Tribhuvan University

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INTERNET AND INTRANET

Lab 1

VSFTP Server Configuration

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Title

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Background Theory

File transfer protocol (FTP) is a standard network protocol used for the transfer of files from one host to another over a TCP-based network, such as the Internet. FTP is a commonly used protocol for transferring files between computers, and it is also used to transfer files from a server to a client or from a client to a server. One of the most popular and secure FTP server software is VSFTP (Very Secure File Transfer Protocol).

VSFTP(Very Secure FTP) is a free and open-source FTP server software that is widely used on Linux and Unix-based operating systems, as well as Windows. It offers a variety of features including support for virtual users, SSL/TLS encryption, and file permissions. VSFTP is considered to be one of the most secure FTP servers available, and it is often used for securely transferring files over a network. In this report, we will discuss the basic steps to install and configure a VSFTP server on Linux and Windows operating systems.

Activity

1 VSFTPD Installation

1. Updated system packages.

sudo apt update

2. Installed VSFTPD package.

sudo apt install vsftpd ftp ufw -y

3. Enabled the VSFTPD server.

sudo systemctl enable vsftpd

4. Launched VSFTPD.

sudo systemctl start vsftpd

5. Checked the status of VSFTPD.

sudo systemctl status vsftpd

Figure 1: VSFTPD installation

2 Configuration file for VSFTPD

1. VSFTPD file was configurde as follows.

```
log_ftp_protocol=YES
anonymous_enable=YES # allow anonymous user to login
seccomp_sandbox=NO # this line disables security sandbox
use_sendfile=YES # enable send/receive file functionality
local_enable=YES # allow local users to login
write_enable=YES # allow FTP write command
anon_upload_enable=YES # allow anonymous users to upload
dirmessage_enable=YES
xferlog_enable=YES
connect_from_port_20=YES
listen=YES
pam_service_name=vsftpd
```

2. VSFTPD was restarted.

```
sudo systemctl restart vsftpd
```

```
ubuntu@Katuwal:~$ sudo systemctl restart vsftpd
```

Figure 2: VSFTPD restart

3 FTP Connection

- 1. Connect using ftp IP
- 2. Use recy to receive and send to send.

ftp localhost
ls
recv test.txt

Conclusion

In this report, we have discussed the basic steps to install and configure a VSFTP server on Linux operating systems. The process of configuring a VSFTP server involves installing the software, configuring the settings, creating virtual users, and testing the server to ensure it is working properly.