

Experiment 2.2

Student Name: Sachin Maurya

UID:21BCS1956

Branch: BE-CSE

Section/Group: CC-615-B

Date of Performance:07-03-2024

Subject Code: 21CSP-378

Subject Name: Cloud Computing &

Semester: 6

Distributed Systems

1. Aim:

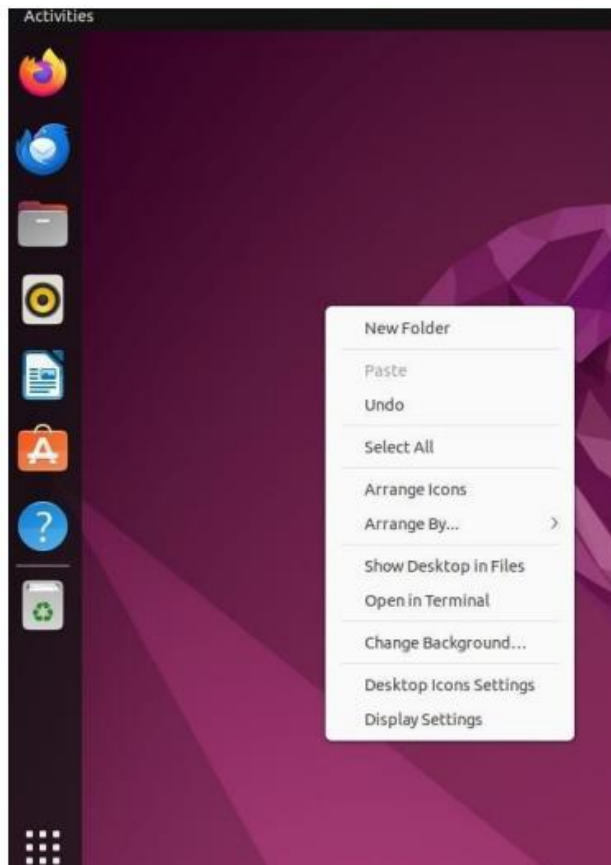
To Find a procedure to transfer the files from one virtual machine to another virtual machine.

Objective:

To share files between two virtual machines over a local network via Ip address.

Procedure:

Step 1: Open the file manager and right-click on the folder you want to share or create a new folder. Click on the option “Local Network Share” in the context menu.



Step2: Click on the Share this folder checkbox in the Folder Sharing dialog.



Step 3: Install Samba packages in your system. Samba is used to share files and printers over the network between Windows and Unix systems.

After Samba installation, do the following to share a folder or directory.

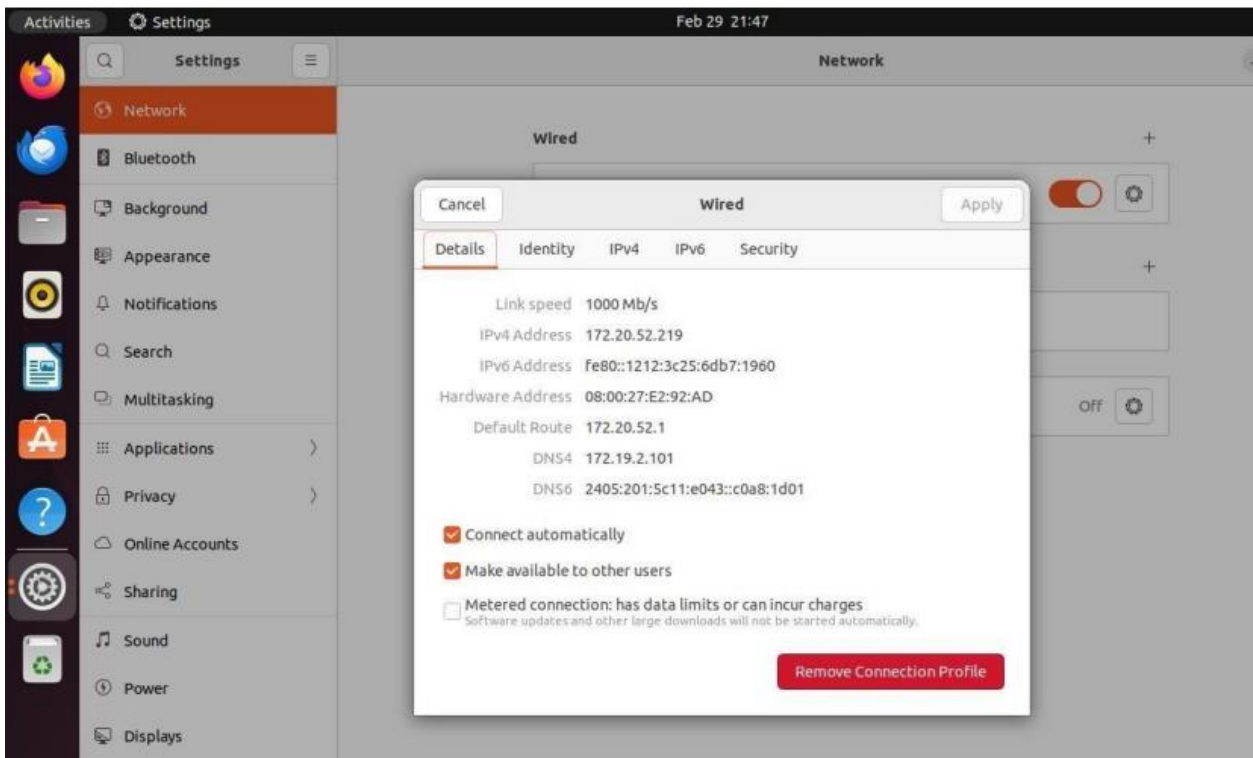
- ☐ Select the checkbox Share this folder.
- ☐ Input a share name. This would be the name you would be seeing from another system, e.g. Windows. Try not to use any name with spaces.
- ☐ (Optional) You can control the write permission to the shared folder and allow guest access by checking the corresponding option.
- ☐ If you allow guest access, people without credentials can access the shared folder. So be cautious.

```

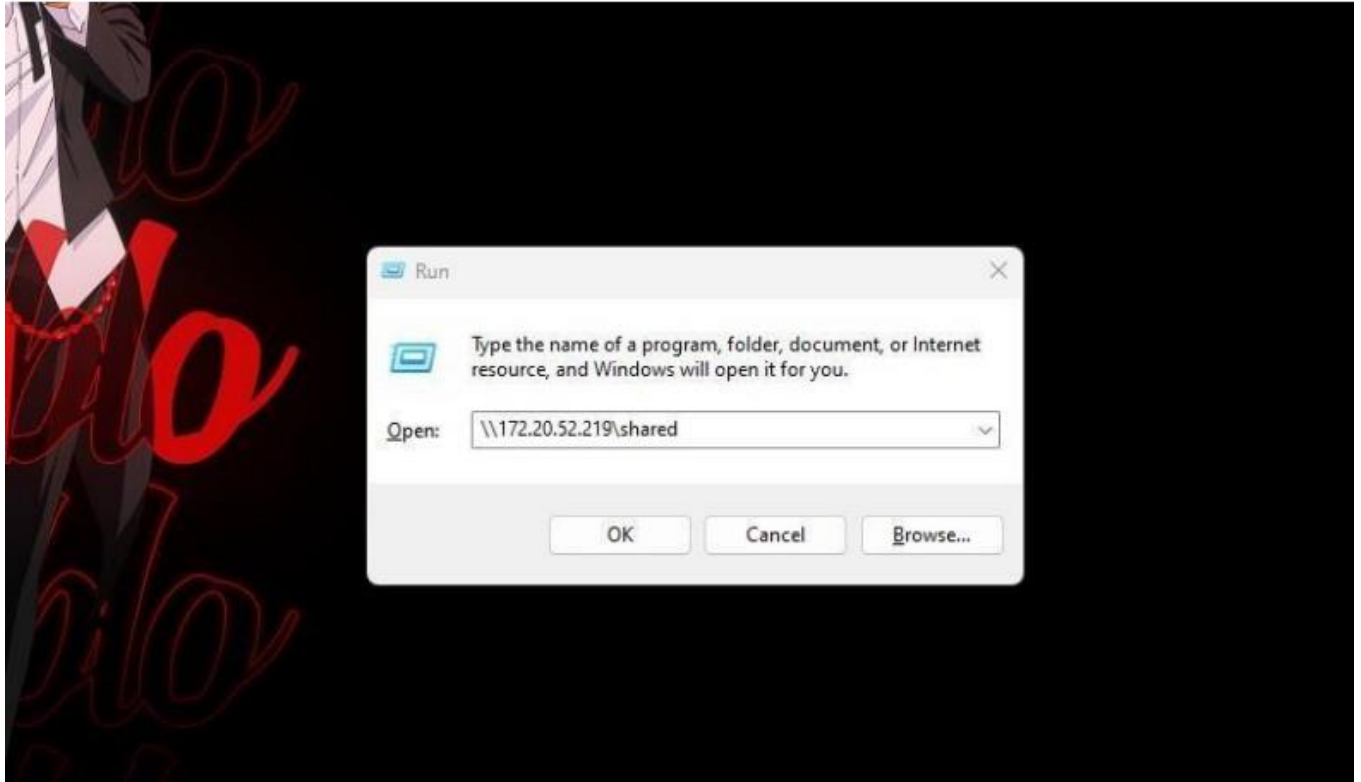
nikunj@nikunj-VirtualBox: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

nikunj@nikunj-VirtualBox:~$ sudo apt install samba
[sudo] password for nikunj:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  attr ibverbs-providers libcephfs2 libgfs2 libgfrpc0 libgfsxdr0
  libglusterfs0 libibverbs1 librados2 librdmacm1 libsmbclient liburing2
  libwbclient0 python3-dnspython python3-gpg python3-markdown python3-pygments
  python3-requests-toolbelt python3-samba python3-tdb samba-common
  samba-common-bin samba-dsdb-modules samba-libs samba-vfs-modules tdb-tools
Suggested packages:
  python3-sniffio python3-trio python-markdown-doc python-pygments-doc
  ttf-bitstream-vera bind9 bind9utils ctdb ldb-tools ntp | chrony
  smbldap-tools winbind heimdal-clients
The following NEW packages will be installed:
  attr ibverbs-providers libcephfs2 libgfs2 libgfrpc0 libgfsxdr0
  libglusterfs0 libibverbs1 librados2 librdmacm1 liburing2 python3-dnspython
  python3-gpg python3-markdown python3-pygments python3-requests-toolbelt
  python3-samba python3-tdb samba samba-common samba-common-bin
  samba-dsdb-modules samba-vfs-modules tdb-tools
  
```

Step 4: To access the shared folder from Ubuntu/Linux system, you need your system's IP address/hostname. To do that, open System Settings -> Wifi -> Get the IP address.



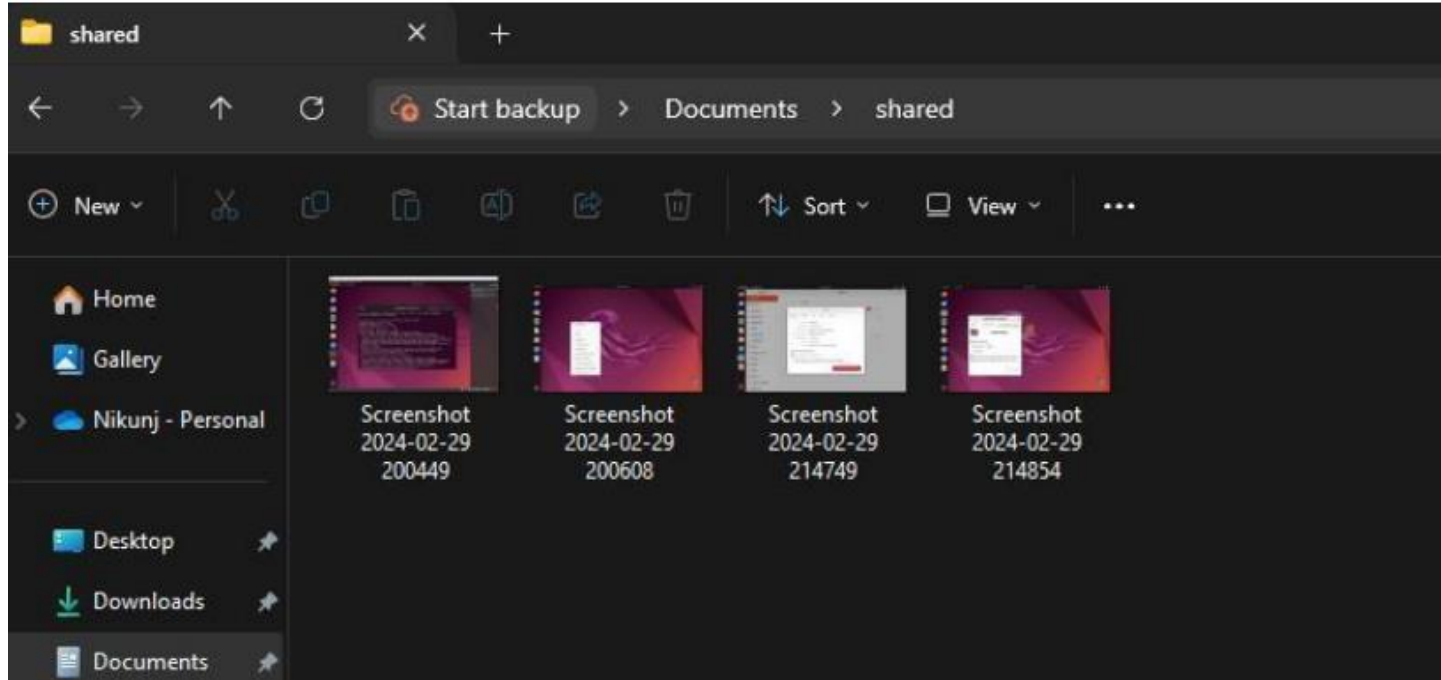
Step 5: To access the shared folder from the Windows system or any other VM, Open Run (Windows Key+R) or open Explorer and enter the address below. You should change the IP address and Folder name based on your system



The system will also ask you to enter the username and password of the user on the PC.



Step 6: THE CONTENTS OF THE SHARED FOLDER ARE NOW VISIBLE IN THE OTHER OPERATING SYSTEM



Learning outcomes

- ☐ Learning the usage of samba library
- ☐ File transfer between two VMs
- ☐ Creating local server between guest VM and OS