HOW TO CREATE NETWORK SHARE FOLDER VIA SAMBA

Network share resource (folder): in computing, a shared resource, or network share, is a computer resource made available from one host to other hosts on a computer network. It is a device or piece of information on a computer that can be remotely accessed from another computer transparently as if it were a resource in the local machine.

Samba: *samba* is the standard windows interoperability suite of programs for *linux* and unix. *Samba* is Free Software.

INSTALLATION AND CONFIGURATION

- Setup and Install Ubuntu Linux VM or Container

- Update Linus Os: sudo apt update

- Installing Samba on Linux OS: sudo apt install samba -y

- create folders that you want to share on the network: mkdir /dir/where you want to create the folder e.g mkdir /var/test

- give permission to the shared folder: e.g chmod 777 /var/test (777 read and write permission)

- edit samba configuration file: nano /etc/samba/smb.conf

- add shared folder configuration to samba configuration file, scroll to the last line of the config file and add the following

```
[share folder1] (change this to your preferred name)
        comment = Share1 (change this to your preferred name)
        path = /var/test (change this to the path folder that you created)
        browseable = yes
        read only = no
        guest ok = yes
```

- save the configuration file (ctrl+o)

- restart samba or restart the linux Os

// to check the status of service: sudo service smbd status

// to start the service: sudo service smbd start

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// to stop the service completely: sudo service smbd stop

// to restart samba services: sudo service smbd restart

- access the shared folder on windows system on the same network with your samba share: \\ip address of your linux os [**e.g \\10.10.1.100**]: if your configuration is correct you should see something similar.
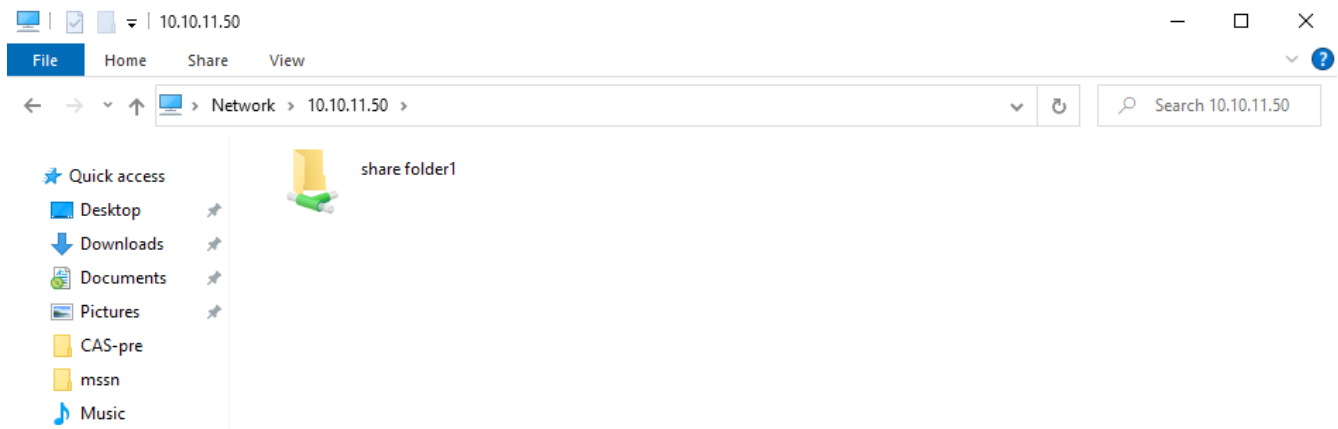
- open network share folder: right click and open
- create sample folder
- create sample file
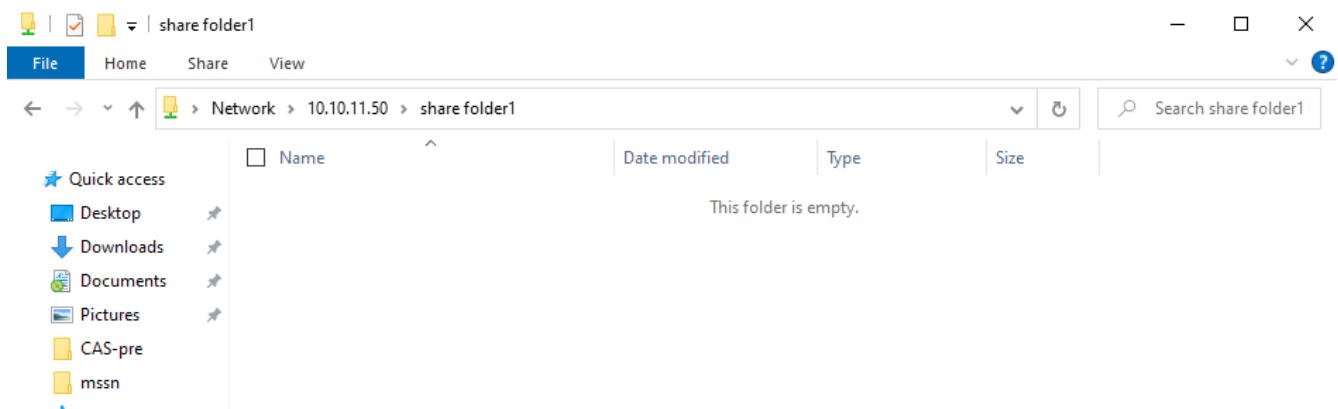
ADDING SECURITY TO SHARED FOLDER

- add a user that you want to give right on the shared folder: *sudo useradd test --shell /bin/false* (I use test as the username)
- set password for the user: *smbpasswd -a test*
- change ownership of the shared folder: *sudo chown test /var/test*

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- *edit samba configuration file to include permitted user: nano /etc/samba/smb.conf*

[share folder1]
      comment = Share1
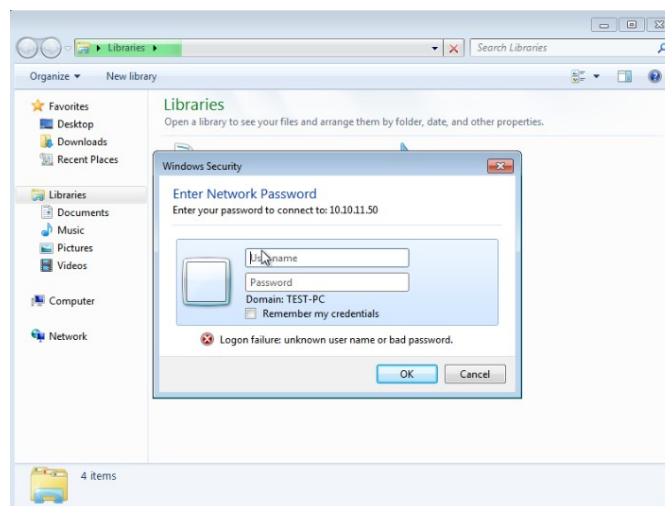   *path = /var/test*
      browseable = yes
      read only = no
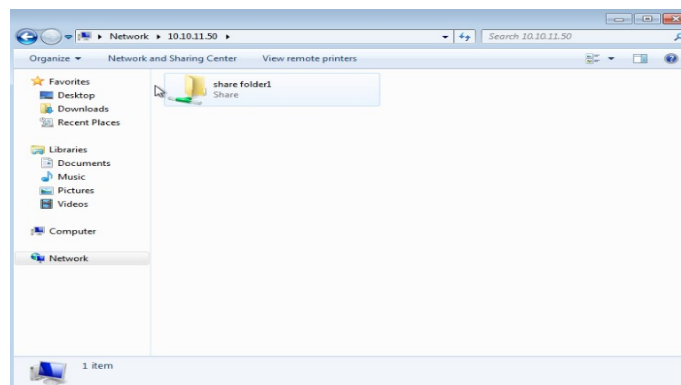   *guest ok = yes*
      force user = test
      force group = test

- *save the configuration file (ctrl+o)*

- *r*estart samba or restart Linux os
- access shared folder: *you will be ask to supply login detail*


- After supplying correct login details

CREATING READ-ONLY SHARED FOLDER PERMISSION

- *edit samba configuration file to include read-only configuration: nano /etc/samba/smb.conf*

[share readonly]
    comment = Share1
    path = /var/test
    browseable = yes
    read only = yes
    guest ok = yes

- *save the configuration file (ctrl+o)*

- restart samba or restart Linux os
- access shared folder: *you will see a shared folder linking to the same folder but with read only permission (user can not delete)*
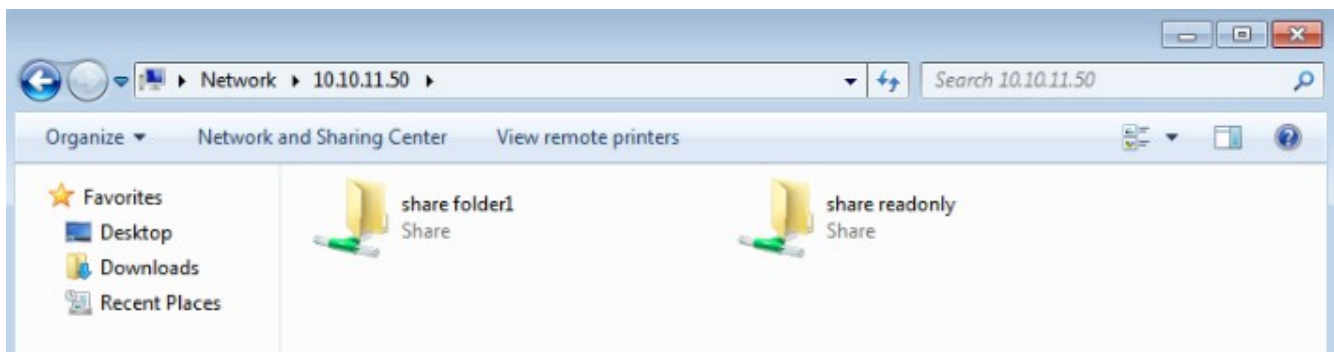
- *try to delete a file or folder*
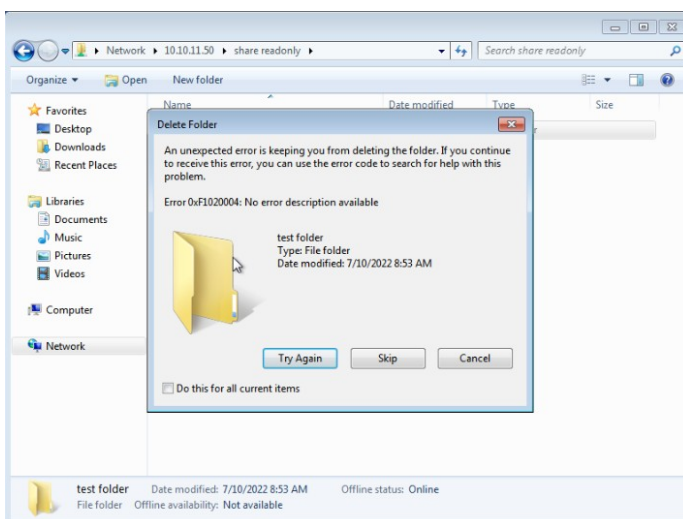
- *Real life and use case will be discuss in class*