

LAPORAN INSTALASI APAHCE & REMOTE SERVER

Diajukan Untuk Memenuhi Salah Satu Tugas Mata Kuliah Pemrosesan Paralel



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PROSES INSTALASI APACHE

STEP 1 : Sebelum menginstall, update terlebih dahulu sistem ubuntu server dengan perintah

fakhrinaufal@newtzy:~\$ sudo apt update

```
fakhrinaufal@newtzy:~$ sudo apt-get update
[sudo] password for fakhrinaufal:
Hit:1 http://id.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:3 http://id.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://id.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [995 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.0 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Fetched 1,263 kB in 2s (683 kB/s)
Reading package lists... Done
fakhrinaufal@newtzy:~$ _
```

STEP 2 : Selanjutnya install apache2 dengan cara memasukkan perintah berikut

fakhrinaufal@newtzy:~\$ sudo apt install apache2

```
fakhrinaufal@newtzy:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu4.6).
The following packages were automatically installed and are no longer required:
  alsa-topology-conf alsa-ucm-conf bubblewrap docbook-xml glib-networking glib-networking-common
  glib-networking-services libasound2 libasound2-data libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libegl-mesa0 libegl1 libgbm1 libglapi-mesa libglvnd0 libgraphene-1.0-0 libl1vm15
  libpciaccess0 libproxy1v5 libwayland-server0 libx11-xcb1 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0
  libxcb-present0 libxcb-randr0 libxcb-sync1 libxcb-xf86vm1 libxxf86vm1 sgml-base
  sgml-data xml-core
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 33 not upgraded.
fakhrinaufal@newtzy:~$ _
```

STEP 3 : Kita cek apakah apache2 sudah terinstal diubuntu server kita

fakhrinaufal@newtzy:~\$ sudo ufw app list

```
fakhrinaufal@newtzy:~$ sudo ufw app list
[sudo] password for fakhrinaufal:
Available applications:
  Apache
  Apache Full
  Apache Secure
  Nginx Full
  Nginx HTTP
  Nginx HTTPS
  OpenSSH
fakhrinaufal@newtzy:~$
```

STEP 4 : Selanjutnya kita cek status dari apache2

fakhrinaufal@newtzy:~\$ sudo systemctl status apache2

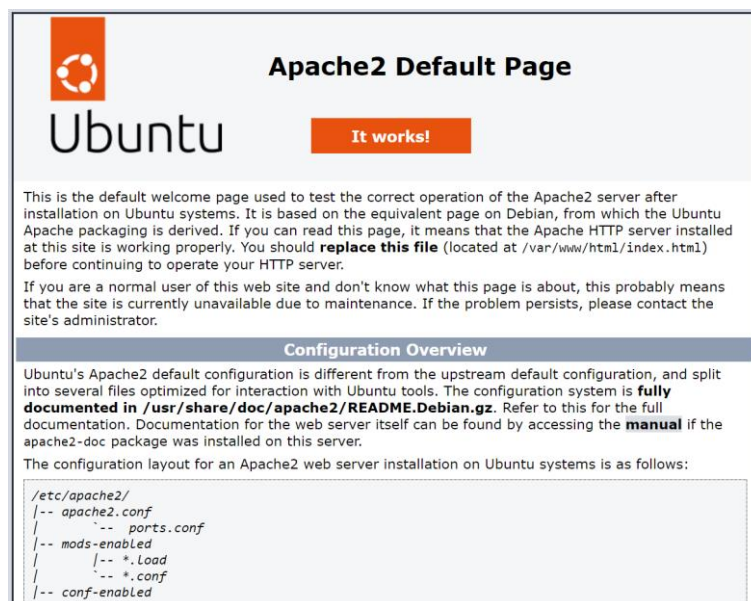
```
fakhrinaufal@newtzy:~$ sudo systemctl status apache2
• apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2023-10-25 08:28:07 UTC; 1h 38min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 1356 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 1360 (apache2)
    Tasks: 11 (limit: 2163)
   Memory: 147.7M
      CPU: 24.234s
   CGroup: /system.slice/apache2.service
           └─1360 /usr/sbin/apache2 -k start
             └─1361 /usr/sbin/apache2 -k start
               └─1382 /usr/sbin/apache2 -k start
                 └─1390 /usr/sbin/apache2 -k start
                   └─1563 /usr/sbin/apache2 -k start
                     └─1566 /usr/sbin/apache2 -k start
                       └─1575 /usr/sbin/apache2 -k start
                         └─1578 /usr/sbin/apache2 -k start
                           └─1640 /usr/sbin/apache2 -k start
                             └─1642 /usr/sbin/apache2 -k start
                               └─1643 /usr/sbin/apache2 -k start

Oct 25 08:28:07 newtzy systemd[1]: Starting The Apache HTTP Server...
Oct 25 08:28:07 newtzy apachectl[1359]: AH00558: apache2: Could not reliably determine the server's s
Oct 25 08:28:07 newtzy systemd[1]: Started The Apache HTTP Server.
lines 1-25/25 (END)
```

STEP 5 : Selanjutnya pengecekan diweb browser, apakah apache2 berjalan dengan cara memasukkan ip kita

fakhrinaufal@newtzy:~\$ ifconfig | fakhrinaufal@newtzy:~\$ hostname -I

```
fakhrinaufal@newtzy:~$ hostname -I
10.8.143.126 192.168.56.102
fakhrinaufal@newtzy:~$
```



Jika telah keluar seperti ini berarti penginstalan apache2 berhasil diubuntu server 22.04

PROSES INSTALASI OPEN SSH, PUTTY

Instalasi OpenSSH

STEP 1 : Install OpenSSH diubuntu server menggunakan perintah berikut

fakhrinaufal@newtzy:~\$ sudo apt install ssh

```
fakhrinaufal@newtzy:~$ sudo apt install ssh
[sudo] password for fakhrinaufal:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ssh is already the newest version (1:8.9p1-3ubuntu0.4).
The following packages were automatically installed and are no longer required:
  alsa-topology-conf alsa-ucm-conf bubblewrap docbook-xml glib-networking glib-networking-common
  glib-networking-services libasound2 libasound2-data libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libegl-mesa0 libegl1 libgbm1 libglapi-mesa libglvnd0 libgraphene-1.0-0 liblvm15
  libpciaccess0 libproxy1v5 libwayland-server0 libx11-xcb1 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0
  libxcb-present0 libxcb-randr0 libxcb-sync1 libxcb-xf86vm1 libxshmfence1 libxxf86vm1 sgml-base
  sgml-data xml-core
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
fakhrinaufal@newtzy:~$ _
```

OpenSSH sudah berhasil diinstall

STEP 2 : Mengecek list application yang telah terinstall tadi dengan cara

fakhrinaufal@newtzy:~\$ sudo ufw app list

```
fakhrinaufal@newtzy:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  Nginx Full
  Nginx HTTP
  Nginx HTTPS
  OpenSSH
```

Disini sudo tertera aplikasi OpenSSH jadi sudah terinstall

STEP 3 : Mengaktifkan OpenSSH dengan perintah berikut

fakhrinaufal@newtzy:~\$ sudo ufw allow OpenSSH

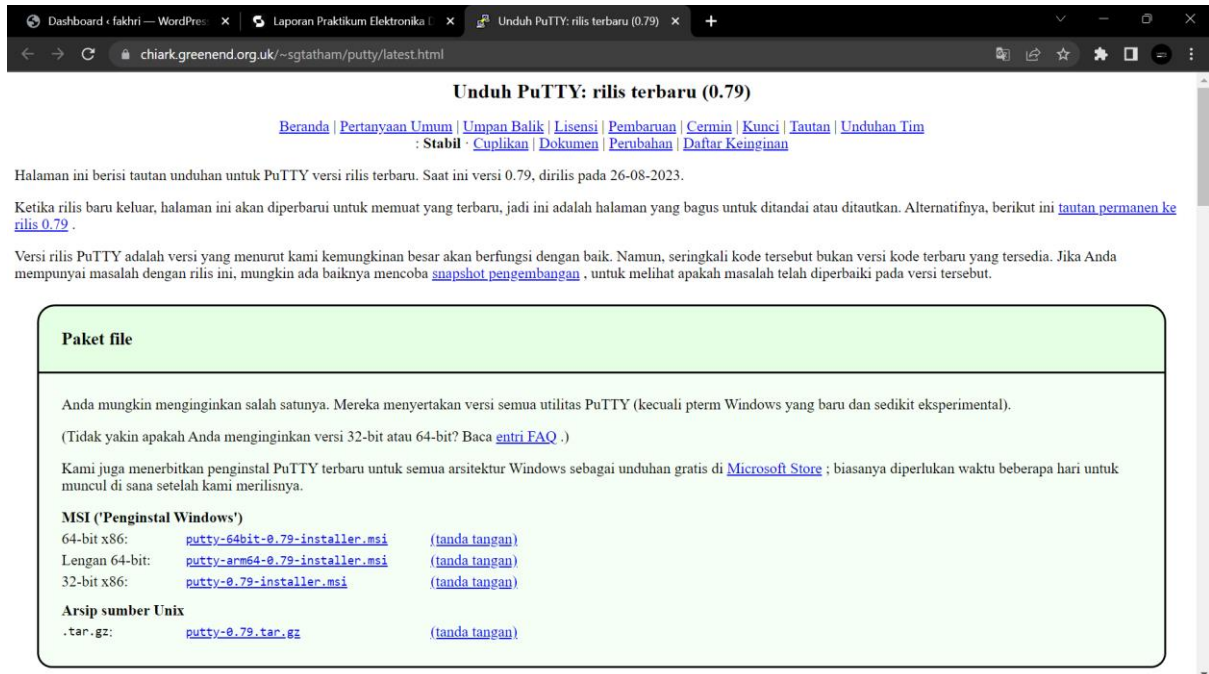
```
fakhrinaufal@newtzy:~$ sudo ufw allow OpenSSH
Skipping adding existing rule
Skipping adding existing rule (v6)
fakhrinaufal@newtzy:~$
```

Karna disini saya sudah mengaktifkannya jadi keluar commend seperti diatas

PROSES REMOTE SERVER

Instalasi Putty

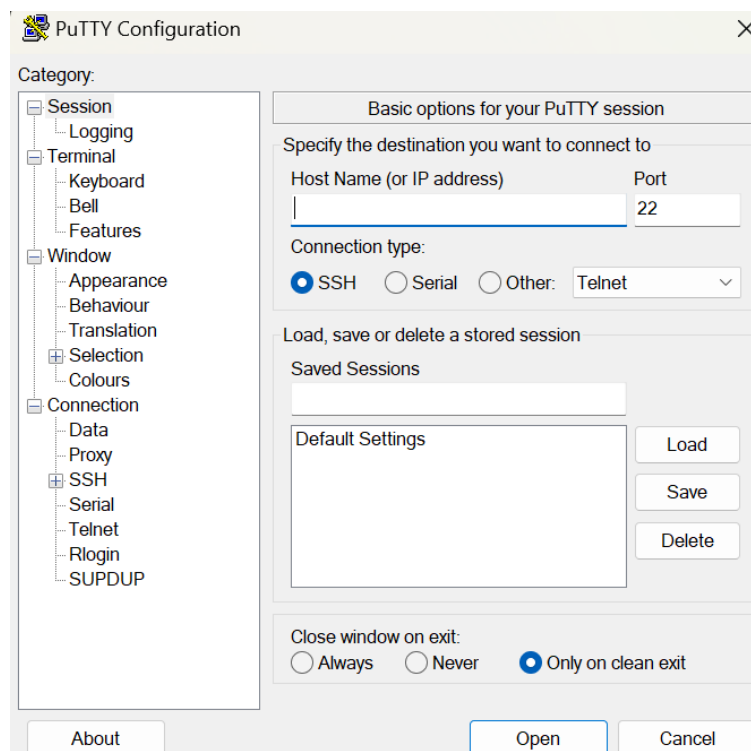
STEP 1 : Instalasi Aplikasi Putty di windows masing masing



The screenshot shows the PuTTY website's download page for version 0.79. The page title is "Unduh PuTTY: rilis terbaru (0.79)". It includes a navigation bar with links like Beranda, Pertanyaan Umum, Umpan Balik, Lisensi, and others. The main content area explains that this is the latest version (0.79) released on 26-08-2023. It provides instructions on how to use the page and offers links to the permanent release page. A section titled "Paket file" (File packages) lists various download options: MSI installers for 64-bit x86, 64-bit ARM, and 32-bit x86, as well as a source code tar.gz file for Unix. Each link is accompanied by a "(tanda tangan)" (signature) link.

Disini kita install PuTTY yang MSI (For Windows) yang 64-bit x86, download sampai selesai.

STEP 2 : Bukak Aplikasi PuTTY yang sudah terinstall tadi



Selanjutnya isi bagian hostname Ubuntu Server masing masing, sebelum memasukkan hostname pastikan ubuntu server divirtual box sudah login terlebih dahulu.

```
fakhrinaufal@newtzy: ~  
login as: fakhrinaufal  
fakhrinaufal@192.168.47.180's password:  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-87-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Fri Oct 27 01:15:31 PM UTC 2023  
  
System load:  0.0087890625      Processes:            121  
Usage of /:   67.8% of 9.75GB    Users logged in:     1  
Memory usage: 31%              IPv4 address for enp0s3: 192.168.47.180  
Swap usage:   0%               IPv4 address for enp0s8: 192.168.56.102  
  
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s  
  just raised the bar for easy, resilient and secure K8s cluster deployment.  
  
https://ubuntu.com/engage/secure-kubernetes-at-the-edge  
  
Expanded Security Maintenance for Applications is not enabled.  
  
20 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your  
Internet connection or proxy settings  
  
Last login: Fri Oct 27 13:08:01 2023  
fakhrinaufal@newtzy:~$
```

Tinggal Login dengan username diubuntu server lalu masukkan password. Selesai

Remote Dari CMD

STEP 1 : Bukak lah cmd pada windows, lalu ketikan perintah dibawah ini

C:\Users\User> SSH 'username ubuntu server'@'localhost'

```
fakhrinaufal@newtzy: ~  
Microsoft Windows [Version 10.0.22621.2428]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\User>SSH fakhrinaufal@192.168.47.180  
fakhrinaufal@192.168.47.180's password:  
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-87-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Fri Oct 27 01:21:34 PM UTC 2023  
  
System load:  0.11279296875      Processes:            123  
Usage of /:   67.8% of 9.75GB    Users logged in:     1  
Memory usage: 33%              IPv4 address for enp0s3: 192.168.47.180  
Swap usage:   0%               IPv4 address for enp0s8: 192.168.56.102  
  
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s  
  just raised the bar for easy, resilient and secure K8s cluster deployment.  
  
https://ubuntu.com/engage/secure-kubernetes-at-the-edge  
  
Expanded Security Maintenance for Applications is not enabled.  
  
20 updates can be applied immediately.  
To see these additional updates run: apt list --upgradable  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
```

Tinggal login seperti biasa. Selesai

Remote Dari Ubuntu Server

STEP 1 : Download Ubuntu Desktop Digoogole <https://ubuntu.com/download/desktop>

Ubuntu 22.04.3 LTS

Ubuntu versi LTS terbaru , untuk PC desktop dan laptop. LTS adalah singkatan dari dukungan jangka panjang — yang berarti pembaruan keamanan dan pemeliharaan gratis selama lima tahun, dijamin hingga April 2027.

[Catatan rilis Ubuntu 22.04 LTS](#)

Persyaratan sistem yang disarankan:

✓ Prosesor dual-core 2 GHz atau lebih baik	✓ Akses internet sangat membantu
✓ Memori sistem 4 GB	✓ Baik DVD drive atau port USB untuk media installer
✓ Ruang hard drive kosong 25 GB	

Unduh 22.04.3

Untuk versi Desktop Ubuntu lainnya termasuk torrent, penginstal jaringan, daftar mirror lokal, dan rilis sebelumnya, [lihat unduhan alternatif kami](#) .

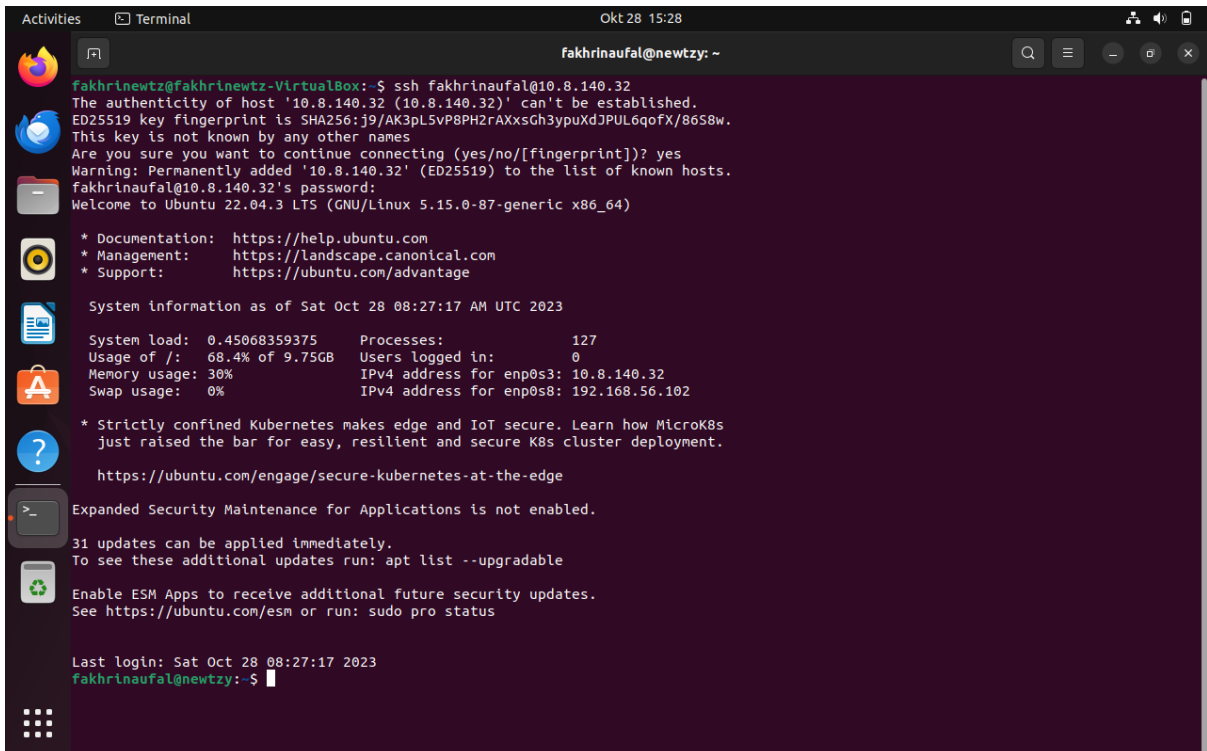
STEP 2 : Install Ubuntu Desktop diVM VirtualBox untuk menjalankannya

The screenshot shows the Oracle VM VirtualBox Manager interface. On the left, a list of machines includes 'Ubuntu Server 22.04' and 'Ubuntu Desktop 22.04', both with a 'Powered Off' status. The 'Ubuntu Desktop 22.04' machine is selected. The main pane displays the configuration settings for this machine, organized into sections: General, System, Display, Storage, Audio, and Network. The 'General' section shows the name 'Ubuntu Desktop 22.04' and the operating system 'Ubuntu (64-bit)'. The 'System' section shows a base memory of 2000 MB, 2 processors, and a boot order of Floppy, Optical, and Hard Disk. The 'Display' section shows a video memory of 16 MB and a graphics controller of VMSVGA. The 'Storage' section shows an IDE controller with an empty optical drive and a SATA controller with a 25,00 GB VDI disk. The 'Audio' section shows a default host driver and an ICH AC97 controller. A 'Preview' window on the right shows the Ubuntu Desktop 22.04 logo.

Jika sudah, langsung saja jalankan dan ikuti proses instalasi seperti biasa.

STEP 3 : Bukak terminal diubuntu desktop lalu ketikan perintah berikut

fakhrinewtz@fakhrinewtz-VirtualBox:~\$ ssh 'username ubuntu server'@'localhost'



```
fakhrinewtz@fakhrinewtz-VirtualBox:~$ ssh fakhrinaufal@10.8.140.32
The authenticity of host '10.8.140.32 (10.8.140.32)' can't be established.
ED25519 key fingerprint is SHA256:j9/AK3pL5vP8PH2rAXxsGh3ypuXdJPUL6qofX/8658w.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.8.140.32' (ED25519) to the list of known hosts.
fakhrinaufal@10.8.140.32's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-87-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Sat Oct 28 08:27:17 AM UTC 2023

System load:  0.45068359375   Processes:            127
Usage of /:   68.4% of 9.75GB   Users logged in:      0
Memory usage: 30%            IPv4 address for enp0s3: 10.8.140.32
Swap usage:   0%              IPv4 address for enp0s8: 192.168.56.102

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.
   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

31 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sat Oct 28 08:27:17 2023
fakhrinaufal@newtz:~$
```

Jika berhasil seperti gambar diatas, remote dari ubuntu desktop sudah berhasil. Sekarang bisa remote server diubuntu desktop

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