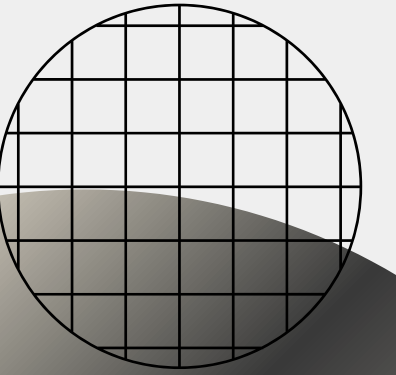# Presentasi membuat mesin virtual server beserta konfigurasinya

Anggota Kelompok

Ibnu Fahrezi
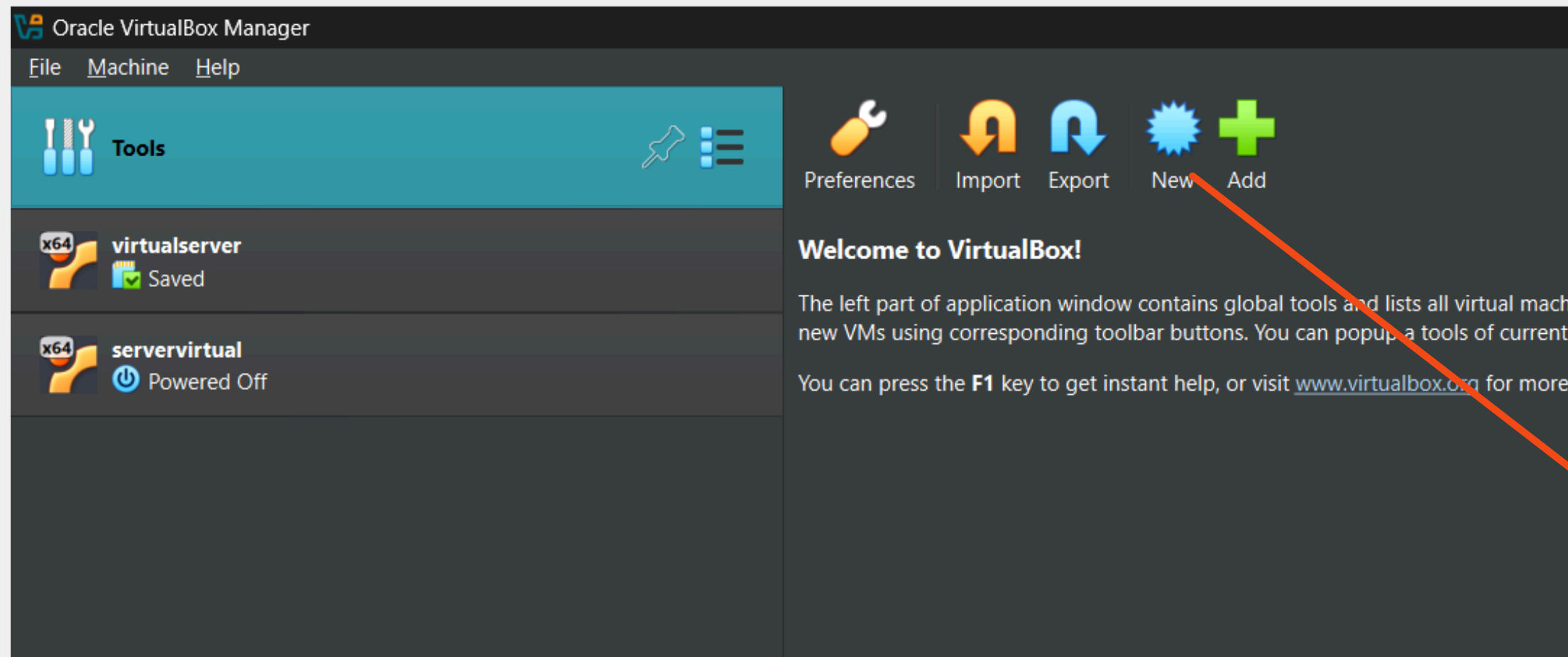
222016

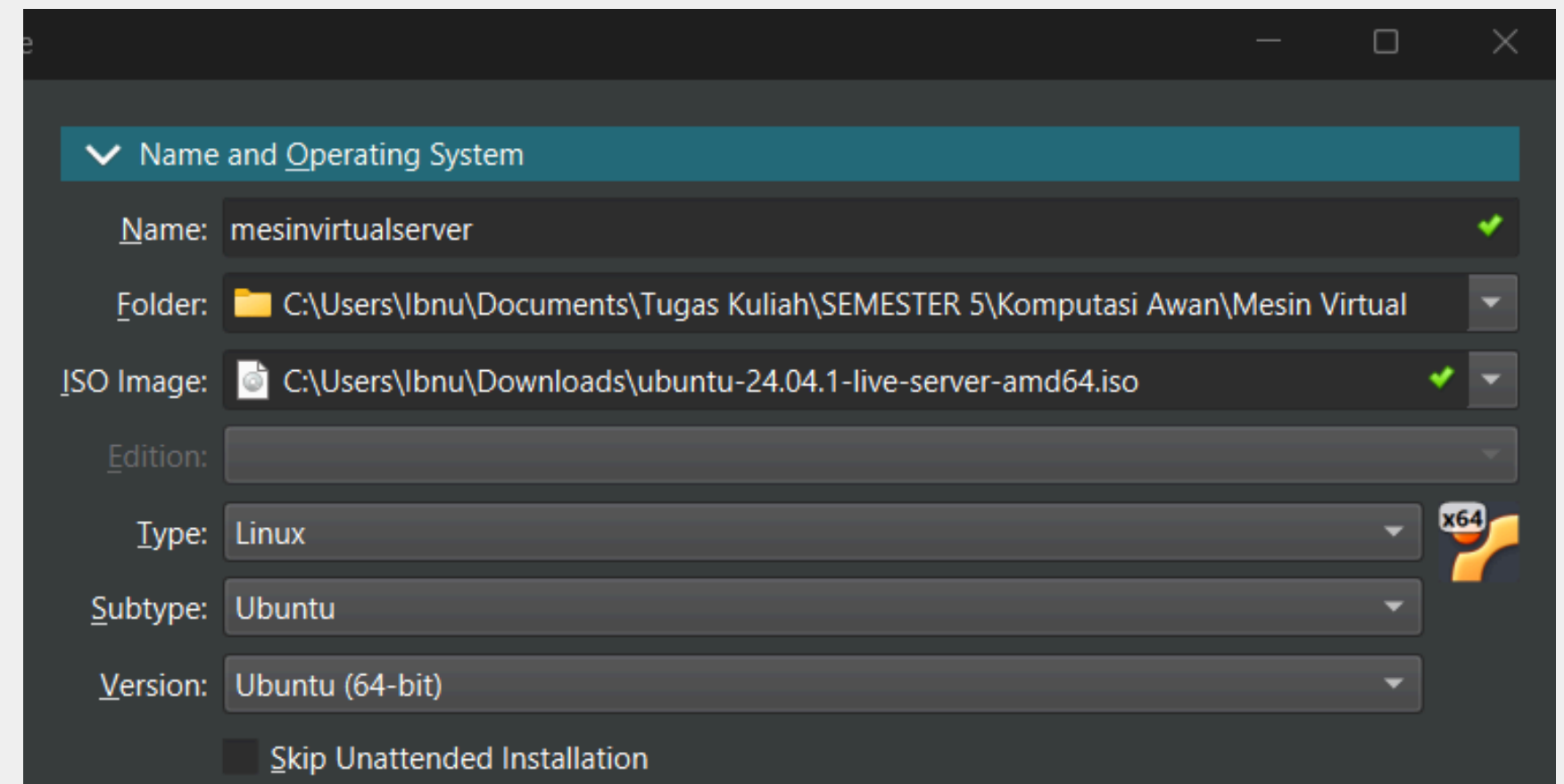**Alpian**

222033

Hidayatullah

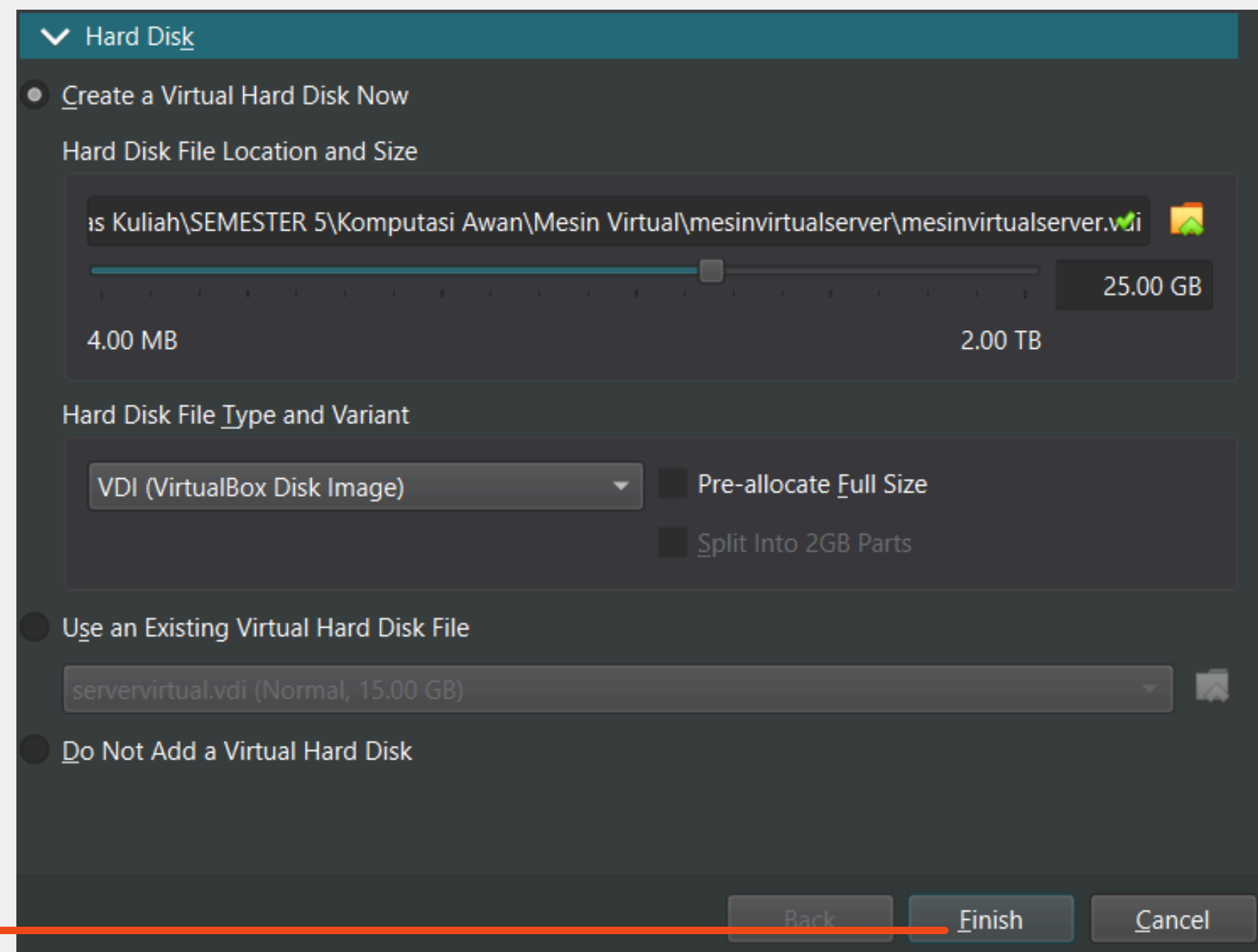222036

Oracle VirtualBox Manager

File Machine Help

Tools

virtualserver
Saved

servervirtual
Powered Off

Preferences Import Export New Add

Welcome to VirtualBox!

The left part of application window contains global tools and lists all virtual machi
new VMs using corresponding toolbar buttons. You can popup a tools of current

You can press the **F1** key to get instant help, or visit www.virtualbox.org for more

Membuat Mesin Virtual

3

Name and Operating System

Name: mesinvirtualserver

Folder: C:\Users\Ibnu\Documents\Tugas Kuliah\SEMESTER 5\Komputasi Awan\Mesin Virtual

ISO Image: C:\Users\Ibnu\Downloads\ubuntu-24.04.1-live-server-amd64.iso

Edition:

Type: Linux

Subtype: Ubuntu

Version: Ubuntu (64-bit)

Skip Unattended Installation

Hardware

Base Memory: 2048 MB

4 MB   16384 MB

Processors: 1

1 CPU   12 CPUs

☐ Enable EFI (special OSes only)

Memilih spesifikasi hardware dari mesin virtual yang akan kita buat

Hard Disk

● Create a Virtual Hard Disk Now

Hard Disk File Location and Size

as Kuliah\SEMESTER 5\Komputasi Awan\Mesin Virtual\mesinvirtualserver\mesinvirtualserver.vdi 🗁

25.00 GB

4.00 MB   2.00 TB

Hard Disk File Type and Variant

VDI (VirtualBox Disk Image) ▾   ☐ Pre-allocate Full Size

☐ Split Into 2GB Parts

○ Use an Existing Virtual Hard Disk File

servervirtual.vdi (Normal, 15.00 GB)

○ Do Not Add a Virtual Hard Disk

Setelah selesai menekan tombol finish agar proses instalasi dapat berlanjut

Back   Finish   Cancel

4
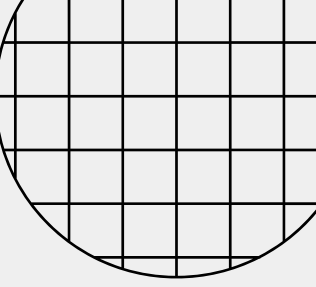
```
Willkommen! Bienvenue! Welcome! Добро пожаловать! Welkom!                    [ Help ]

Use UP, DOWN and ENTER keys to select your language.

                    [ Asturianu                                    ▶ ]
                    [ Bahasa Indonesia                              ▶ ]
                    [ Català                                        ▶ ]
                    [ Deutsch                                       ▶ ]
                    [ English                                       ▶ ]
                    [ English (UK)                                  ▶ ]
                    [ Español                                       ▶ ]
                    [ Français                                      ▶ ]
                    [ Galego                                        ▶ ]
                    [ Hrvatski                                      ▶ ]
                    [ Latviski                                      ▶ ]
                    [ Lietuviškai                                   ▶ ]
                    [ Magyar                                        ▶ ]
                    [ Nederlands                                    ▶ ]
                    [ Norsk bokmål                                  ▶ ]
                    [ Occitan                                       ▶ ]
                    [ Polski                                        ▶ ]
                    [ Português                                     ▶ ]
                    [ Suomi                                         ▶ ]
                    [ Svenska                                       ▶ ]
                    [ Čeština                                       ▶ ]
                    [ Ελληνικά                                      ▶ ]
                    [ Беларуская                                    ▶ ]
                    [ Русский                                       ▶ ]
                    [ Српски                                        ▶ ]
                    [ Українська                                    ▶ ]
```

Memilih bahasa yang akan digunakan

```
Installer update available                                          [ Help ]

Version 24.10.1 of the installer is now available (24.08.1 is currently running).

You can read the release notes for each version at:

                        https://github.com/canonical/subiquity/releases

If you choose to update, the update will be downloaded and the installation will continue from here.



                        [ Update to the new installer ]
                        [ Continue without updating    ]
                        [ Back                          ]
```

Melanjutkan tanpa update installer

5
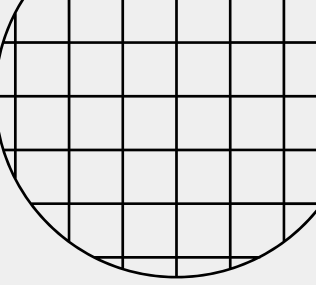
Choose the type of installation   [Help]

Choose the base for the installation.

(X) Ubuntu Server

     The default install contains a curated set of packages that provide a comfortable experience for operating your server.

( ) Ubuntu Server (minimized)

     This version has been customized to have a small runtime footprint in environments where humans are not expected to log in.

Additional options

[ ] Search for third-party drivers

     This software is subject to license terms included with its documentation. Some is proprietary. Third-party drivers should not be installed on systems that will be used for FIPS or the real-time kernel.

Memilih tipe ubuntu server (default)

Network configuration   [Help]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

    NAME   TYPE NOTES
[enp0s3 eth   -   ▶]
  DHCPv4 192.168.0.128/24
  08:00:27:af:4b:ec / Intel Corporation / 82540EM Gigabit Ethernet Controller (PRO/1000 MT Desktop Adapter)

[enp0s8 eth   -   ▶]
  DHCPv4 192.168.56.101/24
  08:00:27:76:16:6f / Intel Corporation / 82540EM Gigabit Ethernet Controller (PRO/1000 MT Desktop Adapter)

[Create bond ▶]

                    [Done   ]
                    [Back   ]

Mengkonfigurasi jaringan (IP) gunakan default saja lalu lanjutkan dengan klik done

6
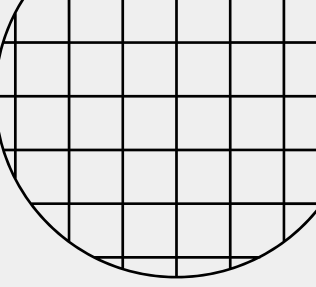
If this system requires a proxy to connect to the internet, enter its details here.

Proxy address:

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/".

Untuk proxy address dikosongkan saja karena kita hanya menggunakan local host

If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address: http://id.archive.ubuntu.com/ubuntu/
You may provide an archive mirror to be used instead of the default.

The mirror location is being tested. /

[Done]
[Back]

Kemudian proses mengisi Mirror address akan terkonfigurasi otomatis, lalu klik done

7

Pengaturan penyimpanan
Gunakan use entire disk
untuk menggunakan semua
penyimpanan yang telah
diatur di awal (20gb)

Rincian konfigurasi
penyimpanan

8
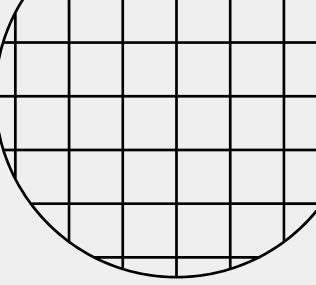
Profile configuration

Enter the username and password you will use to log in to the system. You can configure SSH access on a later screen, but a password is still needed for sudo.

```
Your name:        cloud

Your servers name: cloudserver
                   The name it uses when it talks to other computers.

Pick a username:  cloud

Choose a password: *****

Confirm your password: *****
```

Konfigurasi

Upgrade to Ubuntu Pro   [Help]

Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2034. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.
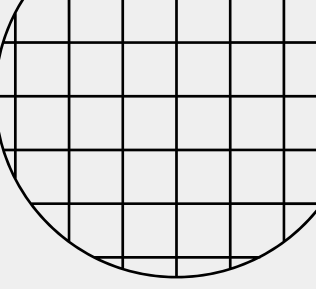
[About Ubuntu Pro ▶]

( ) Enable Ubuntu Pro

(X) Skip for now

     You can always enable Ubuntu Pro later using the 'pro attach' command.

Untuk langkah ini diskip saja karena dalam kasus ini kita tidak membutuhkan fitur dari ubuntu pro

9

```
SSH configuration

You can choose to install the OpenSSH server package to enable secure remote access to your server.

[X]  Install OpenSSH server

[X]  Allow password authentication over SSH

[ Import SSH key ▶ ]

AUTHORIZED KEYS

   No authorized key
```

Untuk langkah ini sebaiknya pilih install OpenSSH server saja walaupun dalam kasus kali ini kita tidak membutuhkannya
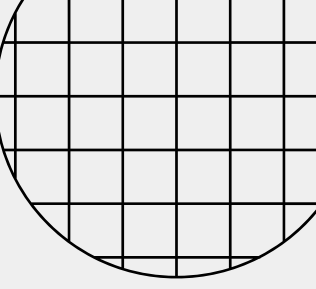


```
Featured server snaps                                                                    [ Help ]

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package,
publisher and versions available.

[ ] microk8s             canonical✓       Kubernetes for workstations and appliances                              ▶
[ ] nextcloud            nextcloud✓       Nextcloud Server - A safe home for all your data                        ▶
[ ] wekan                xet7             Open-Source kanban                                                      ▶
[ ] kata-containers      katacontainers✓  Build lightweight VMs that seamlessly plug into the containers ecosystem ▶
[ ] docker               canonical✓       Docker container runtime                                                ▶
[ ] canonical-livepatch  canonical✓       Canonical Livepatch Client                                              ▶
[ ] rocketchat-server    rocketchat✓      Rocket.Chat server                                                      ▶
[ ] mosquitto            mosquitto✓       Eclipse Mosquitto MQTT broker                                           ▶
[ ] etcd                 canonical✓       Resilient key-value store by CoreOS                                     ▶
[ ] powershell           microsoft-powershell✓ PowerShell for every system!                                      ▶
[ ] sabnzbd              safihre          SABnzbd                                                                 ▶
[ ] wormhole             snapcrafters⚠    get things from one computer to another, safely                         ▶
[ ] aws-cli              aws✓             Universal Command Line Interface for Amazon Web Services                ▶
[ ] google-cloud-sdk     google-cloud-sdk✓ Google Cloud SDK                                                      ▶
[ ] slcli                softlayer        Python based SoftLayer API Tool.                                        ▶
[ ] doctl                digitalocean✓    The official DigitalOcean command line interface                       ▶
[ ] conjure-up           canonical✓       Package runtime for conjure-up spells                                   ▶
[ ] postgresql10         cmd✓             PostgreSQL is a powerful, open source object-relational database system. ▶
[ ] heroku               heroku✓          CLI client for Heroku                                                   ▶
[ ] keepalived           keepalived-project✓ High availability VRRP/BFD and load-balancing for Linux             ▶
[ ] prometheus           canonical✓       The Prometheus monitoring system and time series database              ▶
```

Ini adalah fitur yang dapat digunakan, pilih yang ingin digunakan jika tidak ada bisa dikosongkan

10

SSH configuration

You can choose to install the OpenSSH server package to enable secure remote access to your server.

[X] Install OpenSSH server

[X] Allow password authentication over SSH

[Import SSH key ▸]

AUTHORIZED KEYS

  No authorized key

Untuk langkah ini sebaiknya pilih install OpenSSH server saja walaupun dalam kasus kali ini kita tidak membutuhkannya
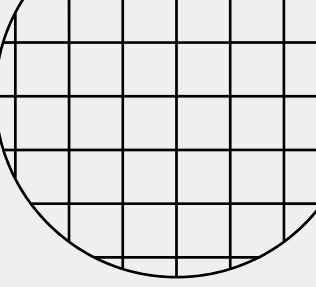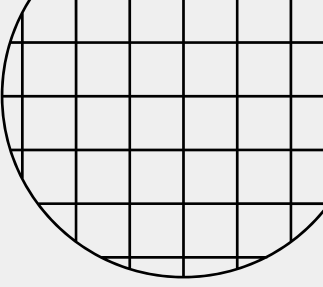

Featured server snaps   [Help]

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

[ ] microk8s   canonical✓   Kubernetes for workstations and appliances   ▸
[ ] nextcloud   nextcloud✓   Nextcloud Server - A safe home for all your data   ▸
[ ] wekan   xet7   Open-Source kanban   ▸
[ ] kata-containers   katacontainers✓   Build lightweight VMs that seamlessly plug into the containers ecosystem ▸
[ ] docker   canonical✓   Docker container runtime   ▸
[ ] canonical-livepatch canonical✓   Canonical Livepatch Client   ▸
[ ] rocketchat-server   rocketchat✓   Rocket.Chat server   ▸
[ ] mosquitto   mosquitto✓   Eclipse Mosquitto MQTT broker   ▸
[ ] etcd   canonical✓   Resilient key-value store by CoreOS   ▸
[ ] powershell   microsoft-powershell✓ PowerShell for every system!   ▸
[ ] sabnzbd   safihre   SABnzbd   ▸
[ ] wormhole   snapcrafters▨   get things from one computer to another, safely   ▸
[ ] aws-cli   aws✓   Universal Command Line Interface for Amazon Web Services ▸
[ ] google-cloud-sdk   google-cloud-sdk✓ Google Cloud SDK   ▸
[ ] slcli   softlayer   Python based SoftLayer API Tool.   ▸
[ ] doctl   digitalocean✓   The official DigitalOcean command line interface   ▸
[ ] conjure-up   canonical✓   Package runtime for conjure-up spells   ▸
[ ] postgresql10   cmd✓   PostgreSQL is a powerful, open source object-relational database system. ▸
[ ] heroku   heroku✓   CLI client for Heroku   ▸
[ ] keepalived   keepalived-project✓ High availability VRRP/BFD and load-balancing for Linux ▸
[ ] prometheus   canonical✓   The Prometheus monitoring system and time series database ▸

Ini adalah fitur yang dapat digunakan, pilih yang ingin digunakan jika tidak ada bisa dikosongkan

11

```
    writing install sources to disk
     running 'curtin extract'
      curtin command extract
       acquiring and extracting image from cp:///tmp/tmpfn2b47as/mount
 configuring keyboard
  curtin command in-target
 executing curtin install curthooks step
  curtin command install
   configuring installed system
    running 'curtin curthooks'
     curtin command curthooks
      configuring apt configuring apt
      installing missing packages
      Installing packages on target system: ['grub-pc']
      configuring iscsi service
      configuring raid (mdadm) service
      configuring NVMe over TCP
      installing kernel
      setting up swap
      apply networking config
      writing etc/fstab
      configuring multipath
      updating packages on target system
      configuring pollinate user-agent on target
      updating initramfs configuration
      configuring target system bootloader
      installing grub to target devices
      copying metadata from /cdrom
 final system configuration
 calculating extra packages to install
 installing openssh-server
  retrieving openssh-server
  curtin command system-install
  unpacking openssh-server
  curtin command system-install
 configuring cloud-init
 downloading and installing security updates
  curtin command in-target
 restoring apt configuration
  curtin command in-target
subiquity/Late/run:
```

```
                              [ View full log ]
                              [ Reboot Now    ]
```

Setelah proses tadi dijalankan, maka penginstalan akan dilakukan seperti pada gambar di samping

Setelah proses penginstalan selesai, pilih opsi reboot now untuk menjalankan Ubuntu servernya

12

Ini adalah tampilan awal setelah rebooting, di sini kita disuruh untuk memasukkan username dan password yang telah disetting pada konfigurasi server (Slide 9)

13

```
serversatu login: clouds
Password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-49-generic x86_64)

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

  System information as of Sun Nov 24 12:22:16 PM UTC 2024

  System load:            0.12
  Usage of /:             42.7% of 9.75GB
  Memory usage:           9%
  Swap usage:             0%
  Processes:              97
  Users logged in:        0
  IPv4 address for enp0s3: 10.0.2.15
  IPv6 address for enp0s3: fd00::a00:27ff:fe09:b66e

Expanded Security Maintenance for Applications is not enabled.

62 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




The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

clouds@serversatu:~$ _
```

tampilan setelah login berhasil, setelahnya ktia dapat menjalankan beberapa perintah, terutama utnuk menjalankan lokalhostnya

14

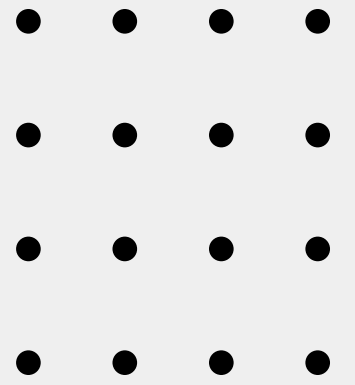# Perintah pada sistem ubuntu server

```
sudo apt update
apt search apache2
sudo apt install apache2
sudo systemctl start apache2
sudo systemctl status apache2
sudo systemctl is-active apache2
```

15

tampilan default page saat koneksi telah berhasil

End

Terima Kasih