

Assignments:09

Module:- COSA(SAMBA- Add user permission)

Name:- Prithviraj Nikam

Lab Assignment :-

1. Install Samba Server on linux system that allow user authentication with following details:

Share path: /home/ditiss

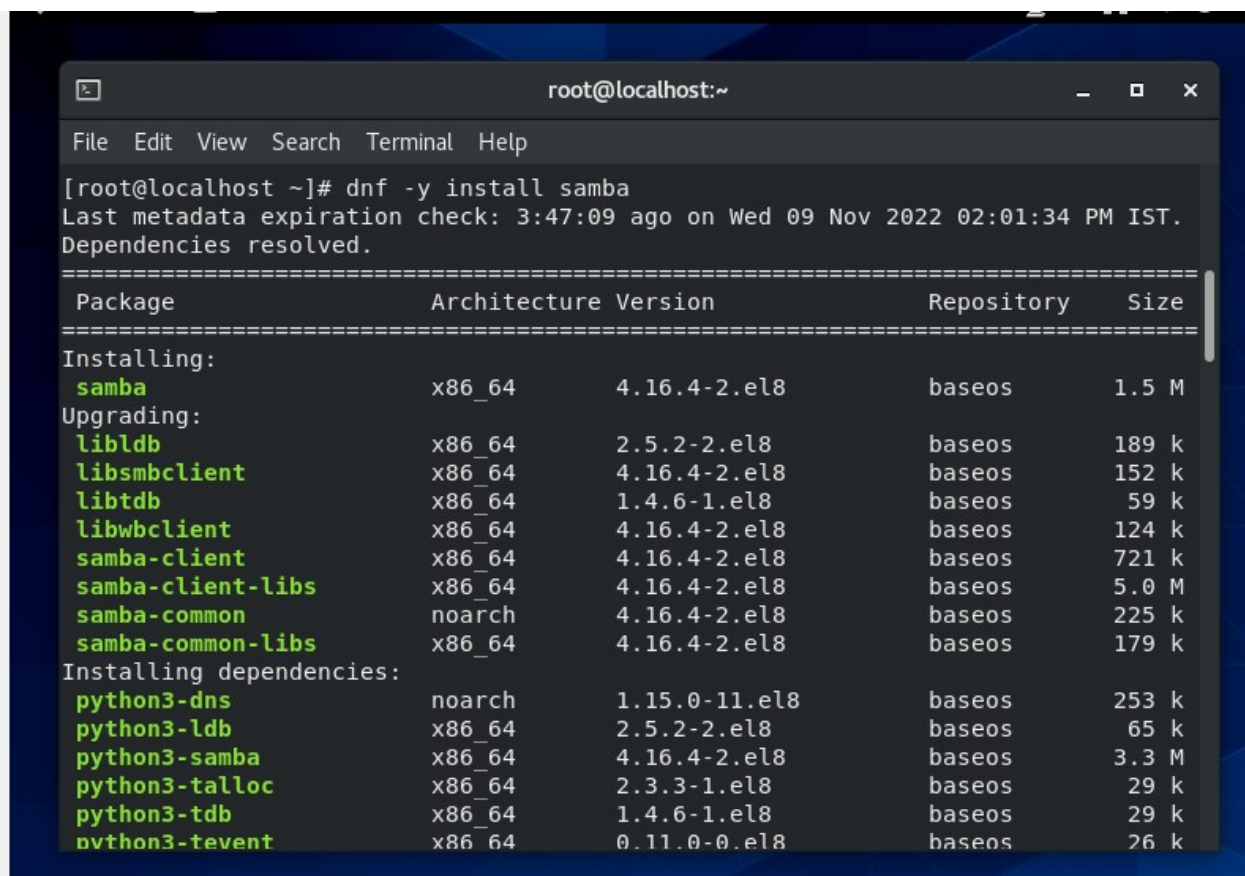
Group Name: cdac

UserName: cdacuser

Samba password: 123456

Step-1:- Install SAMBA server

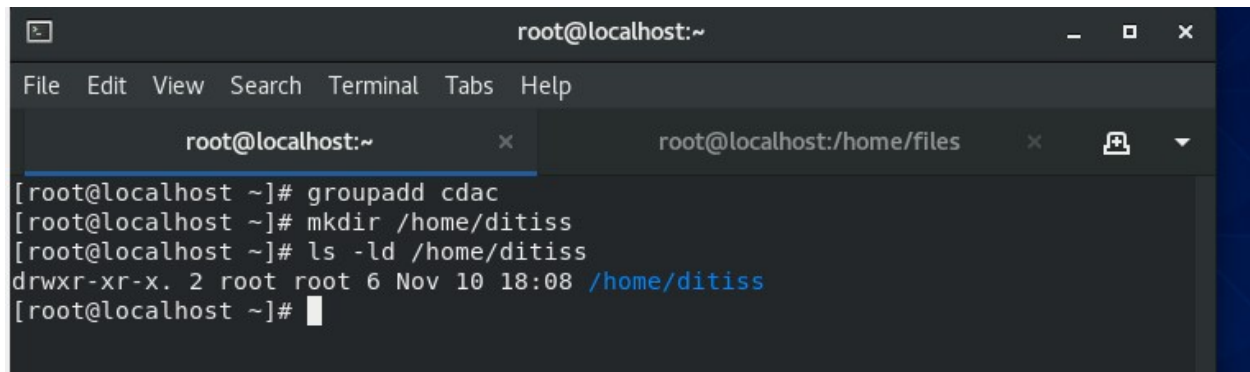
Cmd:- # dnf -y install samba



```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]# dnf -y install samba  
Last metadata expiration check: 3:47:09 ago on Wed 09 Nov 2022 02:01:34 PM IST.  
Dependencies resolved.  
=====
```

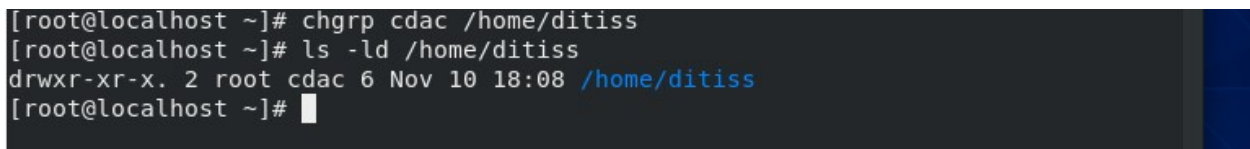
Package	Architecture	Version	Repository	Size
Installing:				
samba	x86_64	4.16.4-2.el8	baseos	1.5 M
Upgrading:				
libldb	x86_64	2.5.2-2.el8	baseos	189 k
libsmbclient	x86_64	4.16.4-2.el8	baseos	152 k
libtdb	x86_64	1.4.6-1.el8	baseos	59 k
libwbclient	x86_64	4.16.4-2.el8	baseos	124 k
samba-client	x86_64	4.16.4-2.el8	baseos	721 k
samba-client-libs	x86_64	4.16.4-2.el8	baseos	5.0 M
samba-common	noarch	4.16.4-2.el8	baseos	225 k
samba-common-libs	x86_64	4.16.4-2.el8	baseos	179 k
Installing dependencies:				
python3-dns	noarch	1.15.0-11.el8	baseos	253 k
python3-ldb	x86_64	2.5.2-2.el8	baseos	65 k
python3-samba	x86_64	4.16.4-2.el8	baseos	3.3 M
python3-talloc	x86_64	2.3.3-1.el8	baseos	29 k
python3-tdb	x86_64	1.4.6-1.el8	baseos	29 k
python3-tevent	x86_64	0.11.0-0.el8	baseos	26 k

Step-2:- create share folder and group cdac



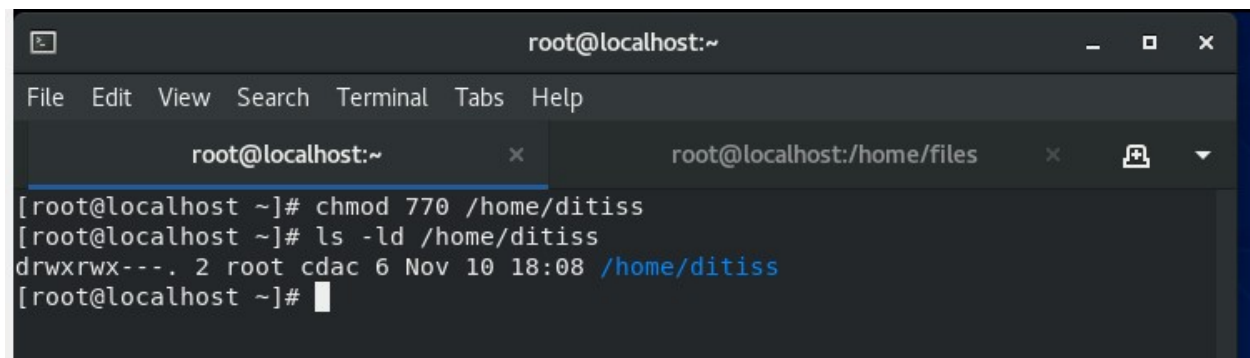
```
root@localhost:~  
File Edit View Search Terminal Tabs Help  
root@localhost:~ x root@localhost:/home/files x [icon] v  
[root@localhost ~]# groupadd cdac  
[root@localhost ~]# mkdir /home/ditiss  
[root@localhost ~]# ls -ld /home/ditiss  
drwxr-xr-x. 2 root root 6 Nov 10 18:08 /home/ditiss  
[root@localhost ~]#
```

Step-3:- change the group owner



```
[root@localhost ~]# chgrp cdac /home/ditiss  
[root@localhost ~]# ls -ld /home/ditiss  
drwxr-xr-x. 2 root cdac 6 Nov 10 18:08 /home/ditiss  
[root@localhost ~]#
```

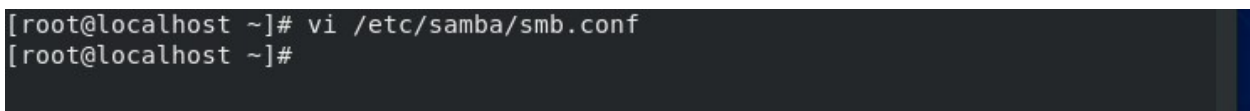
Step -4 :- change the permission



```
root@localhost:~  
File Edit View Search Terminal Tabs Help  
root@localhost:~ x root@localhost:/home/files x [icon] v  
[root@localhost ~]# chmod 770 /home/ditiss  
[root@localhost ~]# ls -ld /home/ditiss  
drwxrwx---. 2 root cdac 6 Nov 10 18:08 /home/ditiss  
[root@localhost ~]#
```

Step- 5:- Configure SAMBA

#vi /etc/samba/smb.conf



```
[root@localhost ~]# vi /etc/samba/smb.conf  
[root@localhost ~]#
```

```

inherit permissions = yes
[ditiss]
comment = Authentication based access
path = /home/ditiss
writable = yes
guest ok = no
valid users = @cdac
force group = cdac
force create mode = 770
force directory mode = 770
inherit permissions = yes
-- INSERT --

```

Step-6:- restart samba service

```

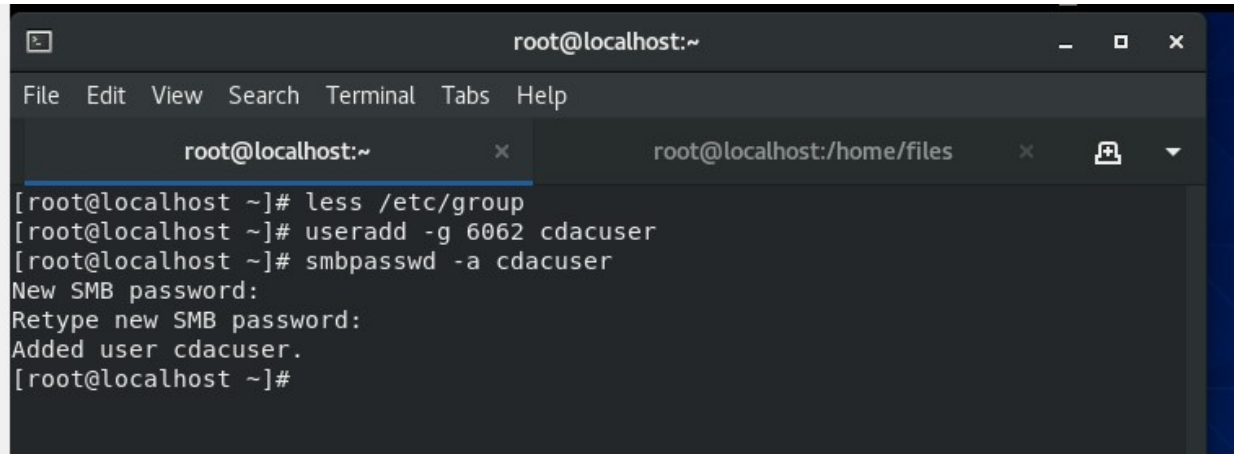
File Edit View Search Terminal Tabs Help
root@localhost:~ x root@localhost:/home/files x
root@localhost ~]# vi /etc/samba/smb.conf
root@localhost ~]# systemctl restart smb.service
root@localhost ~]# systemctl status smb.service
● smb.service - Samba SMB Daemon
   Loaded: loaded (/usr/lib/systemd/system/smb.service; disabled; vendor preset:
   Active: active (running) since Thu 2022-11-10 18:19:30 IST; 3min 51s ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
  Main PID: 29680 (smbd)
    Status: "smbd: ready to serve connections..."
     Tasks: 4 (limit: 12262)
    Memory: 7.6M
    CGroup: /system.slice/smb.service
            └─29680 /usr/sbin/smbd --foreground --no-process-group
              └─29682 /usr/sbin/smbd --foreground --no-process-group
                └─29683 /usr/sbin/smbd --foreground --no-process-group
                  └─29691 /usr/sbin/smbd --foreground --no-process-group

Nov 10 18:19:30 localhost.localdomain systemd[1]: Starting Samba SMB Daemon...
Nov 10 18:19:30 localhost.localdomain smbd[29680]: [2022/11/10 18:19:30.863792,
Nov 10 18:19:30 localhost.localdomain smbd[29680]:   smbd version 4.16.4 starte
Nov 10 18:19:30 localhost.localdomain smbd[29680]:   Copyright Andrew Tridgell
Nov 10 18:19:30 localhost.localdomain systemd[1]: Started Samba SMB Daemon

```

Step-7:- add user

```
ditiss:x:6060:  
ditiss1:x:6061:  
named:x:25:  
cdac:x:6062:  
(END)
```

A terminal window titled 'root@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Tabs, Help). It shows two tabs: 'root@localhost:~' and 'root@localhost:/home/files'. The terminal output shows the following commands and their results:

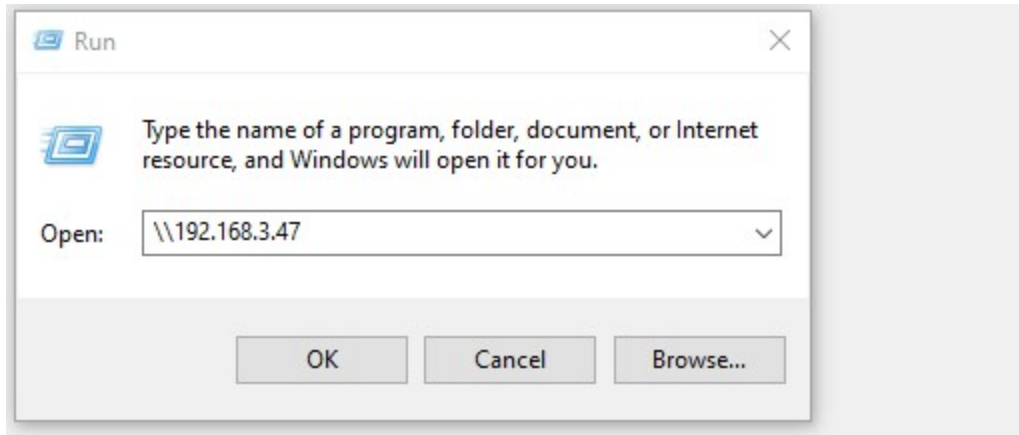
```
[root@localhost ~]# less /etc/group  
[root@localhost ~]# useradd -g 6062 cdacuser  
[root@localhost ~]# smbpasswd -a cdacuser  
New SMB password:  
Retype new SMB password:  
Added user cdacuser.  
[root@localhost ~]#
```

Step-8:- stop firewall and disable setenforce

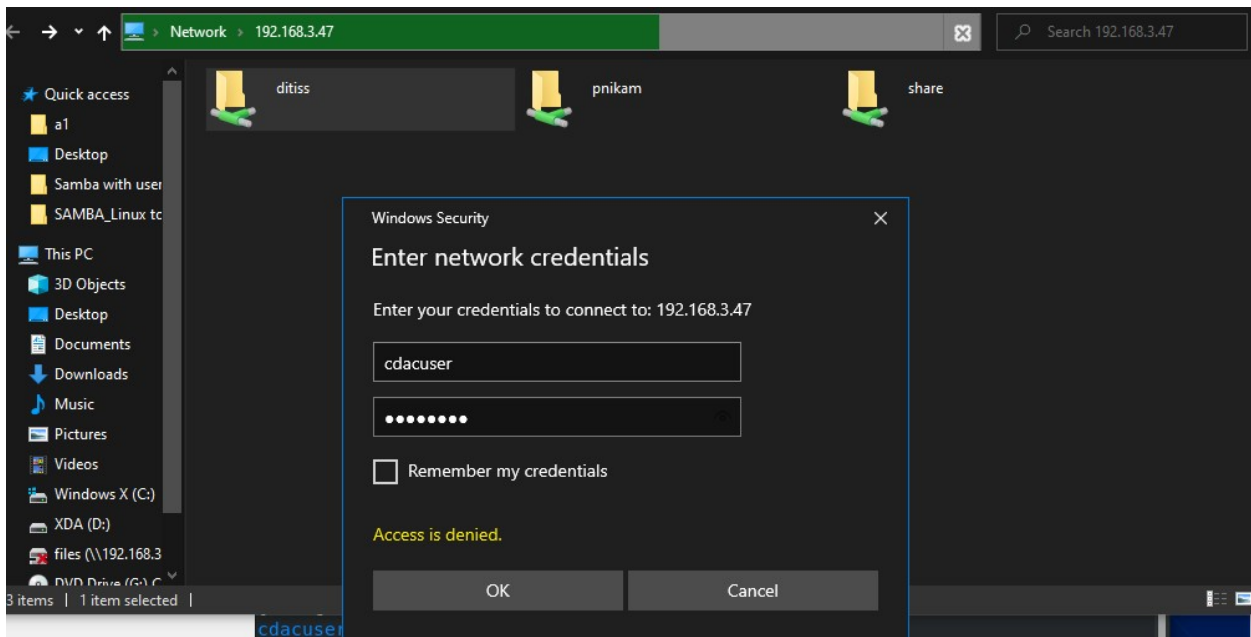
```
[root@localhost home]# systemctl stop firewalld  
[root@localhost home]# iptables -F  
[root@localhost home]# setenforce 0  
[root@localhost home]#
```

Client:-

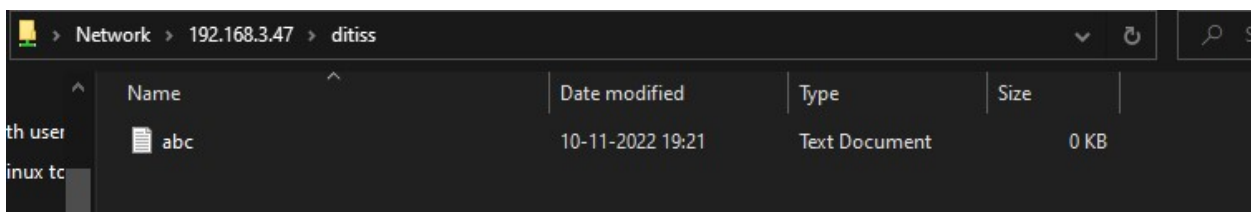
Step-1:- go to windows and run the “RUN” on windows start.and put Linux System ip address



Step -2:- opening the new window .enter password and username

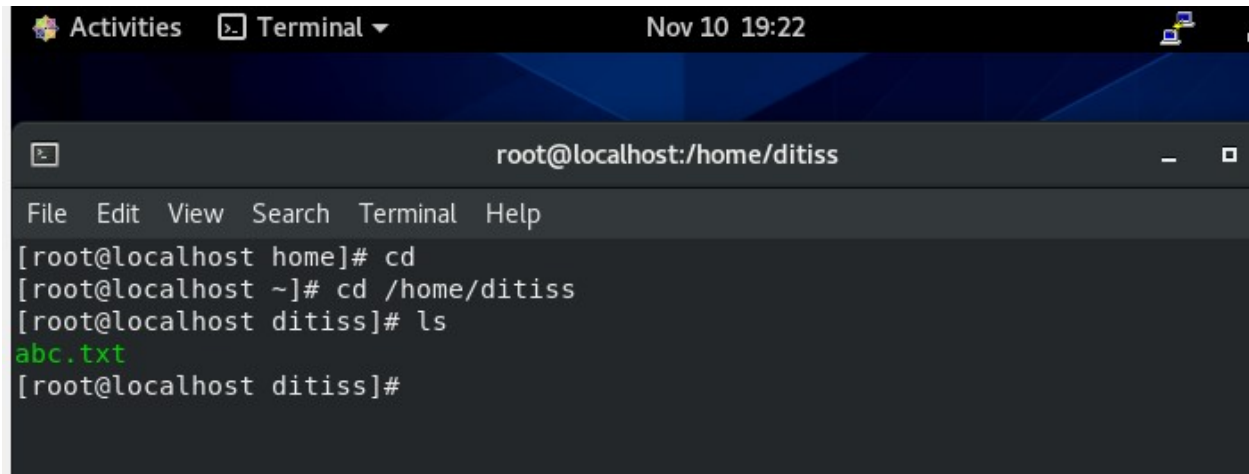


Share any file one folder open and create new text file



SERVER:-

Step-1:- check server side file location

A screenshot of a Linux terminal window. The window title bar shows 'Activities', 'Terminal', and the date 'Nov 10 19:22'. The terminal content shows a sequence of commands: '[root@localhost home]# cd', '[root@localhost ~]# cd /home/ditiss', '[root@localhost ditiss]# ls', and the output 'abc.txt' in green. The prompt returns to '[root@localhost ditiss]#'.

```
root@localhost:/home/ditiss
File Edit View Search Terminal Help
[root@localhost home]# cd
[root@localhost ~]# cd /home/ditiss
[root@localhost ditiss]# ls
abc.txt
[root@localhost ditiss]#
```