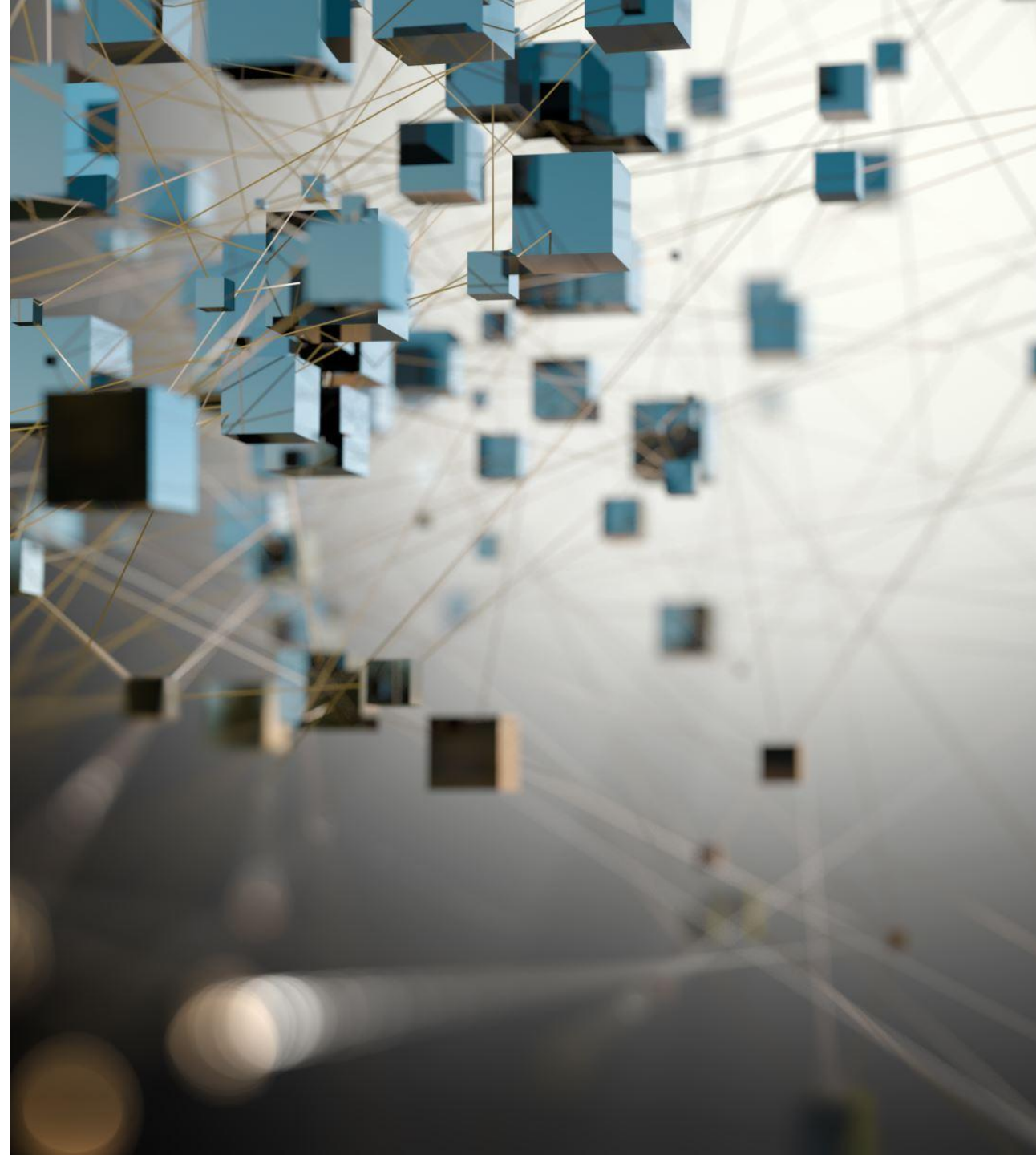


Pertemuan 1

Instalasi Linux

Yunia Ikawati

Praktikum Sistem Operasi



Topik



Kontrak Perkuliahan



Instalasi Virtual Box



Instalasi Linux-Ubuntu

Kontrak Perkuliahahan

1. Datang tepat waktu; toleransi keterlambatan adalah 15 menit. Kehadiran lebih dari 15 menit silahkan tetap masuk tetapi untuk absensi dianggap alpha.
2. Tidak ada toleransi untuk titip absen.
3. Memakai pakaian sopan dan rapi (tidak boleh memakai sandal)
4. Memenuhi Tingkat kehadiran 75% untuk bisa mengikuti ujian dan mendapatkan nilai.
5. Menyampaikan pemberitahuan kepada dosen apabila berhalangan hadir; misal jika sakit wajib melampirkan surat dokter ditunjukkan ke dosen dan dikumpulkan di BAAK.
6. Mematikan atau menyeting alat komunikasi mode 'silent' saat perkuliahan berlangsung.
7. Dilarang makan di ruang kelas terutama saat perkuliahan berlangsung.
8. Mengerjakan dan mengumpulkan tugas tepat waktu.
9. Sistem Penilaian:
 - Tugas 30%
 - UTS 30%
 - UAS 40%

Sistem Operasi Linux

Linux adalah sistem operasi open-source yang terkenal dengan keamanan, stabilitas, dan fleksibilitasnya.

Sebagai sistem operasi, Linux bertindak sebagai penghubung antara perangkat keras komputer dan aplikasi yang dijalankan.

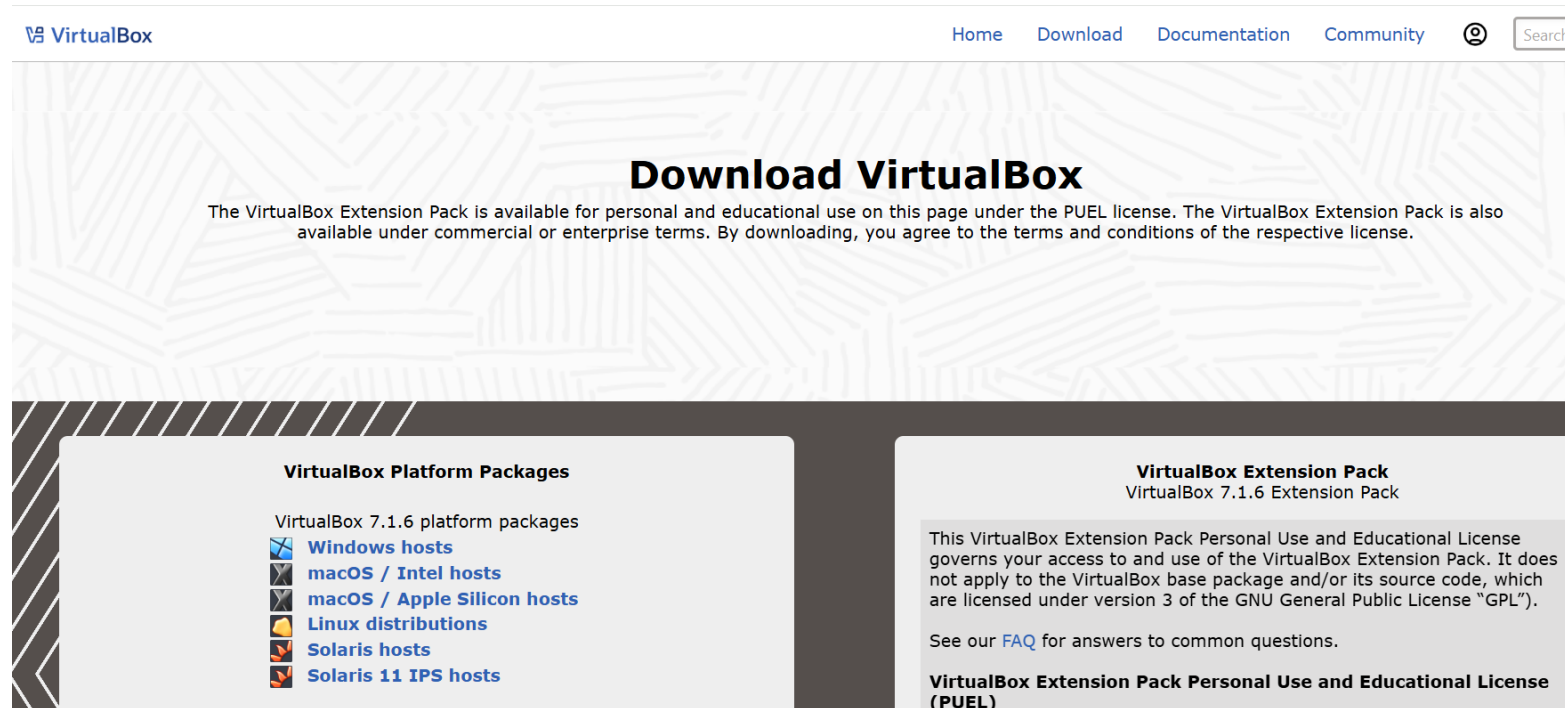
Instalasi Virtual Box

VirtualBox adalah perangkat lunak virtualisasi yang memungkinkan kita untuk menjalankan berbagai sistem operasi di satu komputer secara bersamaan.

Dengan VirtualBox, Anda dapat membuat "mesin virtual" di dalam komputer Anda, yang berperan sebagai komputer terpisah dengan sistem operasi yang berbeda.

Install Virtual Box







1. Download Virtual Box di <https://www.virtualbox.org/wiki/Downloads>



The screenshot shows the VirtualBox website's download page. The page has a navigation bar with links for Home, Download, Documentation, and Community, along with a search box. The main heading is "Download VirtualBox". Below the heading, there is a paragraph explaining the VirtualBox Extension Pack license. The page is divided into two main sections: "VirtualBox Platform Packages" and "VirtualBox Extension Pack".

VirtualBox Platform Packages

VirtualBox 7.1.6 platform packages

-  [Windows hosts](#)
-  [macOS / Intel hosts](#)
-  [macOS / Apple Silicon hosts](#)
-  [Linux distributions](#)
-  [Solaris hosts](#)
-  [Solaris 11 IPS hosts](#)

VirtualBox Extension Pack
VirtualBox 7.1.6 Extension Pack

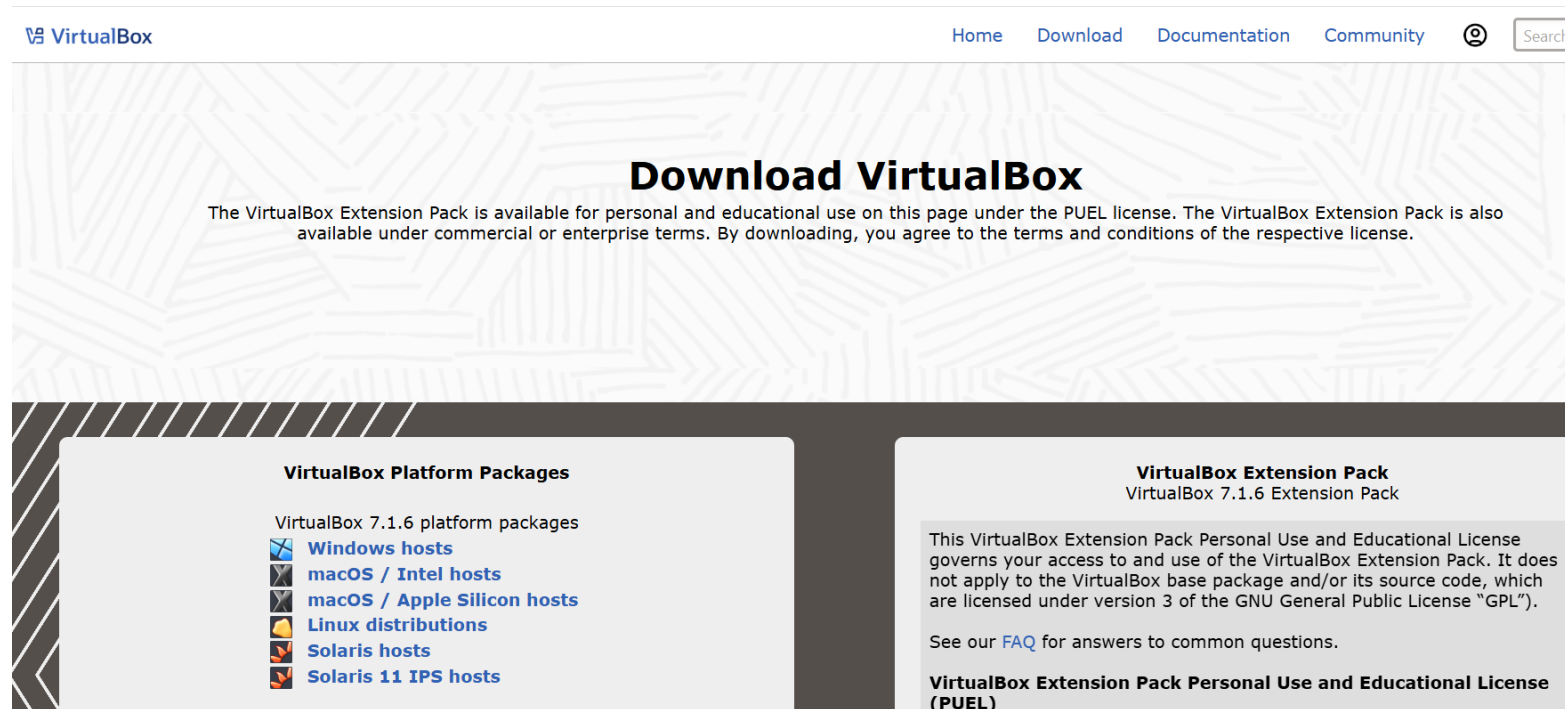
This VirtualBox Extension Pack Personal Use and Educational License governs your access to and use of the VirtualBox Extension Pack. It does not apply to the VirtualBox base package and/or its source code, which are licensed under version 3 of the GNU General Public License "GPL".

See our [FAQ](#) for answers to common questions.

VirtualBox Extension Pack Personal Use and Educational License (PUEL)

Install Virtual Box







2. Pada bagian “VirtualBox 7.1.6 platform packages”, klik sesuai nama Sistem Operasi yang anda gunakan saat instalasi nanti yaitu windows hosts.



The screenshot shows the VirtualBox website's download page. At the top, there is a navigation bar with links for Home, Download, Documentation, and Community, along with a search box. The main heading is "Download VirtualBox". Below this, a paragraph explains the VirtualBox Extension Pack license. The page is divided into two main sections: "VirtualBox Platform Packages" and "VirtualBox Extension Pack".

VirtualBox Platform Packages

VirtualBox 7.1.6 platform packages

-  [Windows hosts](#)
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-  [Linux distributions](#)
-  [Solaris hosts](#)
-  [Solaris 11 IPS hosts](#)

VirtualBox Extension Pack
VirtualBox 7.1.6 Extension Pack

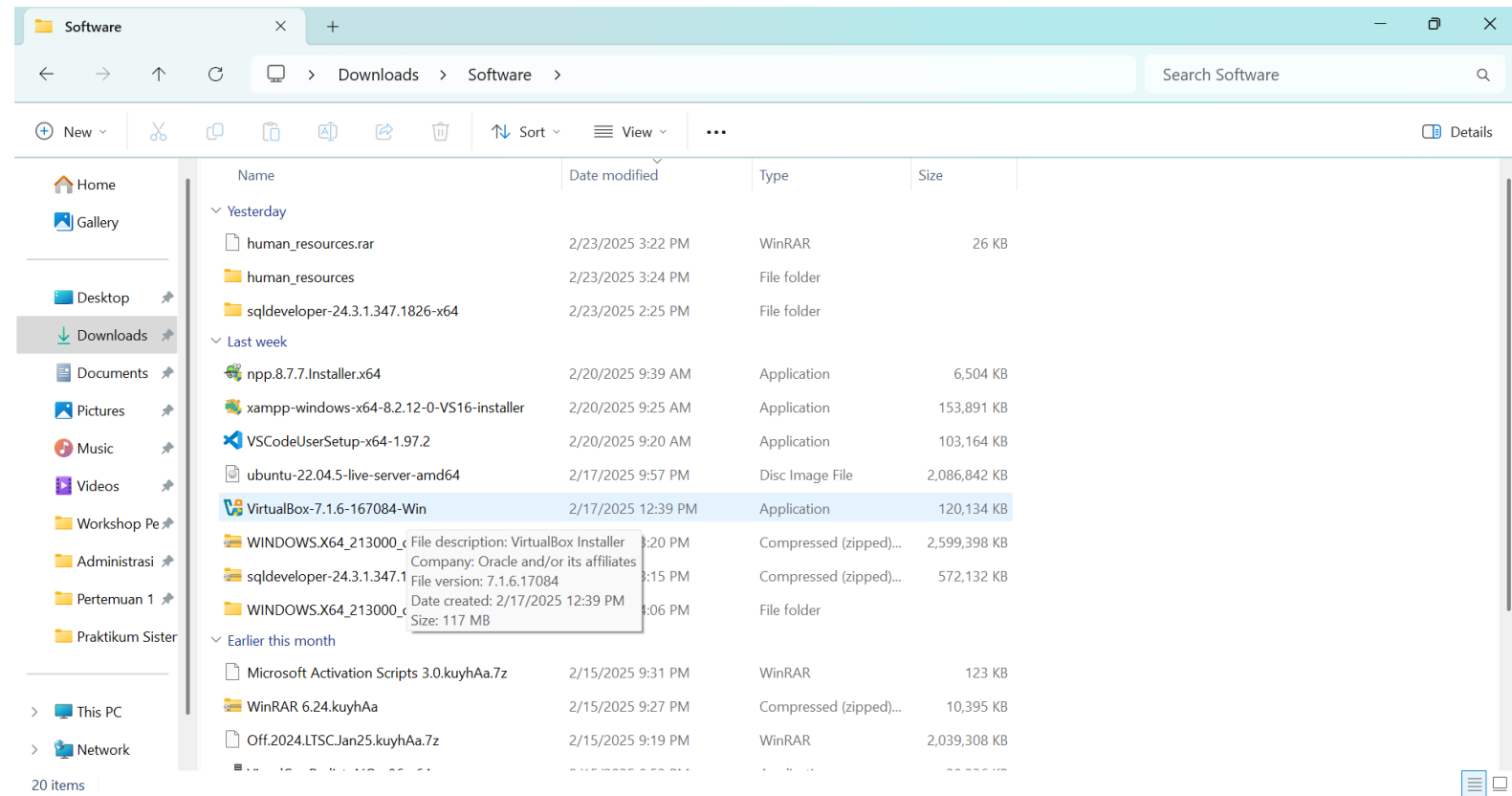
This VirtualBox Extension Pack Personal Use and Educational License governs your access to and use of the VirtualBox Extension Pack. It does not apply to the VirtualBox base package and/or its source code, which are licensed under version 3 of the GNU General Public License "GPL".

See our [FAQ](#) for answers to common questions.

VirtualBox Extension Pack Personal Use and Educational License (PUEL)

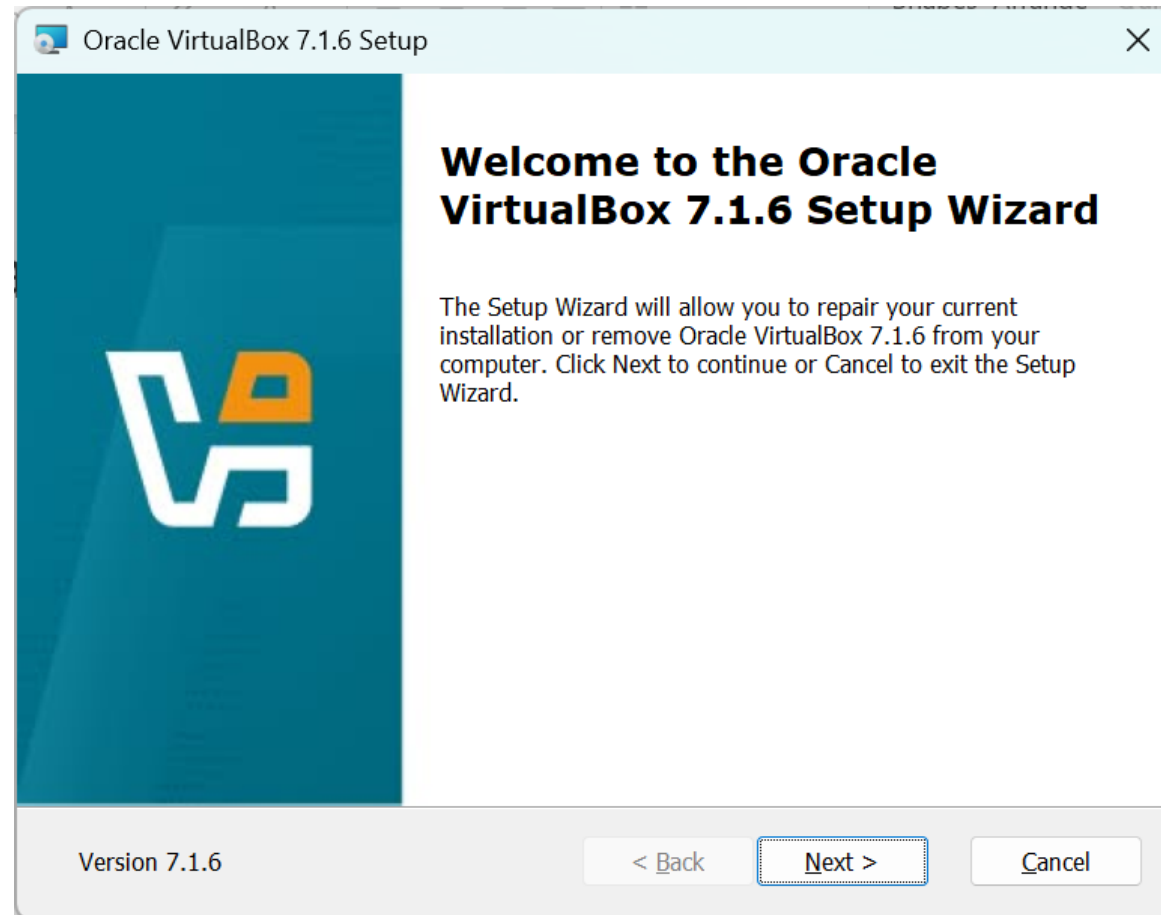
Install Virtual Box

3. Jalankan aplikasi VirtualBox yang telah didownload



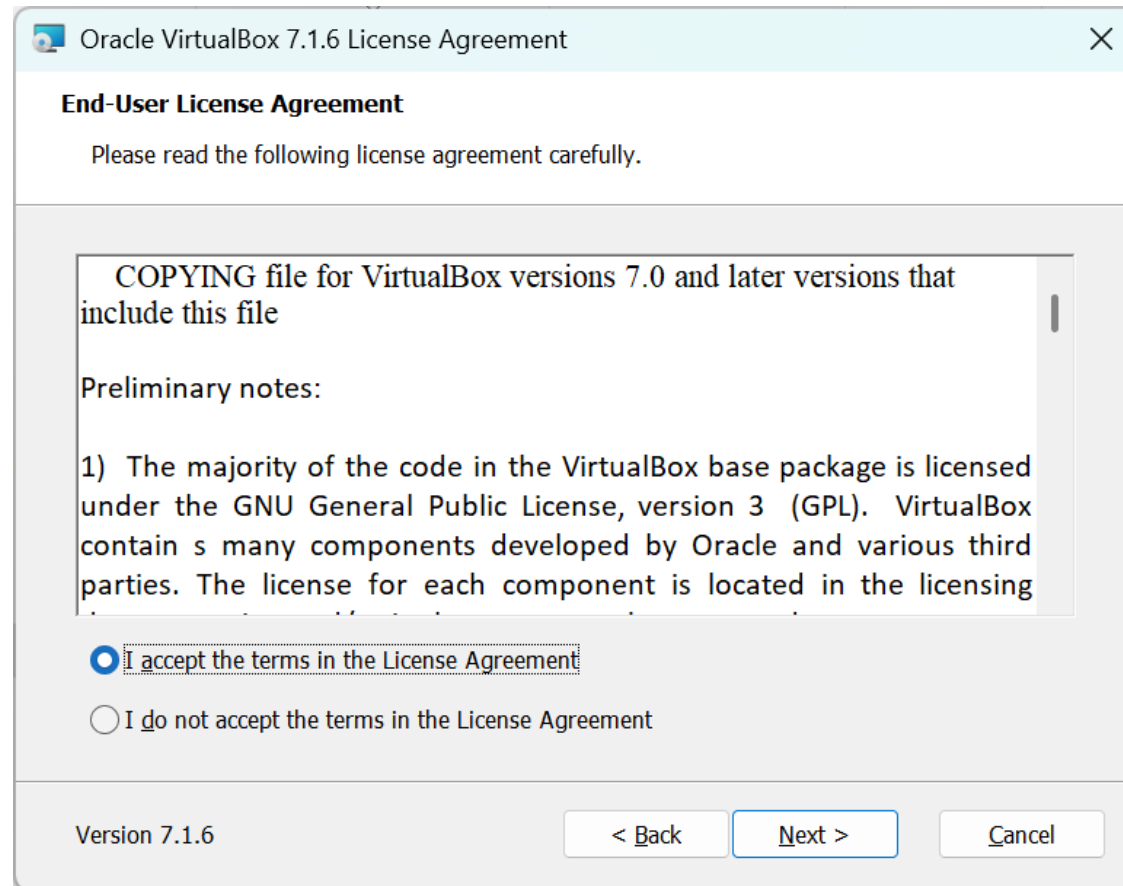
Install Virtual Box

4. Klik Tombol Next



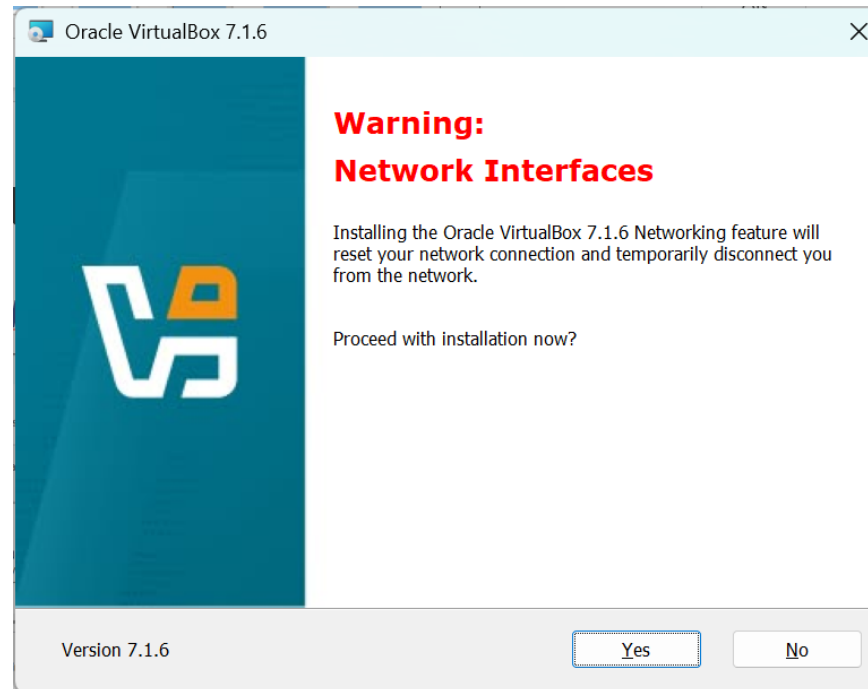
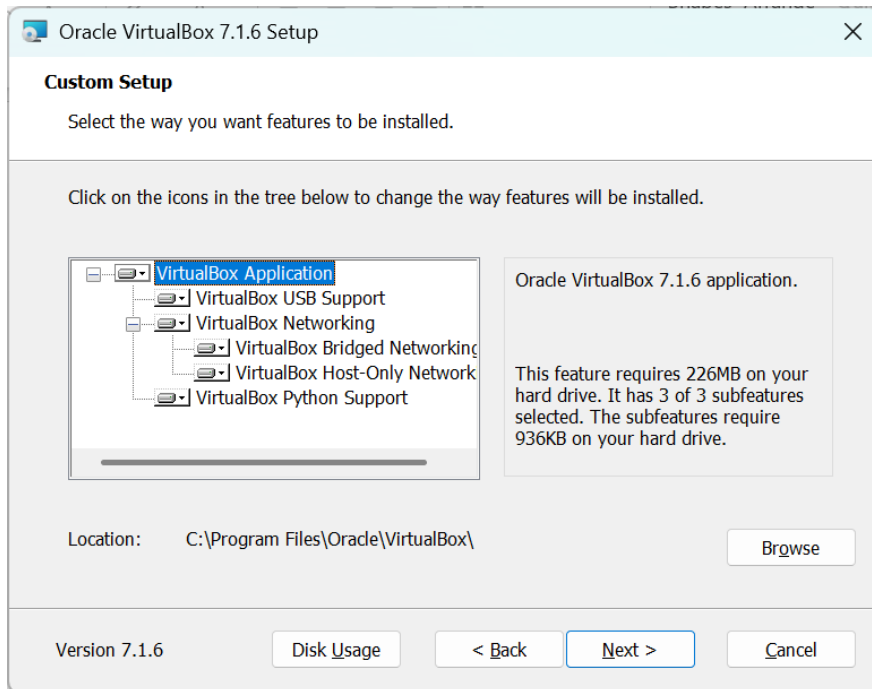
Instal Virtual Box

5. Klik Iaccept lalu Klik tombol *Next* untuk proses selanjutnya.



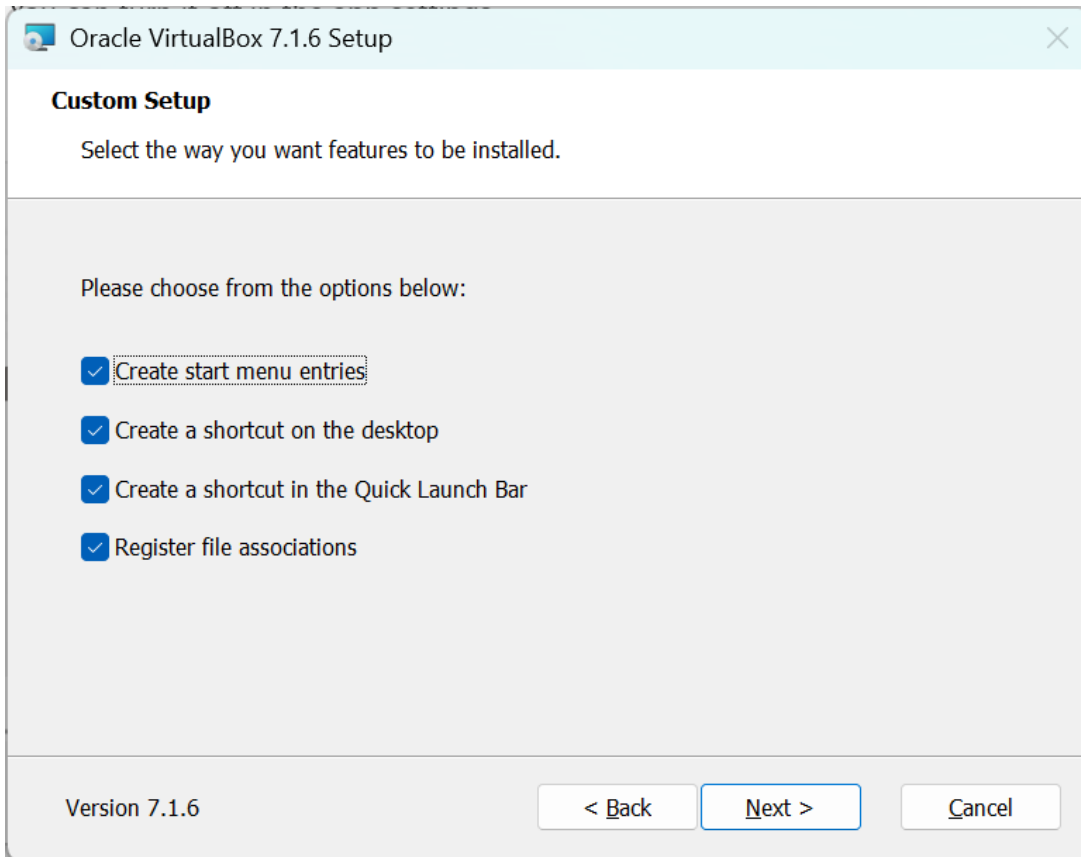
Instal Virtual Box

6. Klik tombol *Next* lalu *Yes* untuk proses selanjutnya.



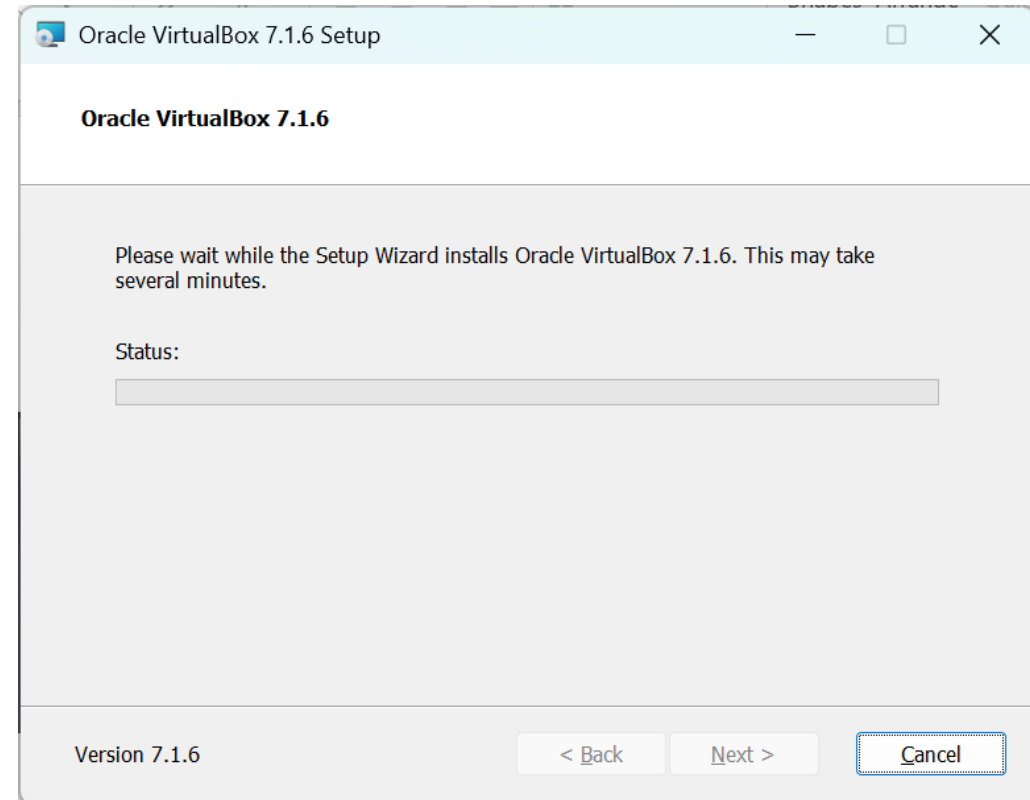
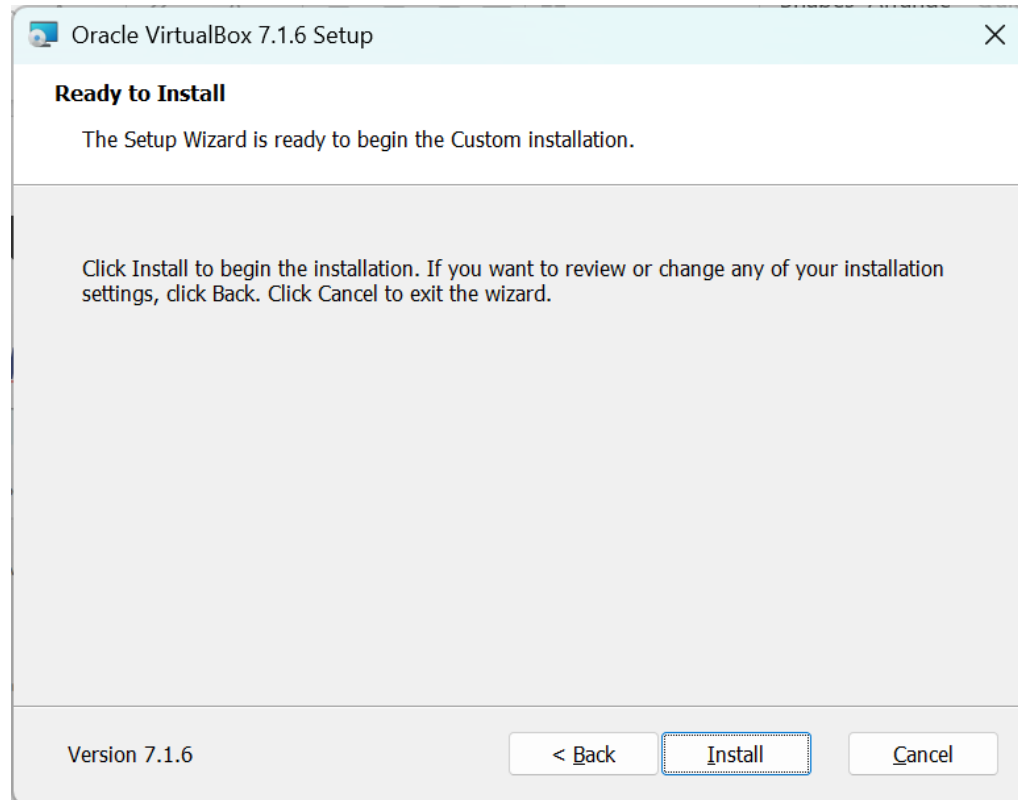
Instal Virtual Box

7. Klik tombol *Next* lalu *Yes* untuk proses selanjutnya.



Install Virtual Box

8. Pilih Install



Install Virtual Box

9. Setelah selesai muncul seperti ini



Linux Ubuntu

- Ubuntu adalah salah satu distribusi Linux yang paling populer dan ramah pengguna.
- Dikembangkan oleh Canonical, Ubuntu dikenal karena kemudahan penggunaannya dan dukungan komunitas yang luas.

Install Linux Ubuntu

Tutorial Install Linux Ubuntu di Virtual Box:

https://www.youtube.com/watch?v=oJUD4t_pWUg

1. Download Ubuntu Server

<https://releases.ubuntu.com/jammy/>

Ubuntu 22.04.5 LTS (Jammy Jellyfish)

Select an image

Ubuntu is distributed on three types of images described below.

Desktop image

The desktop image allows you to try Ubuntu without changing your computer at all, and at your option to install it permanently later. This type of image is what most people will want to use. You will need at least 1024MiB of RAM to install from this image.

[64-bit PC \(AMD64\) desktop image](#)

Choose this if you have a computer based on the AMD64 or EM64T architecture (e.g., Athlon64, Opteron, EM64T Xeon, Core 2). Choose this if you are at all unsure.

Server install image

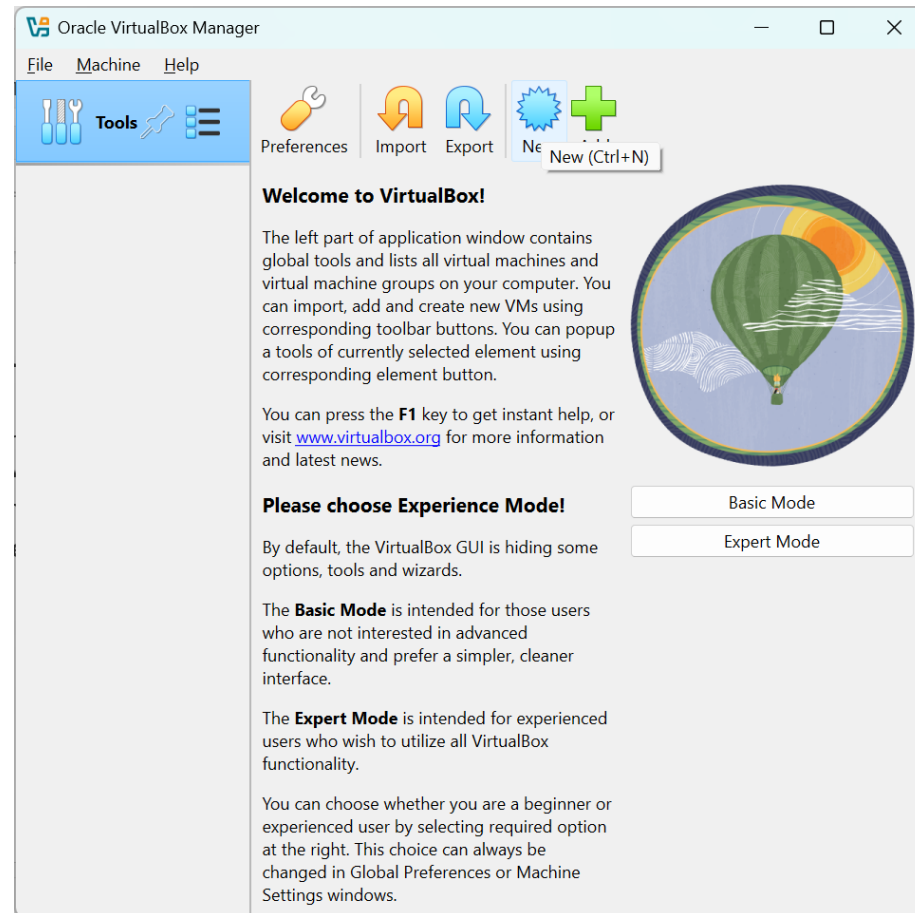
The server install image allows you to install Ubuntu

[64-bit PC \(AMD64\) server install image](#)

Choose this if you have a computer based on the AMD64 or EM64T architecture (e.g., Athlon64, Opteron, EM64T Xeon, Core 2). Choose this if you are at all unsure.

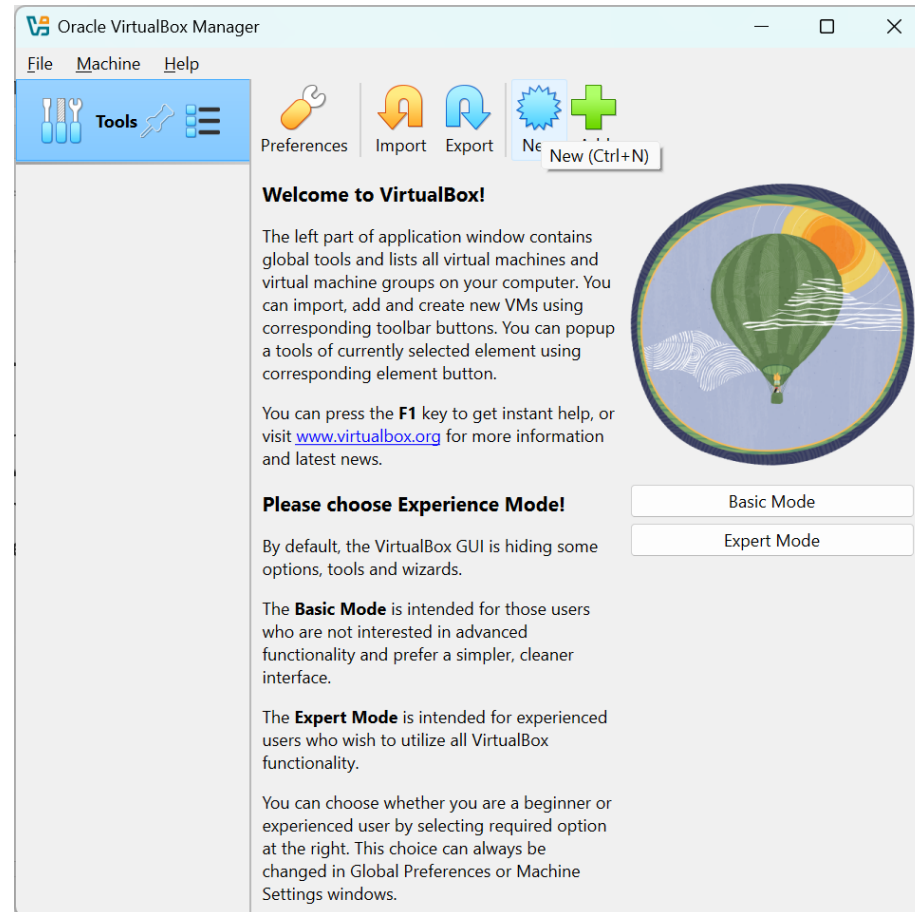
Install Linux Ubuntu

2. Buka Virtual Box , Pilih New



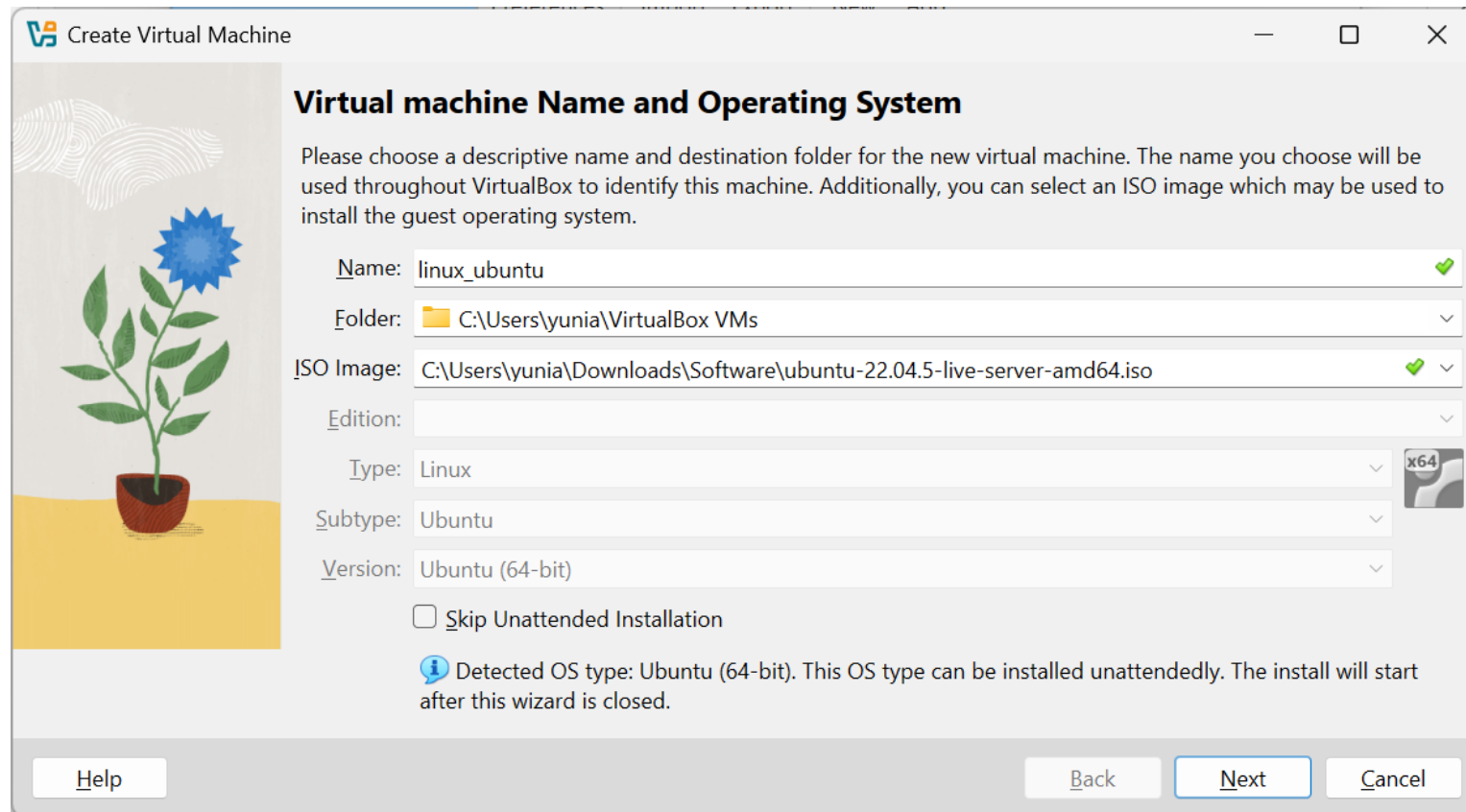
Install Linux Ubuntu

3. Pilih New



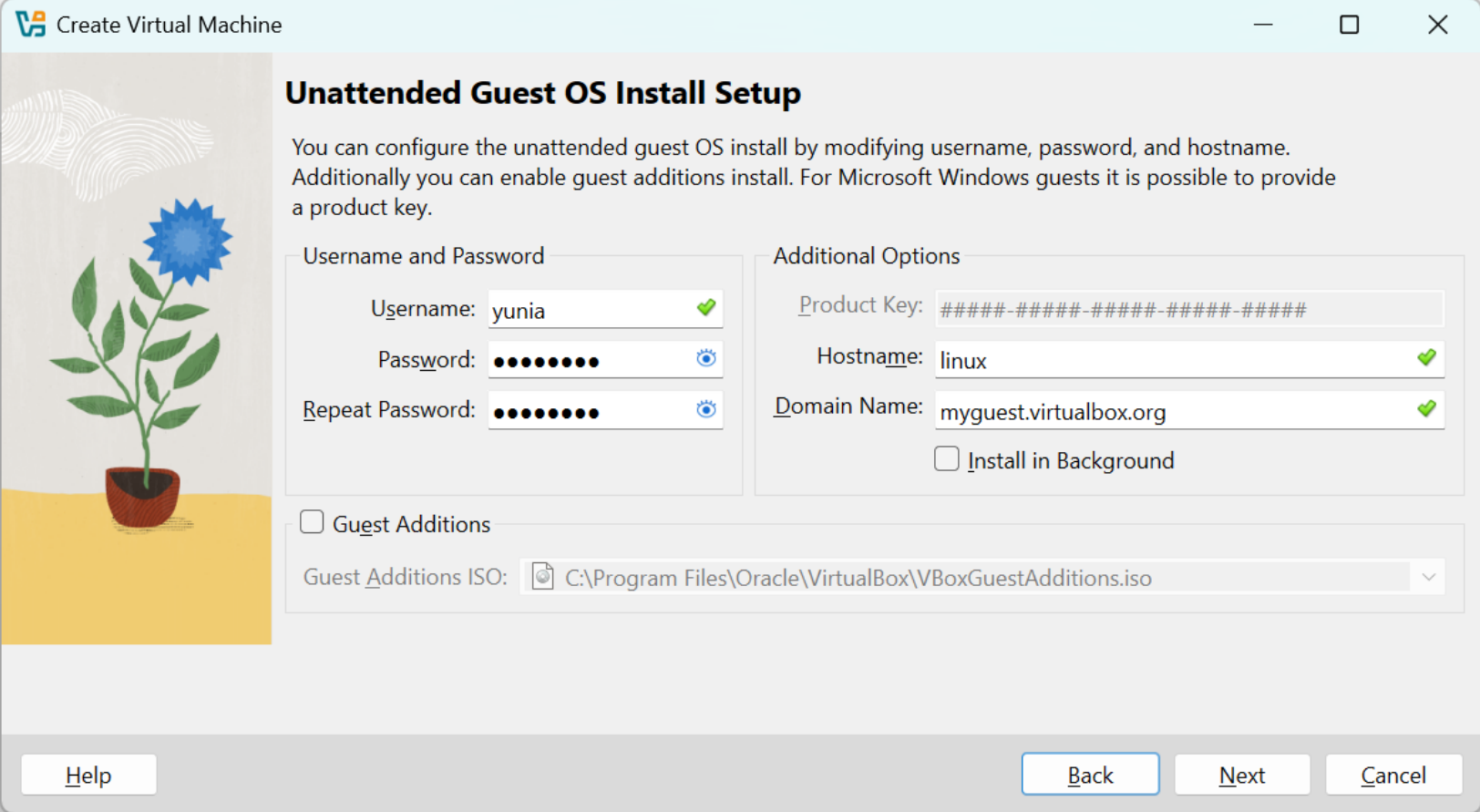
Install Linux Ubuntu

4. Isi name nya misal “linux_ubuntu” lalu isi ISO Image dengan installer linux



Install Linux Ubuntu

5. Isi Username dan password, lalu hostname nya juga



Create Virtual Machine

Unattended Guest OS Install Setup

You can configure the unattended guest OS install by modifying username, password, and hostname. Additionally you can enable guest additions install. For Microsoft Windows guests it is possible to provide a product key.

Username and Password

Username: ✓

Password: 👁

Repeat Password: 👁

Additional Options

Product Key:

Hostname: ✓

Domain Name: ✓

Install in Background

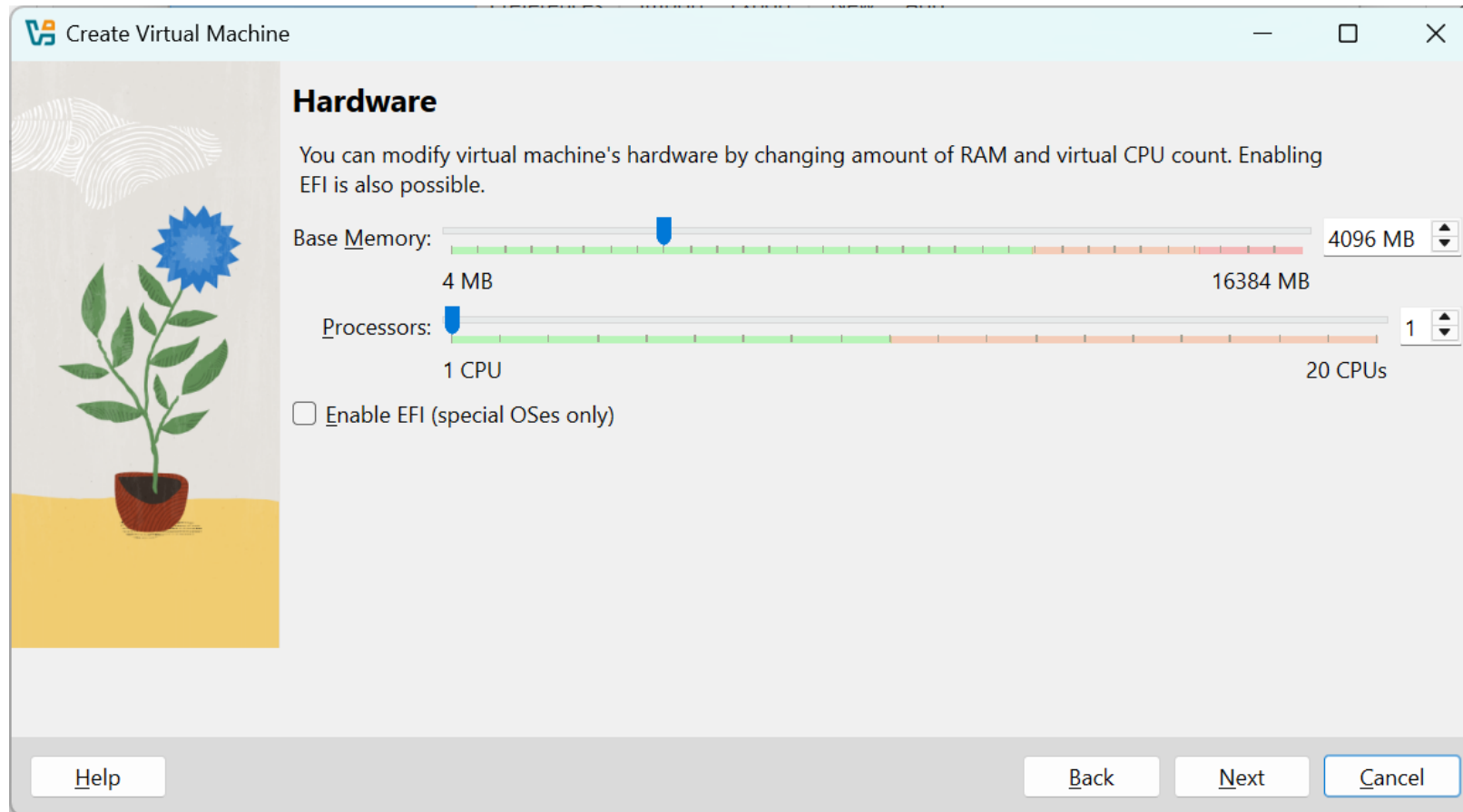
Guest Additions

Guest Additions ISO:

[Help](#) [Back](#) [Next](#) [Cancel](#)

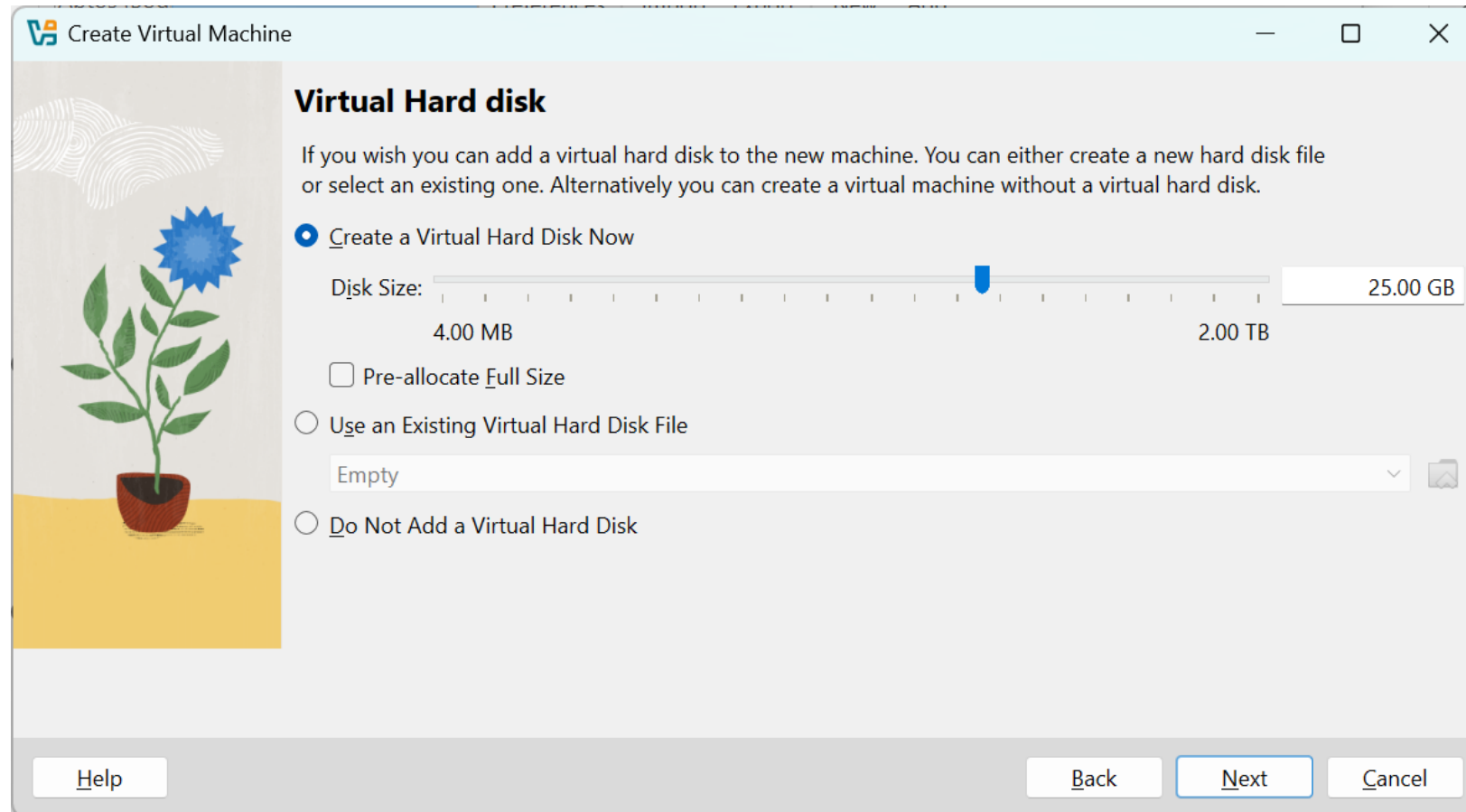
Install Linux Ubuntu

6. Atur Base Memory password, lalu Next



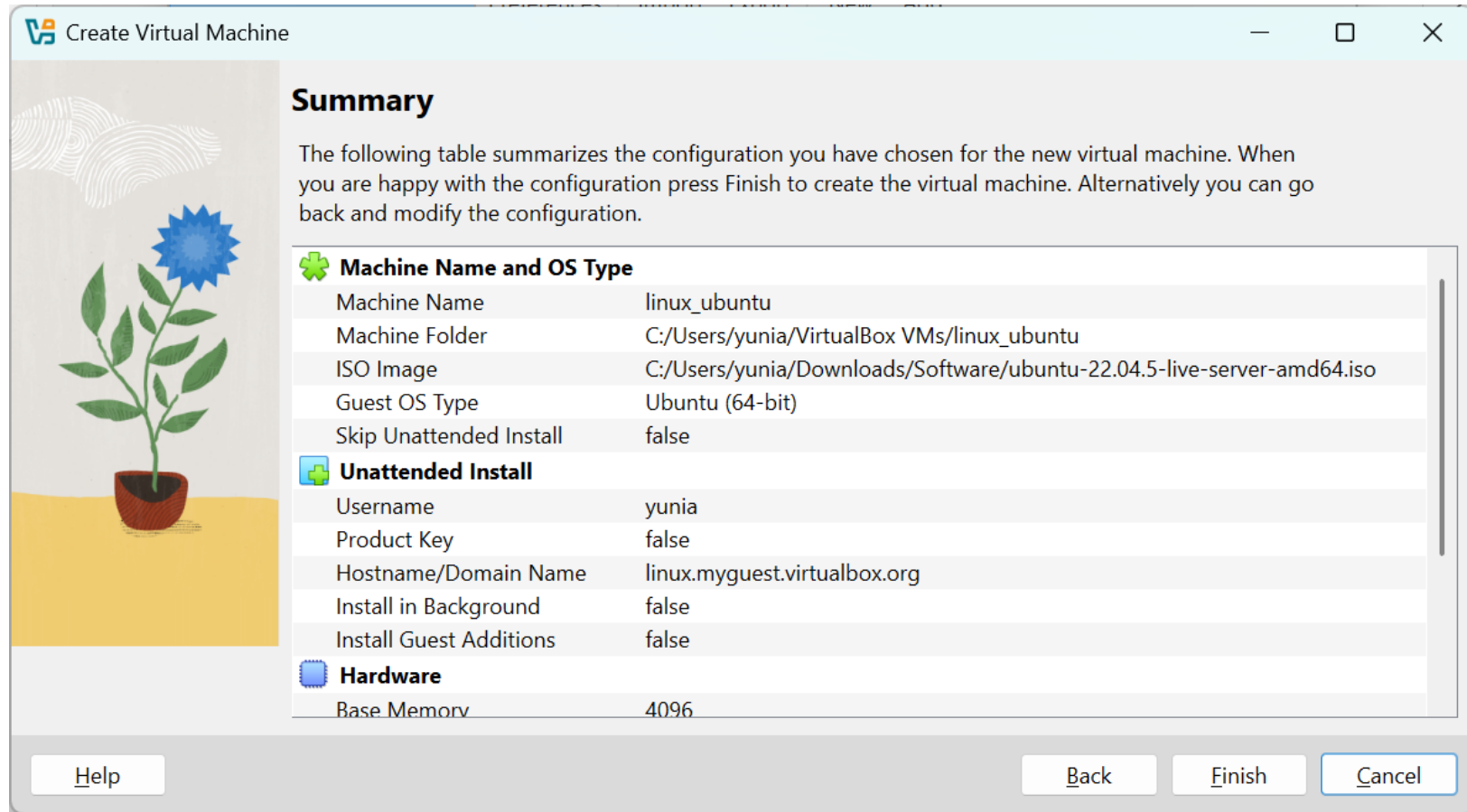
Install Linux Ubuntu

7. Atur Virtual Hard disknya



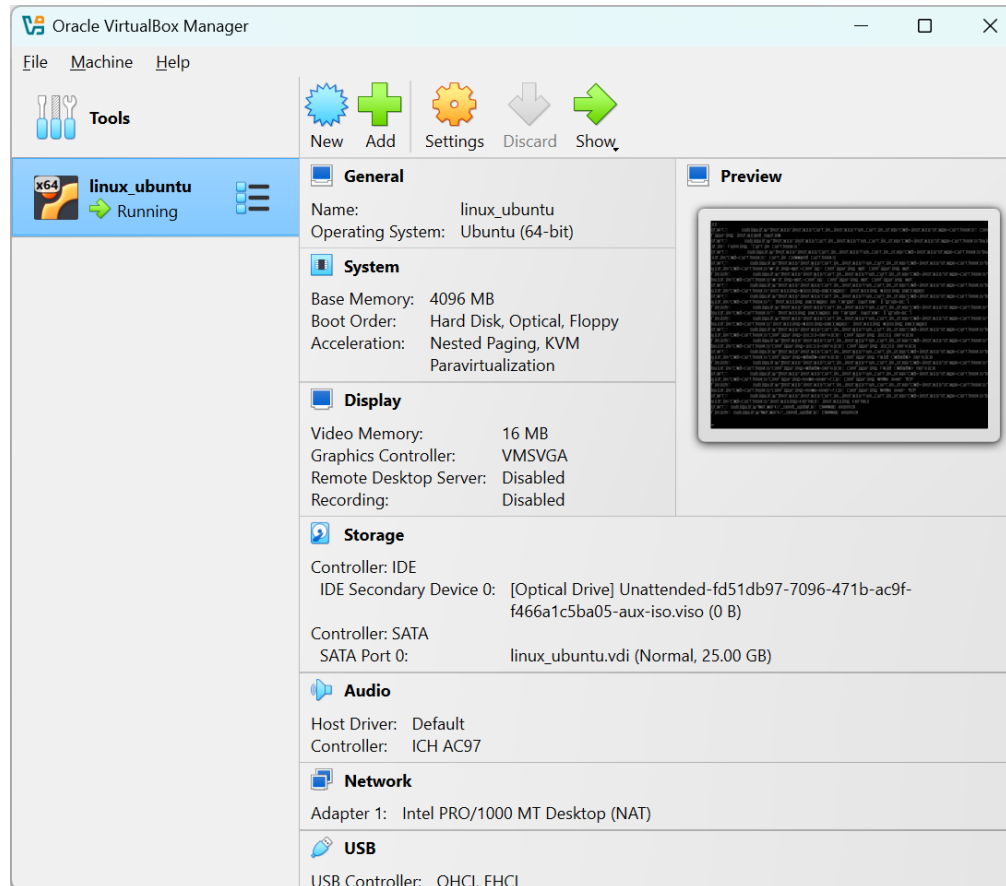
Install Linux Ubuntu

8. Akan muncul summarynya, finish



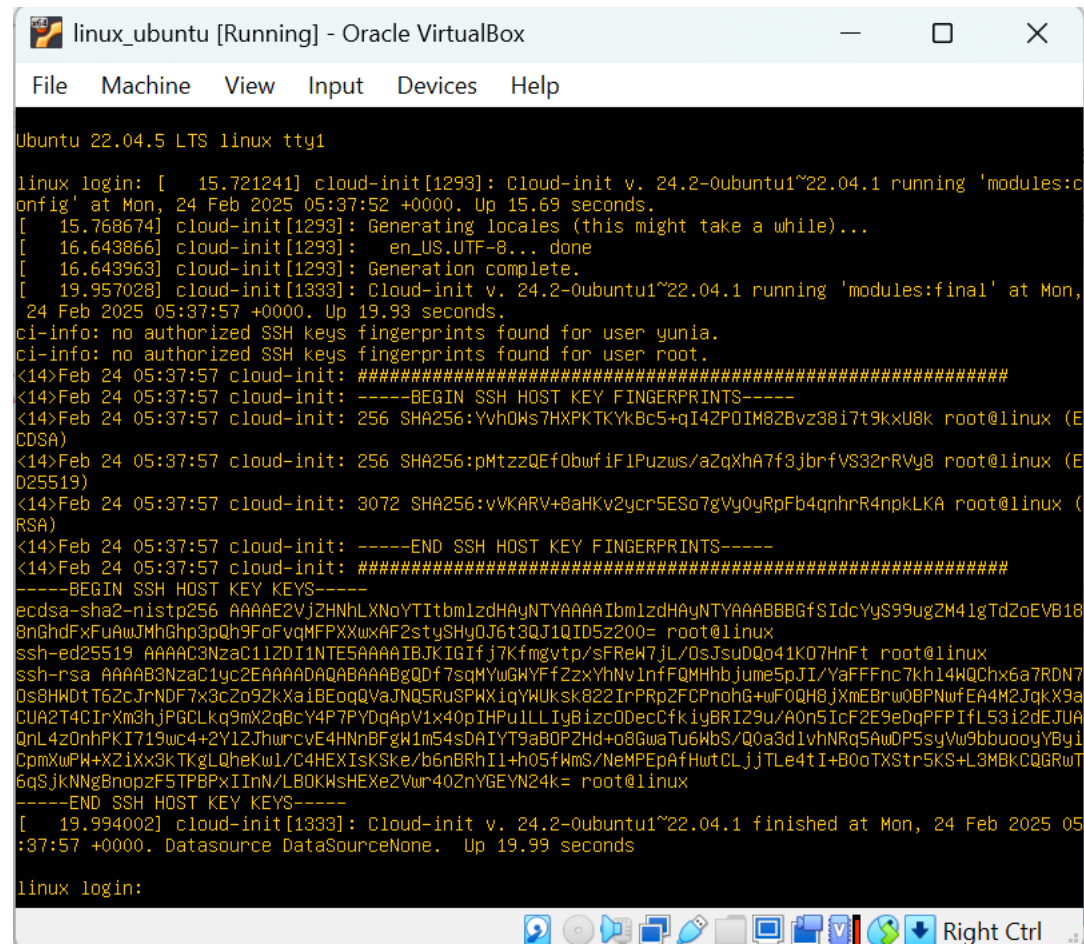
Install Linux Ubuntu

9. Lalu pilih Run , tunggu prosesnya beberapa saat



Install Linux Ubuntu

10. Install Selesai



```
linux_ubuntu [Running] - Oracle VirtualBox
File Machine View Input Devices Help

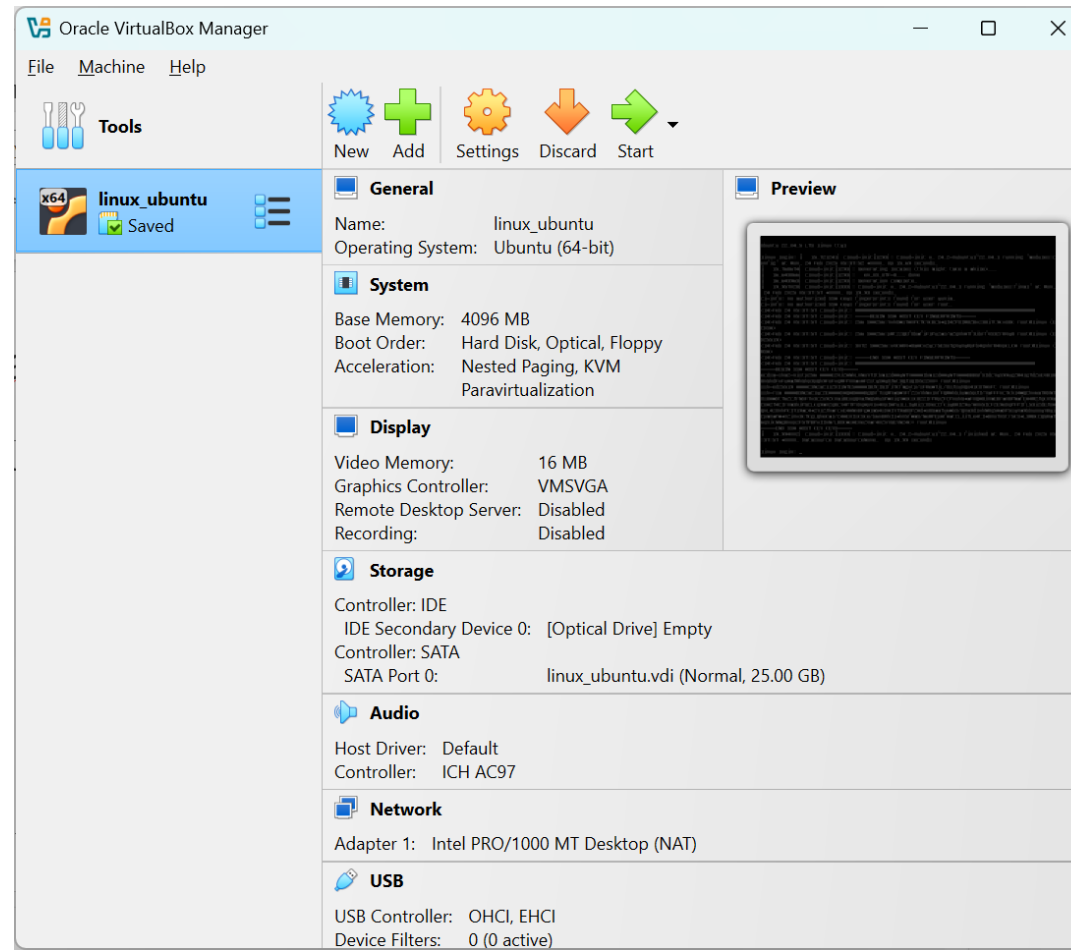
Ubuntu 22.04.5 LTS linux tty1

linux login: [ 15.721241] cloud-init[1293]: Cloud-init v. 24.2-0ubuntu1~22.04.1 running 'modules:
onfig' at Mon, 24 Feb 2025 05:37:52 +0000. Up 15.69 seconds.
[ 15.768674] cloud-init[1293]: Generating locales (this might take a while)...
[ 16.643866] cloud-init[1293]: en_US.UTF-8... done
[ 16.643963] cloud-init[1293]: Generation complete.
[ 19.957028] cloud-init[1333]: Cloud-init v. 24.2-0ubuntu1~22.04.1 running 'modules:final' at Mon,
24 Feb 2025 05:37:57 +0000. Up 19.93 seconds.
ci-info: no authorized SSH keys fingerprints found for user yunia.
ci-info: no authorized SSH keys fingerprints found for user root.
<14>Feb 24 05:37:57 cloud-init: #####
<14>Feb 24 05:37:57 cloud-init: ----BEGIN SSH HOST KEY FINGERPRINTS----
<14>Feb 24 05:37:57 cloud-init: 256 SHA256:Yvh0Ms7HXPKTKYkbc5+qI4ZP0IM82Bvz38i7t9kxU8k root@linux (E
CDSA)
<14>Feb 24 05:37:57 cloud-init: 256 SHA256:pMtzzQEf0bwf iF1Puzws/a2qxhA7f3jbrfVS32rRVy8 root@linux (E
D25519)
<14>Feb 24 05:37:57 cloud-init: 3072 SHA256:vVKARV+8aHKv2ycr5ESo7gVvy0yRpFb4qnrR4npkLKA root@linux (
RSA)
<14>Feb 24 05:37:57 cloud-init: ----END SSH HOST KEY FINGERPRINTS----
<14>Feb 24 05:37:57 cloud-init: #####
----BEGIN SSH HOST KEY KEYS----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBGfSIdcYyS99ugZM4lgTdZoEVb18
8nGhdFxFuAwJMhGhp3pQh9FoFvqMFPXxwAF2stySHyDJ6t3QJ1QID5z200= root@linux
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIBJKIGIfj7Kfmgvtp/sFRw7JL/OsJsuDQo41K07HnFt root@linux
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDf7sqMYwGHYfZzxYhNv1nfFQMhbjjume5pJI/YaFFFnc7kh14WQChx6a7RDN7
0s8HMDtT6ZcJrNDF7x3c2o9ZkXaiBEoqQVaJNQ5RuSPHXiqYWUksk822IrPRpZFCPhog+uwF0QH8jXmEBrwOBPNwF EA4M2JqkX9a
CUA2T4CInXm3hjPGCLkg9mX2qBcY4P7PYDqApV1x40pIHPuILLTyB1zc0DecCfk iyBRI29u/A0n5IcF2E9eDgPFPfL53i2dEJUA
QnL4z0nhPKI719wc4+2Y1ZJhwrcvE4HNnBFgW1m54sDAIYT9aB0P2Hd+o8GwaTu6WbS/Q0a3d1vhNRq5AwdP5syVw9bbuooYBYi
CpmXwPW+XZ1xx3kTKgLQheKw1/C4HEXIsKSke/b6nBRh11+h05fWmS/NeMPEpAfHwtCLJjTL4tI+Bo0TXStr5KS+L3MBkCQGRwT
6qSjkNngBnopzF5TPBPxIInN/LBOKKsHEXe2Vur402nYGEYN24k= root@linux
----END SSH HOST KEY KEYS----
[ 19.994002] cloud-init[1333]: Cloud-init v. 24.2-0ubuntu1~22.04.1 finished at Mon, 24 Feb 2025 05
:37:57 +0000. DataSource DataSourceNone. Up 19.99 seconds

linux login:
```

Menjalankan Linux

1. Buka Virtual Box dan Pilih start



Menjalankan Linux

2.Login username dan password saat install linux-ubuntu

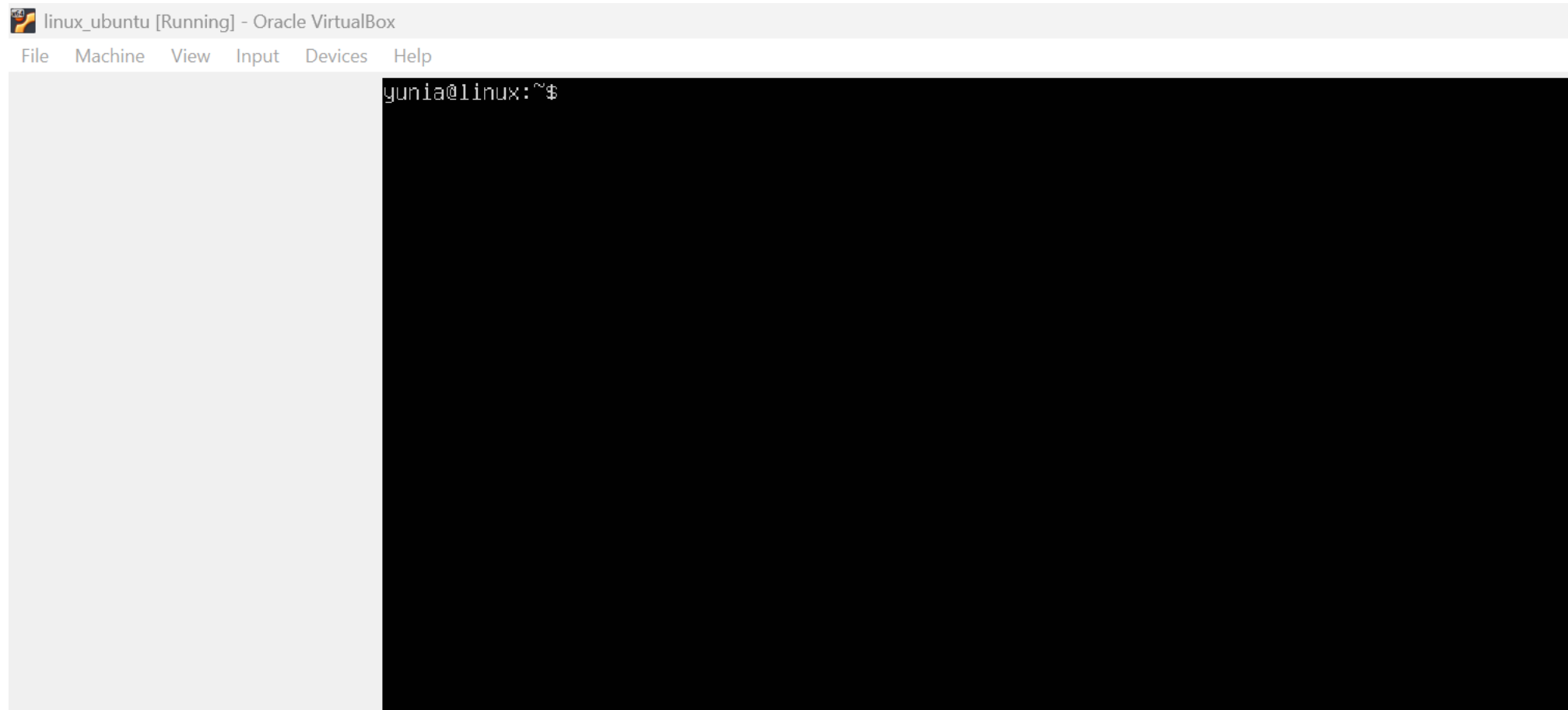
```
Ubuntu 22.04.5 LTS linux tty1

linux login: [ 12.903503] cloud-init[847]: Cloud-init v. 24.2-0ubuntu1~22.04.1 running 'modules:final' at Mon, 24 Feb 2025 05:54:03 +0000. Up 12.87 seconds.
[ 12.921481] cloud-init[847]: Cloud-init v. 24.2-0ubuntu1~22.04.1 finished at Mon, 24 Feb 2025 05:54:04 +0000. Datasource DataSourceNone. Up 12.91 seconds

linux login: yunia
Password: _
```

Menjalankan Linux

3.Siap menginputkan beberapa perintah linux



The image shows a screenshot of a Linux terminal window running inside Oracle VM VirtualBox. The window title is "linux_ubuntu [Running] - Oracle VirtualBox". The menu bar includes "File", "Machine", "View", "Input", "Devices", and "Help". The terminal prompt is "yunia@linux:~\$".

```
linux_ubuntu [Running] - Oracle VirtualBox
File Machine View Input Devices Help
yunia@linux:~$
```