Continuing Education Program
Center for Computing and Information Technology
Fakultas Teknik Universitas Indonesia

PROJECT

CONFIGURATION SAMBA SERVER FILE SHARING

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Class : 4NAP1

Faculty : Tri Agus Riyadi, MT

Semester : 4

Continuing Education Program Center for Computing and Information Technology

Faculty of Engineering, University of Indonesia

2018

PROJECT ON

CONFIGURATION SAMBA SERVER FILE SHARING

Developed By

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Faculty : Tri Agus Riyadi, MT

The logo for NIIT (National Institute of Information Technology) is displayed in a large, bold, blue serif font. The letters are closely spaced and have a classic, institutional feel.

PROJECT ON
CONFIGURATION SAMBA SERVER FILE SHARING

Batch Code : 4NAP1

Start Date : May 15 , 2018

End Date : June 12 , 2018

Name Of The Coordinator : Mr. Tri Agus Riyadi

Name Of Developer : Rio Ramadhan
Rizki Amalia

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CERTIFICATE

This is to certify that this report titled *CONFIG SAMBA SERVER FILE SHARING* embodies the original work done by *Rio Ramadhan and Rizki Amalia* in partial fulfillment of their course requirement at NIIT.

Coordinator:

Mr. Tri Agus Riyadi

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Depok, May 2018

Authors

INTRODUCTION

Samba is an application that enables a network administrator to work in an open environment with full flexibility and freedom in terms of configuration, setups and other selection regarding hardware and system elements. In other words, Samba was designed to remove hurdles to interoperability.

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IN GENERAL STEPS

The following task have been performed to meet the specification of the project scenario :

1. Make directory with `mkdir public_share` and `chmod 777 public_share`.
2. Make directory with `mkdir admin` and `chmod 777 admin`.
3. Then, sign in `sudo su` and `apt-get install samba` for installing samba.
4. Fourth, locate `smb.conf`.
5. Fifth, `gedit /etc/samba/smb.conf` for modify directive settings as described below and save.
6. Then, writte `useradd admin`.
7. And, `addgroup private`.
8. `Usermod -a -G private admin`, only admin change a user's system account settings.
9. `Smbpasswd -a admin`.
10. `Chownadmin : private admin`.
11. `Sudo service samba restart`.
12. Open up cmd and edit file path.
13. Making a folder in `public_share` and `admin`.
14. Folder penting and data admin has been exist.

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

```
Terminal
root@ubuntu: /home/ggwp
root@ubuntu: /home/ggwp# mkdir public_share
root@ubuntu: /home/ggwp# chmod 777 public_share/
```

First start by creating a shared samba directory name public_share. Then set the appropriate permissions on the directory. This will give permissions to all files currently in the folder and files added in the future without giving permissions to the directory itself.

```
Terminal File Edit View Search Terminal Help
root@ubuntu: /home/ggwp
root@ubuntu: /home/ggwp# mkdir admin
root@ubuntu: /home/ggwp# chmod 777 admin
```

Then creating a shared samba directory name admin. Then set the appropriate permissions on the directory. This will give permissions to all files currently in the folder and files added in the future giving permissions to admin only.

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

A terminal window titled 'Terminal' showing a user named 'ggwp' at 'ubuntu' in the directory '/home/ggwp'. The user has entered 'sudo su' to become root. The prompt is now 'root@ubuntu: /home/ggwp#'. The user has entered 'apt-get install samba' and the command is being executed. The terminal background is dark purple with a lighter purple gradient at the bottom. On the left side, there is a vertical dock with various application icons including a gear, a folder, a globe, a document, a calendar, a presentation, a shopping bag, and the Amazon logo. The top right corner shows system icons for network, volume, and battery, along with the time '9:47 AM' and a settings gear icon.

```
Terminal
root@ubuntu: /home/ggwp
ggwp@ubuntu:~$ sudo su
[sudo] password for ggwp:
root@ubuntu: /home/ggwp# apt-get install samba
```

Entered into root, then installing samba with apt-get install samba

A terminal window titled 'Terminal' showing the same user 'ggwp' at 'ubuntu' in the directory '/home/ggwp'. The user is now root. The prompt is 'root@ubuntu: /home/ggwp#'. The user has entered 'locate smb.conf' and the command has returned several file paths. The terminal background is dark purple with a lighter purple gradient at the bottom. On the left side, there is a vertical dock with various application icons including a gear, a folder, a globe, a document, a calendar, a presentation, a shopping bag, and the Amazon logo. The top right corner shows system icons for network, volume, and battery, along with the time '9:48 AM' and a settings gear icon.

```
Terminal
root@ubuntu: /home/ggwp# locate smb.conf
/etc/samba/smb.conf
/usr/share/doc/nautilus-share/examples/smb.conf
Files      nc/samba-common/examples/smb.conf.default.gz
/usr/share/man/man5/smb.conf.5.gz
/usr/share/samba/smb.conf
/var/lib/ucf/cache/etc:samba:smb.conf
root@ubuntu: /home/ggwp#
```

We can find if the installation was successful by running locate smb.conf

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

Now open the configuration file : `gedit /etc/samba/smb.conf`

```
Terminal
root@ubuntu: /home/ggwp
root@ubuntu:/home/ggwp# locate smb.conf
/etc/samba/smb.conf
/usr/share/doc/nautilus-share/examples/smb.conf
/usr/share/doc/samba-common/examples/smb.conf.default.gz
/usr/share/man/man5/smb.conf.5.gz
/usr/share/samba/smb.conf
/var/lib/ucf/cache/etc:samba:smb.conf
root@ubuntu:/home/ggwp# gedit /etc/samba/smb.conf
```

Next edit or modify the directive settings as described below.

```
smb.conf (/etc/samba) - gedit
File Edit View Search Tools Documents Help
smb.conf x
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[public]
workgroup = PUBLIC
server string = Samba Server %v
netbios name = srvr1
security = user
map to guest = bad user
name resolve order = bcast host
dns proxy = no

[public_share]
path = /home/ggwp/public_share
browsable = yes
writable = yes
guest ok = yes
read only = no

[admin]
path = /home/ggwp/admin
valid users = @private
guest ok = no
writable = yes
browsable = yes

Plain Text Tab Width: 8 Ln 1, Col 1 INS
```

Then press `Ctrl-O` to save and `Ctrl-X` to exit from the *gedit* text editor

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

Adding the admin by useradd admin

Added a group private only admin able to access

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

Only admin change a user's system account settings.

Admin set the encrypted password used by samba server

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

```
Terminal
root@ubuntu: /home/ggwp
root@ubuntu:/home/ggwp# chown admin:private admin
root@ubuntu:/home/ggwp#
```

Admin can change owner file.

```
Terminal
root@ubuntu: /home/ggwp
Search your computer and online sources
samba restart
nmbd stop/waiting
nmbd start/running, process 6837
smbd stop/waiting
smbd start/running, process 6849
stop: Unknown instance:
samba-ad-dc start/running, process 6862
root@ubuntu:/home/ggwp#
```

Now that we have our new share configured, save it and restart Samba for it to take effect.

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

On Windows, open up cmd and edit the file path to:

Between Ubuntu and windows now is connected.

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

Making a folder sharing in public_share.

Click the admin file sharing

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

If user clicked admin, automatic access denied.

Make a folder data admin in admin file sharing

STEP-STEP CONFIGURATION SAMBA

SERVER FILE SHARING

```
Terminal
root@ubuntu: /home/ggwp/public_share
root@ubuntu:/home/ggwp# dir
admin Documents examples.desktop Pictures public_share Videos
Desktop Downloads Music Public Templates
root@ubuntu:/home/ggwp# cd public_share/
root@ubuntu:/home/ggwp/public_share# dir
pentling
root@ubuntu:/home/ggwp/public_share#
```

Folder pentling has been exist

```
Terminal
root@ubuntu: /home/ggwp/admin
root@ubuntu:/home/ggwp# dir
admin Documents examples.desktop Pictures public_share Videos
Desktop Downloads Music Public Templates
root@ubuntu:/home/ggwp# cd public_share/
root@ubuntu:/home/ggwp/public_share# dir
pentling
root@ubuntu:/home/ggwp/public_share# cd ..
root@ubuntu:/home/ggwp# dir
admin Documents examples.desktop Pictures public_share Videos
Desktop Downloads Music Public Templates
root@ubuntu:/home/ggwp# cd admin
root@ubuntu:/home/ggwp/admin# dir
data admin
root@ubuntu:/home/ggwp/admin#
```

Folder data admin has been exist

SYSTEM CONFIGURATION

Hardware : Intel^R CoreTM i7-6700HQ CPU @ 2.60GHz 2,60 GHz, 4.00GB RAM,
1T HDD, DVD Super Multi DL drive, Asus ROG GL522VW

Operating System : Windows 7, Ubuntu

Software : VMware Workstation Pro

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PEER ASSESSMENT MARKS		

Group Number :
 Presentation Test Type : ISAS/Project/.....
 Date :
 Time :

Group Number	Timeliness (Mak. 25)	Presentation Performance (Mak. 25)	Originality of the Subject (Mak. 25)	Knowledge of the Subject (Mak. 25)	TOTAL MARKS
1					

- **Timeliness** will be calculates by time of attending the presentation
- **Presentation Performance** will be assessed from the ability of groups when presenting the subject and handling questions from the audience.
- **Originality of the subject** will be marked based on the ideas of the ISAS/Project/other
- **Knowledge of the Subject** means how good the group mastering the topic after working on the ISAS/Project/other.

Assessor	:	
Group Number	:	
Group Member	:	