

Installation af FTP på Ubuntu 24.04.

Der tages udgangspunkt i at biblioteket der skal have adgang til FTP er biblioteket `/smbashare` der er oprettet under Samba installation.

Log på din server med SSH, hvis du ikke allerede er det.

Husk at køre `update/upgrade` inden, hvis du ikke har gjort det. (Ubuntu skal være fuldt opdateret)

Først skal vi have installeret en FTP server. Til det bruger vi `vsftpd` server. Det gøres med følgende kommando:

```
sudo apt install vsftpd
```

Resultat:

```
dtmek@server:/smbashare$ sudo apt install vsftpd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ssl-cert
The following NEW packages will be installed:
  ssl-cert vsftpd
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 137 kB of archives,
after this operation, 380 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://dk.archive.ubuntu.com/ubuntu noble/main amd64 ssl-cert all 1.1.2ubuntu1 [17.8 kB]
Get:2 http://dk.archive.ubuntu.com/ubuntu noble-updates/main amd64 vsftpd amd64 3.0.5-0ubuntu3.1 [120 kB]
Fetched 137 kB in 0s (1,061 kB/s)
Selecting previously unselected package ssl-cert.
(Reading database ... 87976 files and directories currently installed.)
Preparing to unpack .../ssl-cert_1.1.2ubuntu1_all.deb ...
Unpacking ssl-cert (1.1.2ubuntu1) ...
Selecting previously unselected package vsftpd.
Preparing to unpack .../vsftpd_3.0.5-0ubuntu3.1_amd64.deb ...
Unpacking vsftpd (3.0.5-0ubuntu3.1) ...
Setting up ssl-cert (1.1.2ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ssl-cert.service - /usr/lib/systemd/system/ssl-cert.service.
Setting up vsftpd (3.0.5-0ubuntu3.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service - /usr/lib/systemd/system/vsftpd.service.
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
dtmek@server:/smbashare$
```

Nu skal vi have startet servicen med kommandoen

```
sudo systemctl start vsftpd
```

Resultat:

```
dtmek@server:~$ sudo systemctl start vsftpd
[sudo] password for dtmek:
dtmek@server:~$
```

Derefter skal vi være sikker på at FTP server også starter efter genstart af server.

```
sudo systemctl enable vsftpd
```

Resultat:

```
dtmek@server:~$ sudo systemctl enable vsftpd
Synchronizing state of vsftpd.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable vsftpd
dtmek@server:~$
```

Inden vi begynder at pille ved konfigurationen er det en god ide at tage en kopi af den originale konfigurationsfil med kommandoen:

```
sudo cp /etc/vsftpd.conf /etc/vsftpd.conf_default
```

Resultat:

```
dtmek@server:~$ sudo cp /etc/vsftpd.conf /etc/vsftpd.conf_default
dtmek@server:~$
```

Så åbner vi lige firewall for port 20 ,og 21 (FTP porte) med disse 2 kommandoer:

```
sudo ufw allow 20/tcp  
sudo ufw allow 21/tcp
```

Resultat:

```
dtmek@server:~$ sudo ufw allow 20/tcp  
Rules updated  
Rules updated (v6)  
dtmek@server:~$ sudo ufw allow 21/tcp  
Rules updated  
Rules updated (v6)  
dtmek@server:~$
```

Så skal vi lige have skiftet vores standard login til vores elev bruger. Det betyder vi skal have skiftet det bibliotek der vises når du logger ind på FTP. Det skal selvfølgelig henvise til vores sambashare der jo hedder sambashare og er placeret i / biblioteket. Det gør vi med denne kommando: `sudo usermod -d /sti/til/bibliotek brugernavn` Og her bliver det så:

```
sudo usermod -d /sambashare elev
```

Resultat:

```
dtmek@server:~$ sudo usermod -d /sambashare elev  
dtmek@server:~$
```

Vi genstarter lige vores FTP service:

```
sudo systemctl restart vsftpd.service
```

Resultat:

```
dtmek@server:~$ sudo systemctl restart vsftpd.service  
dtmek@server:~$
```

I Princippet virker FTP server nu. Men ftp bruger har lov til at bevæge sig udenfor sit eget bibliotek (/sambashare) Det er jo ikke godt, Hvordan klarer man det? Jo man sætter bare en lille kommando i konfig filen til FTP server. Vi redigerer filen med kommandoen:

```
sudo nano /etc/vsftpd.conf
```

Herefter indsættes følgende konfiguration (Konfigurationen findes som tekstfil, med nummer 04A):

```
##### Konfiguration start #####
# Run standalone? vsftpd can run either from an inetd or as a standalone
# daemon started from an initscript.
listen=NO
#
# This directive enables listening on IPv6 sockets. By default, listening
# on the IPv6 "any" address (:::) will accept connections from both IPv6
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and IPv6
# sockets. If you want that (perhaps because you want to listen on
specific
# addresses) then you must run two copies of vsftpd with two
configuration
# files.
listen_ipv6=YES
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=NO
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Activate directory messages - messages given to remote users when they
# go into a certain directory.
dirmessage_enable=YES
#
# If enabled, vsftpd will display directory listings with the time
# in your local time zone. The default is to display GMT. The
# times returned by the MDTM FTP command are also affected by this
# option.
use_localtime=YES
#
# Make sure PORT transfer connections originate from port 20 (ftp-data).
connect_from_port_20=YES
#
# You may fully customise the login banner string:
ftpd_banner= FTP Server Lavet af Elev
#
# You may restrict local users to their home directories. See the FAQ
for
# the possible risks in this before using chroot_local_user or
# chroot_list_enable below.
chroot_local_user=YES
allow_writeable_chroot=YES
pasv_enable=Yes
pasv_max_port=30010
pasv_min_port=30000
setproctitle_enable=YES
##### Konfiguration slut #####
```

For at gemme ændringer trykkes der CTRL+S og så CTRL+X, og man er tilbage i prompten.

Nu har vi lavet en ændring i FTP servicen, så vi bliver nødt til at genstarte servicen med kommandoen:

```
sudo systemctl restart vsftpd.service
```

Resultat:

```
dtmek@server:~$ sudo systemctl restart vsftpd.service
dtmek@server:~$
```

Du kan nu tilgå FTP med din bruger elev fra en FTP klient (f.eks. FileZilla)

Så er FTP opgaven blevet løst.

