retype new SMB password:
Added user yoga.
root@vrayoga:/etc/samba#
```

9. Setelah itu kita bikin group dan sudah membuat grup kita tambah user yoga tadi masukkan kedalam sambauser

```
root@vrayoga:/etc/samba# addgroup sambauser
Adding group `sambauser' (GID 1002) ...
Done.
```

10. Lalu kita buat direktori untuk melakukan share data, setelah mkdir kita masuk kedalam data yang sudah kita buat

```
root@vrayoga:/etc/samba# mkdir /media/samba
root@vrayoga:/etc/samba# mkdir /media/samba/testing
root@vrayoga:/etc/samba# cd /media/samba

root@vrayoga:/media/samba# chown yoga1:sambauser testing
root@vrayoga:/media/samba# ls -l
total 4
drwxrwx--- 2 yoga1 sambauser 4096 May 22 21:15 testing
root@vrayoga:/media/samba#
```

Lalu ubah ownership. User ownership adalah yoga, group ownership adalah sambauser

```
root@vrayoga:/etc/samba# usermod -a -G sambauser yoga1
root@vrayoga:/etc/samba# id yoga1
uid=1003(yoga1) gid=1003(yoga1) groups=1003(yoga1),100(users),1002(sambauser)
root@vrayoga:/etc/samba#
```

11. Kita akan ganti agar user dan group boleh melakukan read, write dan execute pada direktory testing. 770 berarti : user dan group = read, write dan execute

```
root@vrayoga:/media/samba# chmod 770 testing
root@vrayoga:/media/samba# ls -l
total 4
drwxrwx--- 2 yoga1 sambauser 4096 May 22 21:15 testing
```

12. Restart samba setelah itu

```
vrayoga@vrayoga: ~  
root@vrayoga:/media/samba# chmod 770 testing  
root@vrayoga:/media/samba# ls -l  
total 4  
drwxrwx--- 2 yoga sambauser 4096 May 22 21:15 testing  
root@vrayoga:/media/samba# systemctl restart smbd  
root@vrayoga:/media/samba# systemctl status smbd  
● smbd.service - Samba SMB Daemon  
   Loaded: loaded (/lib/systemd/system/smbd.service; enabled; preset: enabled)  
   Active: active (running) since Wed 2024-05-22 21:26:55 WIB; 11s ago  
     Docs: man:smbd(8)  
           man:samba(7)  
           man:smb.conf(5)  
  Process: 5837 ExecCondition=/usr/share/samba/is-configured smb (code=exited)  
  Process: 5840 ExecStartPre=/usr/share/samba/update-apparmor-samba-profile (2  
 Main PID: 5849 (smbd)  
    Status: "smbd: ready to serve connections..."  
   Tasks: 3 (limit: 4590)  
  Memory: 5.3M  
     CPU: 147ms  
   CGroup: /system.slice/smbd.service  
           └─5849 /usr/sbin/smbd --foreground --no-process-group  
             └─5851 /usr/sbin/smbd --foreground --no-process-group  
               └─5852 /usr/sbin/smbd --foreground --no-process-group
```

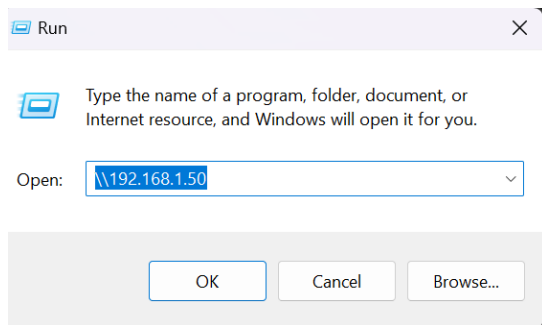
13. Lalu install smbclient

```
root@vrayoga:/media/samba# apt install cifs-utils smbclient  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  kevinutils
```

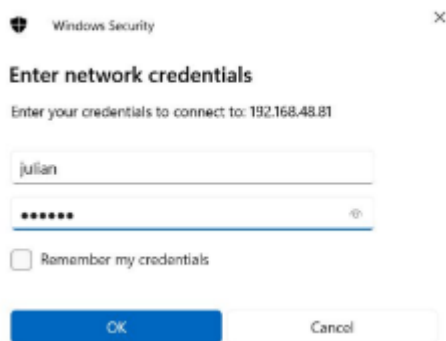
14. Setelah itu kita testing samba client

```
root@vrayoga:/media/samba# smbclient '\\localhost\share' -U yoga1  
Password for [WORKGROUP\yoga1]:  
Try "help" to get a list of possible commands.  
smb: \>  
smb: \> help  
?  
allinfo      altname      archive      backup  
blocksize    cancel        case_sensitive cd            chmod  
chown        close        del          deltree      dir  
du           echo         exit         get          getfacl  
geteas       hardlink     help         history      iosize
```

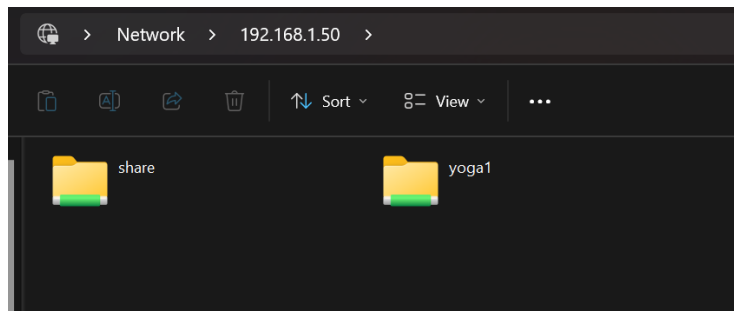
15. Lalu saat sudah menyetting semua nya kita pergi ke search di windows cari run dan masukkan ip yang ada di linux untuk mengetahui ipnya kita liat di cmd linux mengetik ip addr



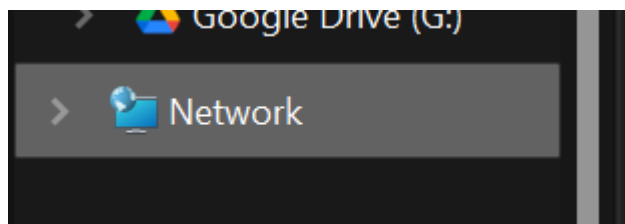
Dan apabila tampilan seperti ini masukkan user di debian dan password yang kalian buat tadi,tadi saya buat user yoga1





Dan masuk seperti ini



16. Klik kanan di network,lalu pilih map network drive



17. Lalu isi sesuai dengan ip kalian di linux berikan tampilan seperti ini lalu finish

  Map Network Drive

What network folder would you like to map?

Specify the drive letter for the connection and the folder that you want to connect to:

Drive:

Z:

Folder:

\\192.168.1.50\share

Browse...

Example: \\server\share

☒ Reconnect at sign-in


☐ Connect using different credentials


[Connect to a Web site that you can use to store your documents and pictures.](#)



Finish

Cancel

Lalu isi file dan folder seperti ini

 > This PC > share (\\192.168.1.50) (Z:)



Name	Date modified	Type	Size
 yoga folder	22/05/2024 22:46	File folder	
 yoga-file	22/05/2024 22:46	Text Document	0 KB

Samba Server ⇔ Samba Client (Linux)

1. Untuk praktikum selanjutnya kita langsung saja membuat user baru lagi seperti sebelumnya

```
root@vrayoga:~# adduser loreansa
Adding user `loreansa' ...
Adding new group `loreansa' (1004) ...
Adding new user `loreansa' (1004) with group `loreansa (1004)' ...
Creating home directory `/home/loreansa' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for loreansa
Enter the new value, or press ENTER for the default
    Full Name []: loreansa
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] ty
Is the information correct? [Y/n] y
Adding new user `loreansa' to supplemental / extra groups `users' ...
Adding user `loreansa' to group `users' ...
root@vrayoga:~# id loreansa
uid=1004(loreansa) gid=1004(loreansa) groups=1004(loreansa),100(users)
root@vrayoga:~# smbpasswd -a loreansa
New SMB password:
Retype new SMB password:
Added user loreansa.
```

2. Langkah selanjutnya kalian membuat direktori (untuk user yoga adalah hasil dari percobaan pertama, di percobaan pertama kita sudah disuruh membuat user)

```
root@vrayoga:~# mkdir /media/samba/temp
root@vrayoga:~# mkdir /media/samba/sambauser
-bash: mkdir: command not found
root@vrayoga:~# mkdir /media/samba/sambauser
root@vrayoga:~# mkdir /media/samba/loreansa
-bash: mkdir: command not found
root@vrayoga:~# mkdir /media/samba/loreansa
root@vrayoga:~# mkdir /media/samba/yoga
root@vrayoga:~#
```

3. Lalu next mengubah ownership user dan grup

```
root@vrayoga:~# mkdir /media/samba/loreansa
root@vrayoga:~# mkdir /media/samba/yoga
root@vrayoga:~# chown root:sambauser /media/samba/temp
root@vrayoga:~# chown root:sambauser /media/samba/sambauser
root@vrayoga:~# chown yoga:yoga /media/samba/yoga
root@vrayoga:~# chown loreansa:loreansa /media/samba/yoga
root@vrayoga:~#
```

Mengubah hak akses agar bisa diakses client linux

```
root@vrayoga:~# chmod -R 777 /media/samba/
root@vrayoga:~# ls -l /media/samba/
total 20
drwxrwxrwx 2 root      root      4096 May 24 17:27 loreansa
drwxrwxrwx 2 root      sambauser 4096 May 24 17:26 sambauser
drwxrwxrwx 2 root      sambauser 4096 May 24 17:26 temp
drwxrwxrwx 3 yoga1     sambauser 4096 May 22 22:50 testing
drwxrwxrwx 2 loreansa loreansa  4096 May 24 17:27 yoga
root@vrayoga:~#
```

4. Lalu kita akan mengonfigurasi samba server

```
root@vrayoga:~# nano /etc/samba/smb.conf
```

Di dalam file tersebut tambah seperti ini

```
# Allow users who've been granted usershare privileges to create
# public shares, not just authenticated ones
usershare allow guests = yes

client min protocol = NT1

#===== Share Definitions =====
```

Dan dibagian bawah di share matikan dengan beri tanda #

```
#[share]
#   path = /media/samba/testing
#   browseable = yes
#   read only = No
#   valid users = @sambauser

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

Setelah dimatikan tambahkan kode ini dibawah

```
GNU nano 7.2 /etc/samba/smb.conf
# valid users = @smbauser

[tmp]
    path = /media/samba/temp
    browseable = yes
    read only = yes
    guest ok = yes

[smbauser]
    path = /media/samba/smbauser
    browseable = yes
    read only = no
    valid users = @smbauser

[user]
    path = /media/samba/%U
    browseable = no
    read only = no
    valid users = %U
```

Setelah itu ketikan testparm untuk melihat hasil konfigurasinya

```
read only = No

[tmp]
    guest ok = Yes
    path = /media/samba/temp

[smbauser]
    path = /media/samba/smbauser
    valid users = @smbauser

[user]
    browseable = No
    path = /media/samba/%U
    read only = No
    valid users = %U
root@vrayoga:~#
```

5. Lalu kita restart samba server

```
root@vrayoga:~# systemctl restart smb
root@vrayoga:~# systemctl status smb
● smbd.service - Samba SMB Daemon
   Loaded: loaded (/lib/systemd/system/smbd.service; enabled; preset: enabled)
   Active: active (running) since Fri 2024-05-24 17:45:25 WIB; 8s ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
```

Coba kita test dengan smbclient untuk 3 folder [tmp], [sambauser], [yoga] dan loreansa, Untuk folder, milik user, yoga dan loreansa berhasil masuk ke foldernya masing-masing

```
root@vrayoga:/media/samba# smbclient '\\localhost\yoga' -U yoga
Password for [WORKGROUP\yoga]:
Try "help" to get a list of possible commands.
smb: \> exit
root@vrayoga:/media/samba#
```

```
root@vrayoga:/media/samba# smbclient '\\localhost\loreansa' -U loreansa
Password for [WORKGROUP\loreansa]:
session setup failed: NT_STATUS_LOGON_FAILURE
root@vrayoga:/media/samba# smbclient '\\localhost\loreansa' -U loreansa
Password for [WORKGROUP\loreansa]:
Try "help" to get a list of possible commands.
smb: \> exit
root@vrayoga:/media/samba#
```

Folder tmp dapat diakses oleh yoga, Loreansa dan guest

```
root@vrayoga:/media/samba# smbclient '\\localhost\tmp' -U yoga
Password for [WORKGROUP\yoga]:
Try "help" to get a list of possible commands.
smb: \> exit
root@vrayoga:/media/samba# smbclient '\\localhost\tmp' -U loreansa
Password for [WORKGROUP\loreansa]:
Try "help" to get a list of possible commands.
smb: \> exit
root@vrayoga:/media/samba#
```

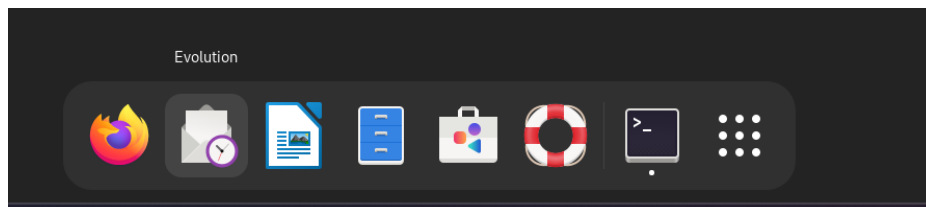
Folder sambauser hanya dapat diakses oleh anggota grup sambauser, yaitu yoga(yoga sudah dimasukkan ke dalam grup dalam percobaan 1 tadi).sedangkan User loreansa dan guest tidak dapat mengakses folder tersebut

```
root@vrayoga:/media/samba# smbclient '\\localhost\sambauser' -U yoga
Password for [WORKGROUP\yoga]:
Try "help" to get a list of possible commands.
smb: \> exit
root@vrayoga:/media/samba# smbclient '\\localhost\sambauser' -U loreansa
Password for [WORKGROUP\loreansa]:
tree connect failed: NT_STATUS_ACCESS_DENIED
root@vrayoga:/media/samba# smbclient '\\localhost\sambauser' -U
Password for [WORKGROUP\root]:
tree connect failed: NT_STATUS_ACCESS_DENIED
root@vrayoga:/media/samba#
```

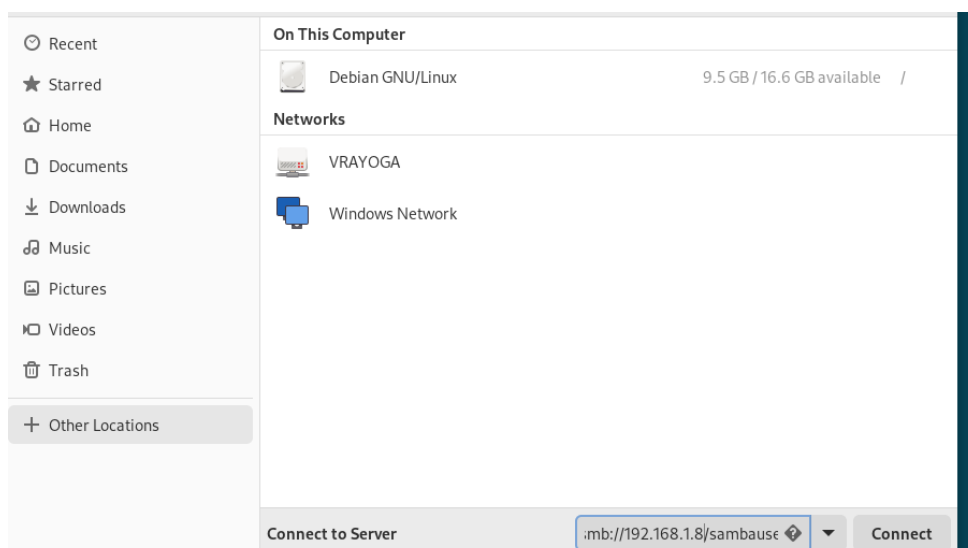
Masuk ke dalam temp terlebih dahulu dan buat directory seperti ini

```
root@vrayoga:/media/samba# cd temp
root@vrayoga:/media/samba/temp# mkdir tempdir
root@vrayoga:/media/samba/temp# touch tmp1 tmp2
root@vrayoga:/media/samba/temp#
```

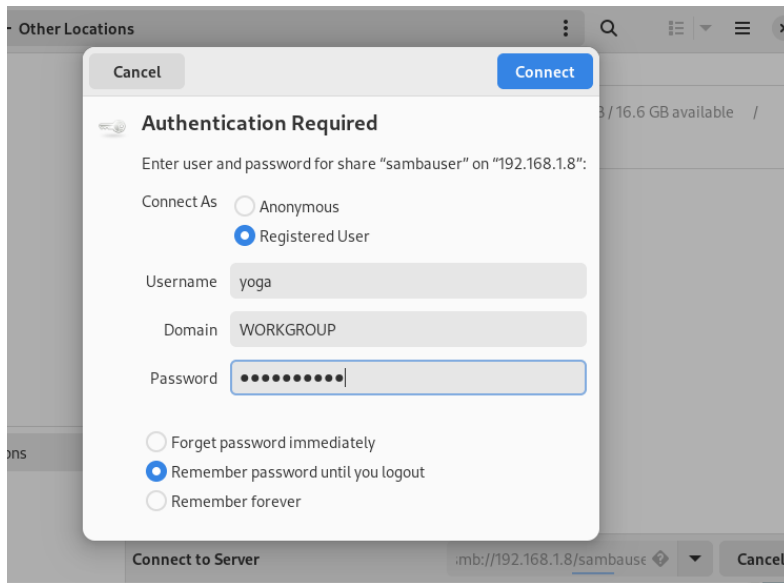
6. Lalu kita akan mencoba samba client untuk akses server,pertama tama kita pergi ke file yang berada di linux



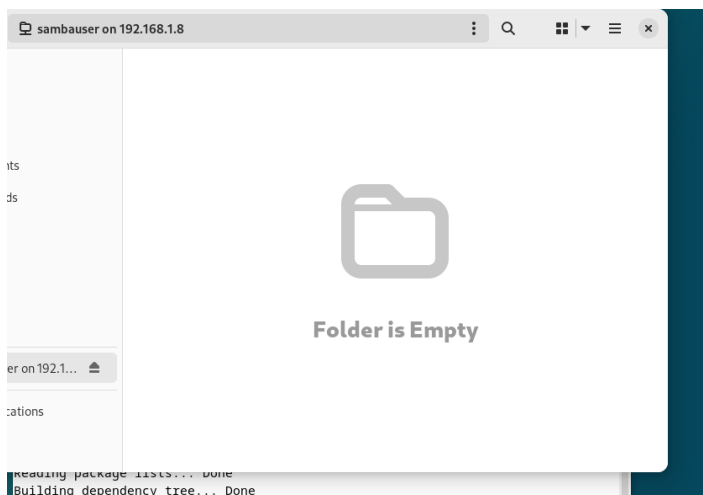
Lalu masukkan alamat ip di linux sama seperti percobaan1 kalian,jika alamat ip kalian berubah silahkan cek kembali di ip addr pada linux



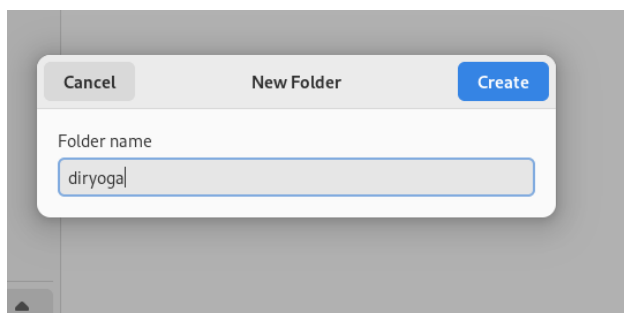
Lalu masukkan user dan password yang sudah kita buat tadi (saya memakai user pertama yang berada di percobaan atas)

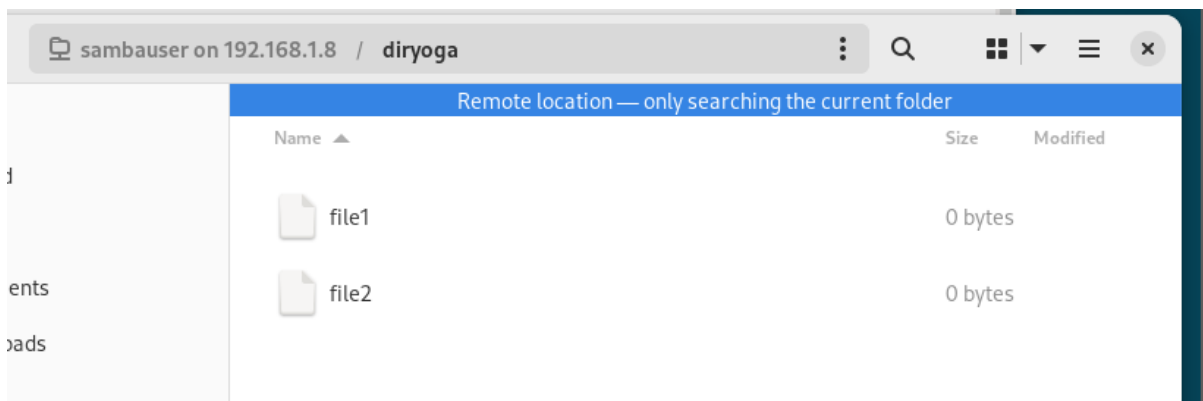
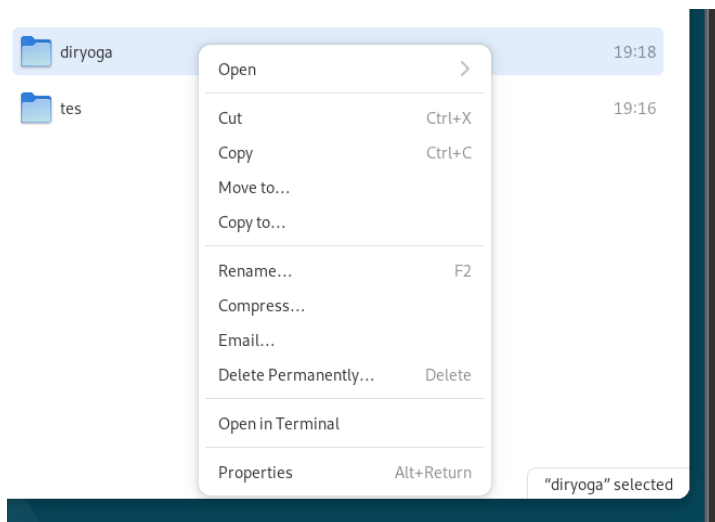


Jika berhasil tampilan akan seperti ini

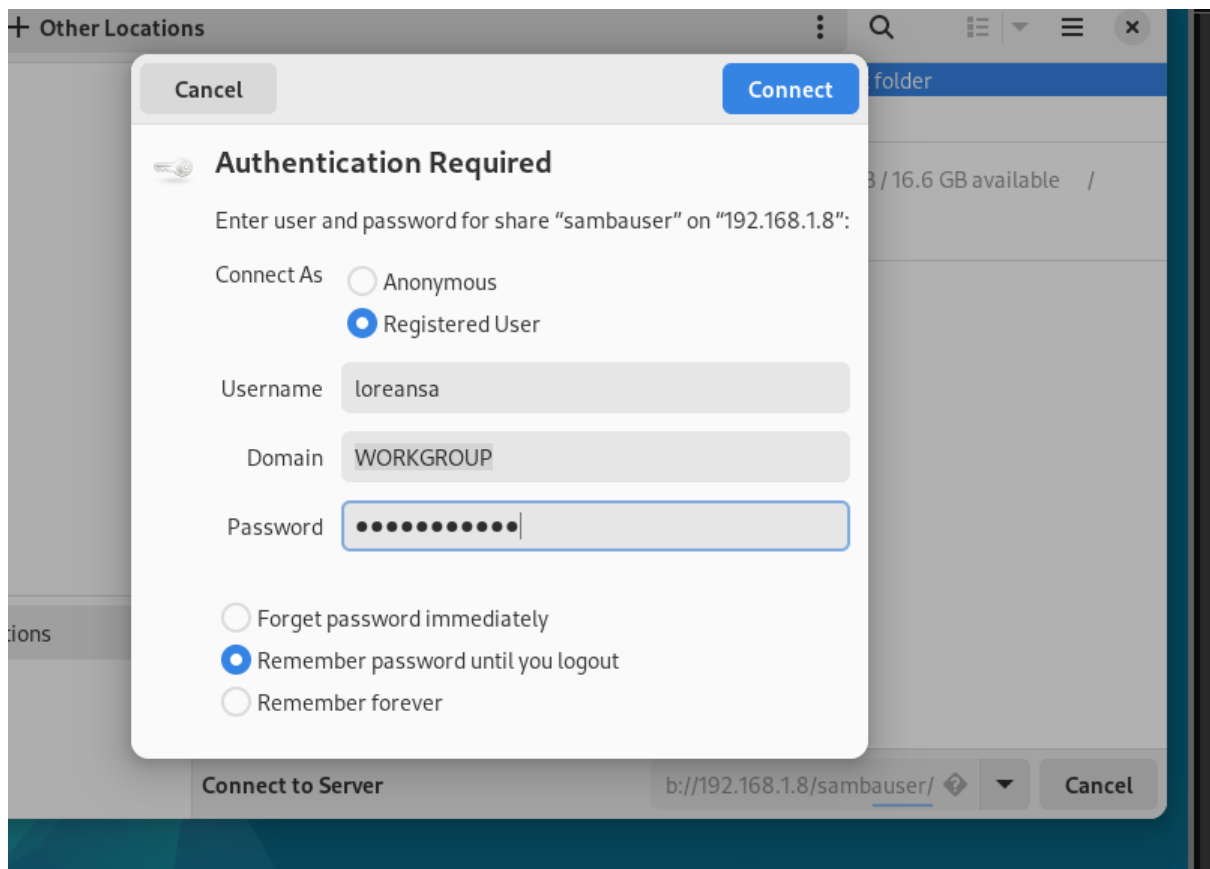


Lalu kita buat folder baru





Lalu saya akan login pada user loreansa itu tidak bisa akses dikarenakan yoga tidak saya masukkan kedalam folder sambauser



Hasilnya akan mental kembali seperti ini

