# **Tutorial Seting FTP Server Oleh Andi Novianto**

## Cara instalasi FTP Server dengan Proftpd

- Jalankan ubuntu, pastikan terkoneksi jaringan lokal. Dalam contoh ini terkoneksi wifi dengan ip address : 192.168.120.233
- Masuk console ubuntu kemudian restart ssh server dengan perintah : #/etc/init.d/ssh restart
- 3. Akses ssh server ubuntu dengan putty.



4. Pastikan server sudah diupdate dan diupgrade terlebih dahulu. Kemudian instal ProFTPD



5. Tambahkan user baru dengan nama ftpuser

🗬 root@ubuntu-2204: ~

root@ubuntu-2204:~# adduser ftpuser
Adding user `ftpuser'
Adding new group `ftpuser' (1003)
Adding new user `ftpuser' (1003) with group `ftpuser'
Creating home directory `/home/ftpuser'
Copying files from `/etc/skel'
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for ftpuser
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] y
root@ubuntu-2204:~#

6. buat folder khusus untuk user FTP

Proot@ubuntu-2204: ~

```
root@ubuntu-2204:~# mkdir -p /home/ftpuser/ftp
root@ubuntu-2204:~# chown nobody:nogroup /home/ftpuser/ftp/
root@ubuntu-2204:~# chmod a-w /home/ftpuser/ftp/
root@ubuntu-2204:~#
```

7. Lalu buat folder upload (agar bisa menulis):



8. Untuk mengedit konfigurasi FTP Server, buka file /etc/proftpd/proftpd.conf

root@ubuntu-2204: ~
root@ubuntu-2204: ~
root@ubuntu-2204: ~# nano /etc/proftpd/proftpd.conf
root@ubuntu-2204: ~#

Dalam contoh ini, abaikan saja sementara konfigurasi tersebut (tidak ada perubahan apapun)

9. Restart FTP Server



10. Untuk mengujinya, gunakan command prompt windows



11. Untuk mengupload file, gunakan perintah put



12. Periksa isi file dalam folder



- 13. Untuk mendownload gunakan perintah get namafile atau mget \*.txt untuk mendownload multi file
- 14. Selain cara tersebut, bisa menggunakan web browser atau filezila

### Cara instalasi OpenSSL dengan Proftpd

15. install openssl

root@ubuntu-2204:~# apt install openssl Reading package lists... Done Building dependency tree... Done Reading state information... Done The following packages were automatically installed and are no longer required: libflashrom1 libftdi1-2 libllvm13 virtualbox-guest-utils Use 'apt autoremove' to remove them. The following packages will be upgraded: openssl 1 upgraded, 0 newly installed, 0 to remove and 295 not upgraded. Need to get 0 B/1,186 kB of archives. After this operation, 0 B of additional disk space will be used.

16. Buat Sertifikat SSL Sendiri (Self-Signed)

Bagian Perintah	Artinya
openssl req	Jalankan tool OpenSSL untuk membuat sertifikat
-x509	Minta sertifikat dalam format X.509 (format standar SSL/TLS)
-nodes	No DES → artinya private key tidak diproteksi password (supaya server bisa otomatis jalan tanpa harus ketik password tiap kali restart)
-days 365	Masa berlaku sertifikat → 365 hari (1 tahun)
-newkey rsa:2048	Bikin <b>private key baru</b> pakai algoritma <b>RSA</b> dengan ukuran <b>2048 bit</b> (aman & umum dipakai)
-keyout /etc/ssl/private/proftpd.key	File hasil untuk <b>private key</b> disimpan di sini
-out /etc/ssl/certs/proftpd.crt	File hasil untuk <b>sertifikat publik (CRT)</b> disimpan di sini

17. Lengkapi pengisian data negara, organisasi dan lainnya

Country Name (2 letter code) [AU]:ID State or Province Name (full name) [Some-State]:Jawa Tengah Locality Name (eg, city) []:Surakarta Organization Name (eg, company) [Internet Widgits Pty Ltd]:Computer Organizational Unit Name (eg, section) []:IT Cyber Common Name (e.g. server FQDN or YOUR name) []:Ubuntu Email Address []:adminqq@gmail.com root@ubuntu-2204:~#

18. Edit file proftpd.conf

#nano /etc/proftpd/proftpd.conf



19. Cari baris # Include /etc/proftpd/tls.conf kemudian hapus tanda pagar tersebut



Selengkapnya

Include /etc/proftpd/modules.conf UseIPv6 on <IfModule mod\_ident.c> IdentLookups off </IfModule> ServerName "Debian" ServerType standalone DeferWelcome off DefaultServer on

ShowSymlinks on

TimeoutNoTransfer 600

TimeoutStalled 600

TimeoutIdle 1200

DisplayLogin welcome.msg

DisplayChdir .message true

ListOptions "-l"

DenyFilter \\*.\*/

Port 21

PassivePorts 30000 31000

<IfModule mod\_dynmasq.c>

# DynMasqRefresh 28800

</IfModule>

MaxInstances 30

User proftpd

Group nogroup

Umask 022 022

AllowOverwrite on

TransferLog /var/log/proftpd/xferlog

SystemLog /var/log/proftpd/proftpd.log

<IfModule mod\_quotatab.c>

QuotaEngine off

</IfModule>

<IfModule mod\_ratio.c>

Ratios off

</IfModule>

<IfModule mod\_delay.c>

DelayEngine on

</IfModule>

<IfModule mod\_ctrls.c>

ControlsEngine off

ControlsMaxClients 2

 $Controls Log \ /var/log/proftpd/controls.log$ 

ControlsInterval 5

ControlsSocket /var/run/proftpd/proftpd.sock

</IfModule>

<IfModule mod\_ctrls\_admin.c>

AdminControlsEngine off

</IfModule>

Include /etc/proftpd/tls.conf

Include /etc/proftpd/conf.d/

20. Edit File TLS Config

🛃 root@ubuntu-2204: ~

root@ubuntu-2204:~# cp /etc/proftpd/tls.conf /etc/proftpd/tls.conf-ori
root@ubuntu-2204:~# nano /etc/proftpd/tls.conf

21. Pastikan isinya seperti ini:

🚰 root@ubuntu-2204: ~	-
GNU nano 6.2	<pre>/etc/proftpd/tls.conf *</pre>
<ifmodule mod_tls.c=""></ifmodule>	
PassivePorts 30000 31000	
TLSEngine	on
TLSLog	/var/log/proftpd/tls.log
TLSProtocol	TLSv1.2 TLSv1.3
TLSRSACertificateFile	<pre>/etc/ssl/certs/proftpd.crt</pre>
TLSRSACertificateKeyFile	<pre>/etc/ssl/private/proftpd.key</pre>
TLSOptions	NoSessionReuseRequired
TLSVerifyClient	off
TLSRequired	on

Baris Konfigurasi	Artinya
<ifmodule mod_tls.c=""></ifmodule>	Hanya jalankan konfigurasi ini <b>jika modul TLS</b> <b>aktif</b> (mod_tls)

Baris Konfigurasi	Artinya
TLSEngine on	Aktifkan fitur TLS/SSL di ProFTPD → FTP jadi FTPS (secure)
TLSLog /var/log/proftpd/tls.log	Semua log TLS disimpan di file ini → untuk cek error/aktivitas TLS
TLSProtocol TLSv1.2 TLSv1.3	Hanya izinkan TLS versi 1.2 dan 1.3 (versi aman). X Tidak izinkan versi lawas seperti SSLv3/TLSv1.0/TLSv1.1 yang rawan.
TLSRSACertificateFile /etc/ssl/certs/proftpd.crt	File sertifikat publik yang server pakai untuk enkripsi
TLSRSACertificateKeyFile /etc/ssl/private/proftpd.key	File private key yang cocok dengan sertifikat → jangan bocor
TLSOptions NoSessionReuseRequired	■ Nonaktifkan sesi TLS yang reuse → meningkatkan kompatibilitas dengan klien FTP tertentu
TLSVerifyClient off	X Tidak wajib client FTP punya sertifikat → user cukup login pakai username/password biasa
TLSRequired on	<ul> <li>✓ Wajib semua koneksi FTP harus pakai TLS</li> <li>→ tidak boleh FTP biasa yang unsecure</li> </ul>

22. Buka Port Passive di Firewall

🞤 root@ubuntu-2204: ~



23. Restart ProFTPD



- 24. Akses ftps dengan filezila. Pilih menu File Site Manager klik New Site
  - a. Isi kolom berikut:
    - **Host** → 192.168.120.233

(Ganti sesuai IP server FTP)

 $\circ \quad \textbf{Port} \rightarrow 21$ 

(Karena kita pakai Explicit FTP over TLS, tetap di port 21, bukan 990)

- Protocol → Pilih → "FTP File Transfer Protocol"
- Encryption → Pilih → "Require explicit FTP over TLS"

→ Jangan pilih "implicit" karena itu beda protokol dan beda port (990).

- Logon Type  $\rightarrow$  Pilih  $\rightarrow$  "Normal"
- User → Isi dengan username FTP kamu
   (contoh: ftpuser)
- **Password**  $\rightarrow$  Isi dengan password user FTP
- b. Klik "Connect"
  - → Akan muncul popup "Unknown certificate" (karena pakai sertifikat self-signed).
  - → Centang → "Always trust this certificate"
  - → Klik **OK** untuk melanjutkan.

Site Manager	×
Select entry:	General Advanced Transfer Settings Charset
□- ► My Sites □- ↓ FTP SECURE UBUNTU	Protocol: FTP - File Transfer Protocol
	Host: 192.168.120.233 Port: 21
	Encryption: Require explicit FTP over TLS
	Logon Type: Normal V
	User: ftpuser
	Password: •••
, ,	Background color: None ~
	Comments:
New site New folder	^
New Bookmark Rename	
Delete Duplicate	×
	Connect OK Cancel

#### 25. Jika sampai tahap ini masih muncul error

File Edit View Transfer Server Bookmarks Help New version available!
₩ - ■ = = # 8 № 8 ↓ = £ ♦ %
Host: ftps://192.168.12C Username: ftpuser Password: ••• Port: 21 Quickconnect 💌
Command: AUTH SSL
Response: 500 AUTH not understood
Error: Critical error: Could not connect to server
Status: Disconnected from server
Status: Connecting to 192.168.120.233:21
Status: Connection established, waiting for welcome message
Response: 220 ProFTPD Server (Debian) [::fff:192.168.120.233]
Command: AUTH TLS
Response: 500 AUTH not understood
Command: AUTH SSL
Response: 500 AUTH not understood
Error: Critical error: Could not connect to server
Local site: C:\Users\Lenovo\

26. Pastikan modul mod\_tls sudah diaktifkan



#### 27. Install modul tls

```
root@ubuntu-2204:~# apt install proftpd-mod-crypto
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no long
libflashrom1 libftdi1-2 libllvm13 virtualbox-guest-utils
Use 'apt autoremove' to remove them.
The following NEW packages will be installed:
```

28. Restart proftpd

systemctl restart proftpd

29. Periksa apakah mod\_tls sudah aktif

Proot@ubuntu-2204: /etc/proftpd



30. Karena tidak muncul lakukan perintah sebagai berikut

ln -s /etc/proftpd/modules.conf /etc/proftpd/modules.conf.bak sed -i 's|#LoadModule mod\_tls.c|LoadModule mod\_tls.c|' /etc/proftpd/modules.conf systemctl restart proftpd

#### 31. Kemudian periksa kembali



#### 32. Lanjutkan koneksi filezila

Z FTP SECURE UBUNTU - ftpes://ftpuser@192.168.120.233 - FileZilla												
File Edit View Transfer Server Bookmarks Help. New version available												
	- V 15 W .x ./	<b>=</b>										
Host: ftps://192.168.120	Username: ftpuser	Password:	•••	Port: 21	Quickconnect 💌							
Error:       GnuTLS error - 15: An unexpected TLS packet was received.         Status:       Connection attempt failed with "ECONNABORTED - Connection aborted".         Error:       Could not connect to server         Status:       Disconnected from server         Status:       Connection of 192.168.120.232.1         Status:       Connection established, waiting for welcome message         Status:       Initializing TLS         Status:       Status:         Status:       Longed in         Status:       Retreving directory listing         Status:       Retreving directory listing         Status:       Retreving directory listing of 'home/rtpuer' successful												
Local site: C:\Users\Leno	vo\					~	Remote site: /home/f	tpuser				
				~	□ ? / □ ? home ⊕ ] ftpuser							
Filename	Filesize Filetype	Last modified				^	Filename ^	Filesize	Filetype	Last modifi	Permissi	Owner/Gr
	File folder File folder File folder File folder File folder File folder	21/03/2024 14 14/08/2024 03 09/04/2021 21 02/03/2024 08 28/05/2024 15 10/12/2020 15					ftp     .bash_logout     .bashrc     .profile     fileupload.txt	220 3.771 807 0	File folder Bash Lo Bash RC Profile S Text Doc	06/05/2025 06/05/2025 06/05/2025 06/05/2025 06/05/2025	fle (0555) adfrw (0 adfrw (0 adfrw (0 adfrw (0	ftpuser ft ftpuser ft ftpuser ft ftpuser ft
fontconfig	File folder	28/12/2024 14					I					

- 33. Selamat dan sukses, Anda telah berhasil menseting FTPS dengan ubuntu
- 34. S
- 35. S
- 36.