

# Lab 1

## Installing Ubuntu server and LAMP stack

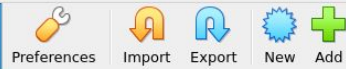
Momik Shrestha  
2080-2069

# Install Ubuntu server

- ISO used: Ubuntu server 24
- Hypervisor: Virtual Box 7.0

## Steps:

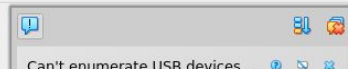
- 1) Create VM: Open VirtualBox, click New, name it, select "Linux" and "Ubuntu (64-bit)".
- 2) Allocate Memory: Set RAM to 1 GB (1024 MB) or more.
- 3) Create Disk: Choose Create virtual hard disk now, VDI, Dynamically allocated, and set size.
- 4) Configure Storage: Go to Settings, in Storage, add the Ubuntu Server ISO to the optical drive.
- 5) Start VM: Click Start to boot from the ISO.
- 6) Install Ubuntu: Follow on-screen installation prompts.
- 7) Finalize: Remove ISO, reboot, and log in.



## Welcome to VirtualBox!

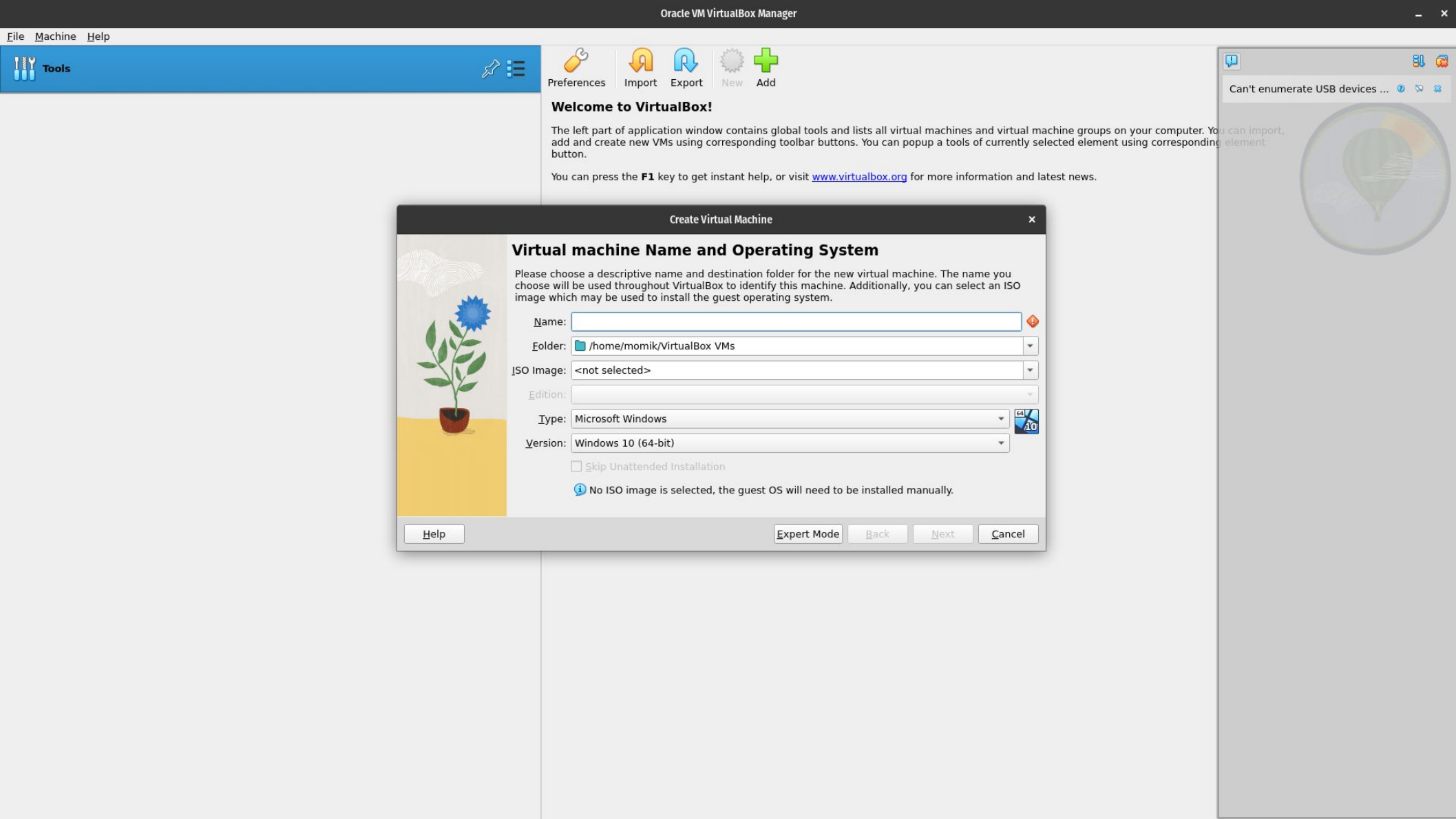
The left part of application window contains global tools and lists all virtual machines and virtual machine groups on your computer. You can import, add and create new VMs using corresponding toolbar buttons. You can popup a tools of currently selected element using corresponding button.

You can press the **F1** key to get instant help, or visit [www.virtualbox.org](http://www.virtualbox.org) for more information and latest news.



Can't enumerate USB devices ...





## Welcome to VirtualBox!

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### Create Virtual Machine

#### Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name:

Folder:

ISO Image:

Edition:

Type:

Version:

☐ Skip Unattended Installation

No ISO image is selected, the guest OS will need to be installed manually.

Help

Expert Mode

Back

Next

Cancel



Tools



Preferences



Import



Export



New



Add

## Welcome to VirtualBox!

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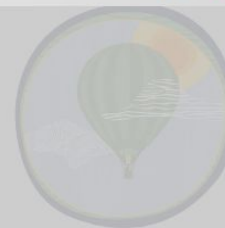
You can press the **F1** key to get instant help, or visit [www.virtualbox.org](http://www.virtualbox.org) for more information and latest news.



Can't enumerate USB devices ...



You can import,  
element



### Create Virtual Machine

#### Virtual machine Name and Operating System

Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.

Name: Ubuntu server



Folder: /home/momik/VirtualBox VMs

ISO Image: /home/momik/Downloads/ubuntu-24.04-live-server-amd64.iso

Edition:

Type: Linux

Version: Ubuntu (64-bit)

☐ Skip Unattended Installation

Detected OS type: Ubuntu (64-bit). This OS type can be installed unattendedly. The install will start after this wizard is closed.

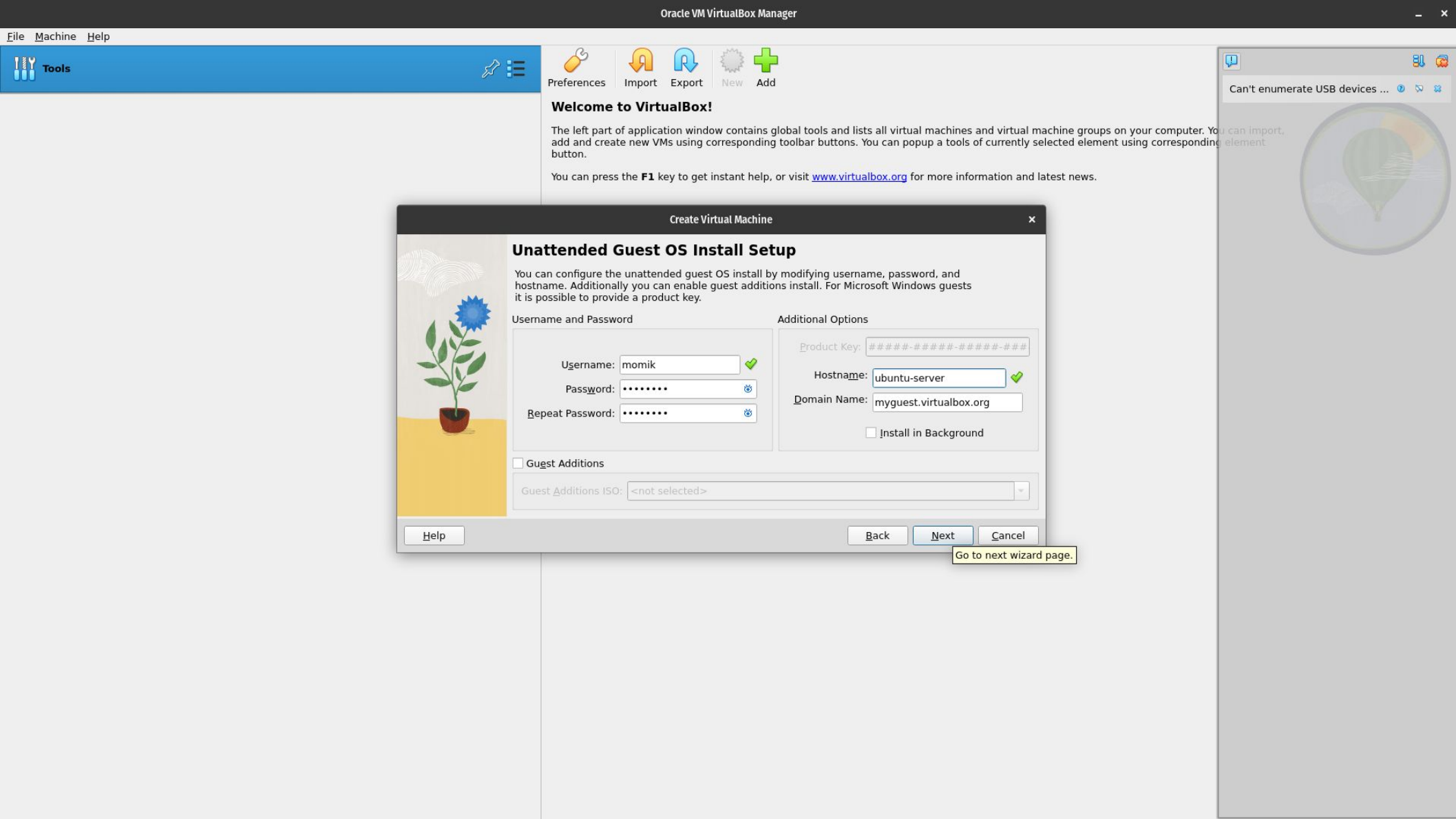
Help

Expert Mode

Back

Next

Cancel



## Welcome to VirtualBox!

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### 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

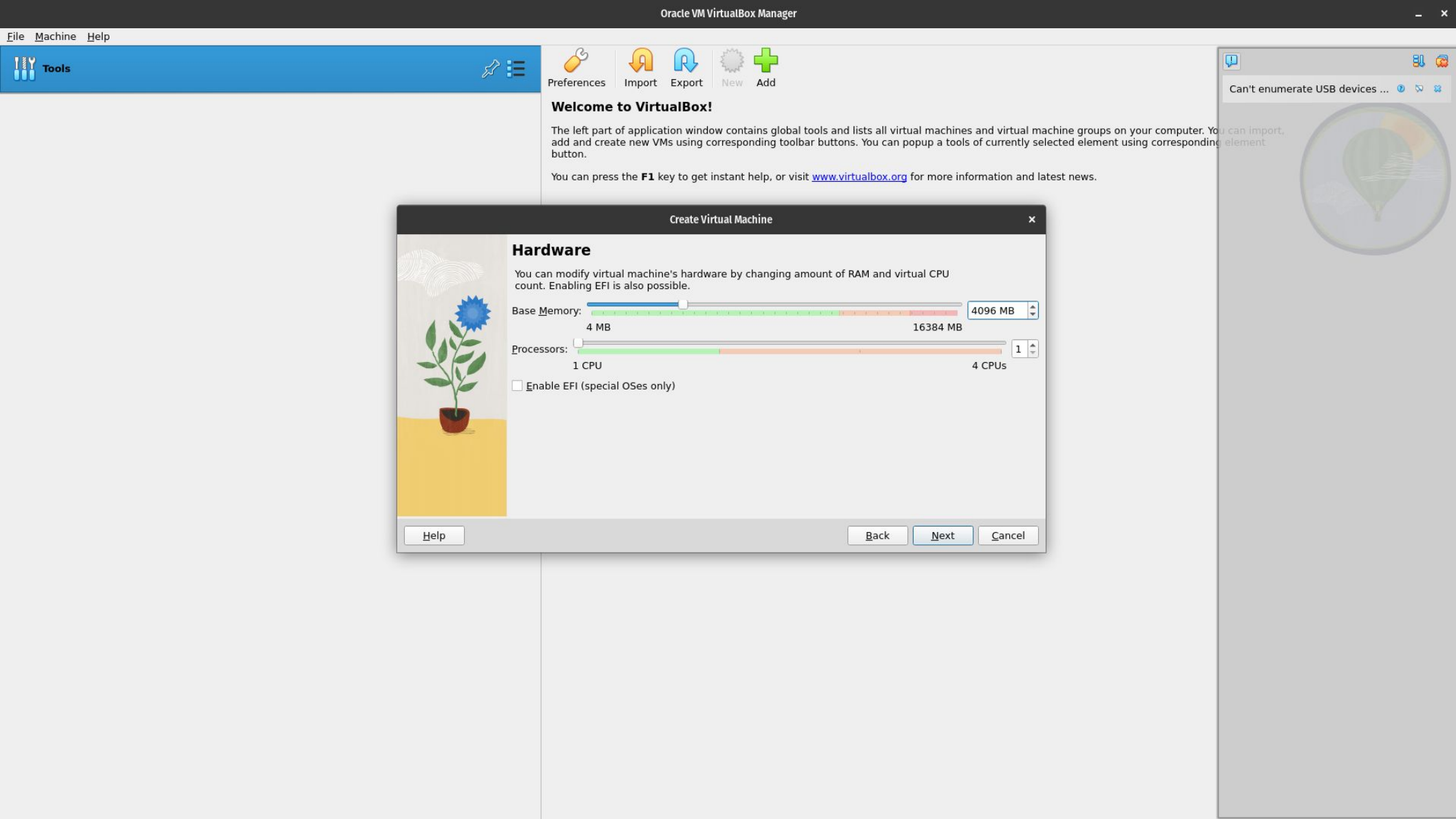
Guest Additions ISO:

Help

Back Next Cancel

Go to next wizard page.

A small window titled 'Can't enumerate USB devices ...' with a circular icon showing a USB device and some text.



## Welcome to VirtualBox!

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### Create Virtual Machine

#### Hardware

You can modify virtual machine's hardware by changing amount of RAM and virtual CPU count. Enabling EFI is also possible.

Base Memory: 4096 MB  
4 MB 16384 MB

Processors: 1  
1 CPU 4 CPUs

☐ Enable EFI (special OSes only)

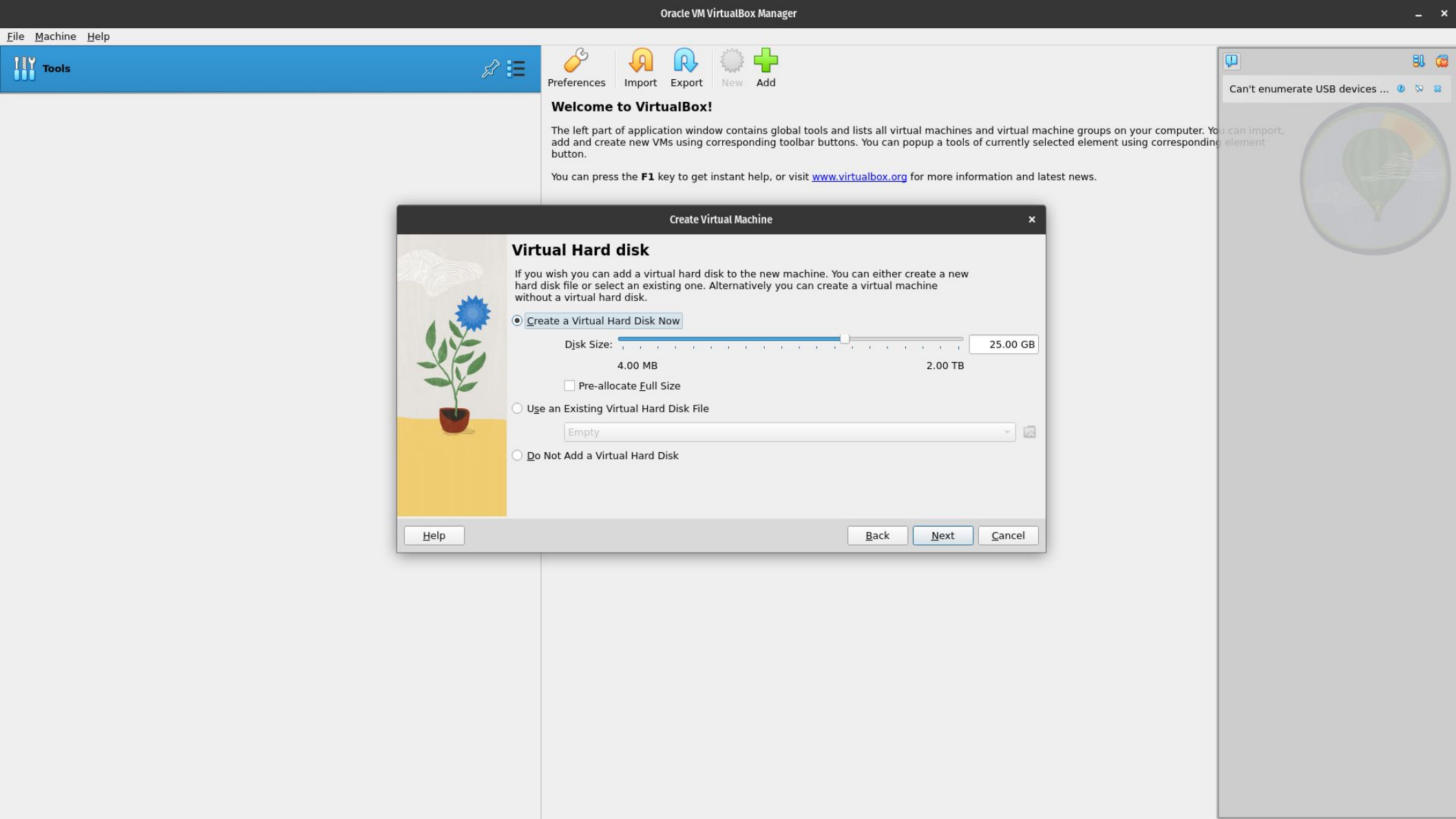
Help

Back

Next

Cancel

Can't enumerate USB devices ...



Preferences

Import

Export

New

Add

## Welcome to VirtualBox!

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### Create Virtual Machine

#### Virtual Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.

☒ Create a Virtual Hard Disk Now

Disk Size:  4.00 MB 2.00 TB

☐ Pre-allocate Full Size

☐ Use an Existing Virtual Hard Disk File

☐ Do Not Add a Virtual Hard Disk

Help

Back

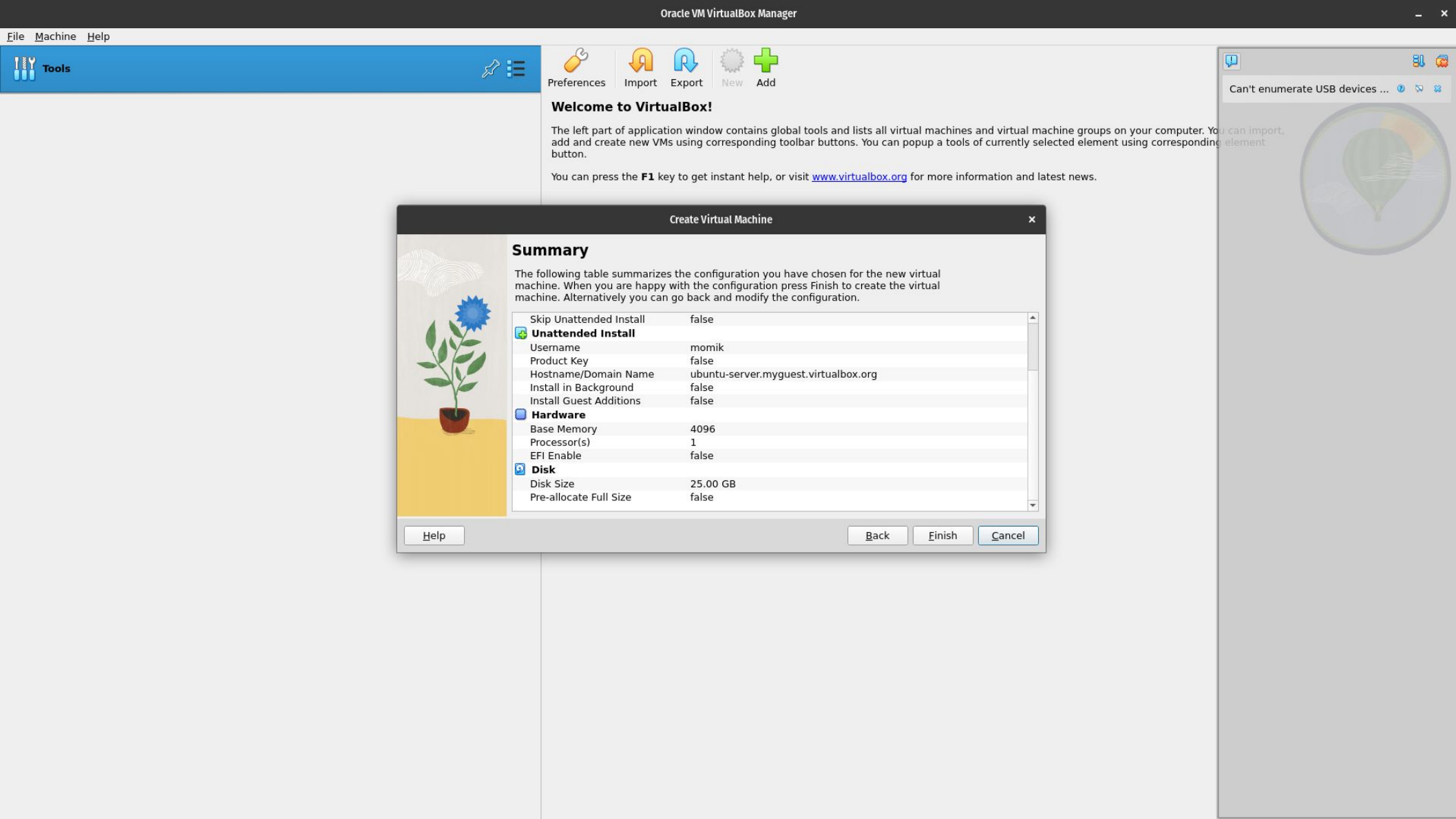
Next

Cancel

Can't enumerate USB devices ...







## Welcome to VirtualBox!

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### Create Virtual Machine

#### Summary

The following table summarizes the configuration you have chosen for the new virtual machine. When you are happy with the configuration press Finish to create the virtual machine. Alternatively you can go back and modify the configuration.

Skip Unattended Install	false
<b>Unattended Install</b>	
Username	momik
Product Key	false
Hostname/Domain Name	ubuntu-server.myguest.virtualbox.org
Install in Background	false
Install Guest Additions	false
<b>Hardware</b>	
Base Memory	4096
Processor(s)	1
EFI Enable	false
<b>Disk</b>	
Disk Size	25.00 GB
Pre-allocate Full Size	false

Help

Back

Finish

Cancel

Can't enumerate USB devices ...

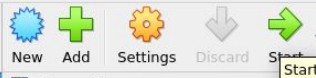


Tools



Ubuntu server

Powered Off

**General**

Name: Ubuntu server  
Operating System: Ubuntu (64-bit)

**System**

Base Memory: 4096 MB  
Boot Order: Hard Disk, Optical, Floppy  
Acceleration: Nested Paging, KVM Paravirtualization

**Display**

Video Memory: 16 MB  
Graphics Controller: VMSVGA  
Remote Desktop Server: Disabled  
Recording: Disabled

**Storage**

Controller: IDE  
IDE Secondary Device 0: [Optical Drive] Unattended-43f022cd-ed6f-4b3f-8898-e87f91c25e22-aux-iso.viso (0 B)  
Controller: SATA  
SATA Port 0: Ubuntu server.vdi (Normal, 25.00 GB)

**Audio**

Host Driver: Default  
Controller: ICH AC97

**Network**

Adapter 1: Intel PRO/1000 MT Desktop (NAT)

**USB**

USB Controller: OHCI, EHCI  
Device Filters: 0 (0 active)

**Shared folders**

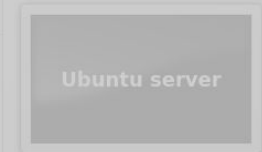
None

**Description**

None



Can't enumerate USB devices ...



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	▼

## Choose the type of installation

[ Help ]

Choose the base for the installation.

☒ 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.

 [ Done ]  
 [ Back ]

## 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 10.0.2.15/24		
08:00:27:f1:ba:40 / Intel Corporation / 82540EM Gigabit Ethernet Controller (PRO/1000 MT Desktop Adapter)		

[ Create bond ▶ ]

[ Done ]  
[ Back ]

## Proxy configuration

[ Help ]

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]/".

[ Done ]  
[ Back ]

## Ubuntu archive mirror configuration

[ Help ]

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

Mirror address:

You may provide an archive mirror to be used instead of the default.

The mirror location is being tested. -

[ Done ]  
[ Back ]

## Ubuntu archive mirror configuration

[ Help ]

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

Mirror address:

You may provide an archive mirror to be used instead of the default.

This mirror location passed tests.

```
Get:1 http://np.archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://np.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://np.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Fetched 508 kB in 22s (23.0 kB/s)
Reading package lists...
```

[ Done ]  
[ Back ]



## Guided storage configuration

[\[ Help \]](#)

Configure a guided storage layout, or create a custom one:

☒ Use an entire disk

[ VBOX\_HARDDISK\_VB7aa32762-97a82100 local disk 25.000G ▼ ]

☒ Set up this disk as an LVM group

☐ Encrypt the LVM group with LUKS

Passphrase:

Confirm passphrase:

☐ Also create a recovery key  
The key will be stored as ~/recovery-key.txt in the live system and will be copied to  
/var/log/installer/ in the target system.

☐ Custom storage layout

[ Done ]  
[ Back ]

## Storage configuration

[ Help ]

## FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	11.496G	new ext4	new LVM logical volume ▶ ]
[ /boot	2.000G	new ext4	new partition of local disk ▶ ]

## AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ ubuntu-vg (new)	LVM volume group	22.996G ▶ ]
free space		11.500G ▶ ]

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

## USED DEVICES

DEVICE	TYPE	SIZE
[ ubuntu-vg (new)	LVM volume group	22.996G ▶ ]
ubuntu-lv new, to be formatted as ext4, mounted at /		11.496G ▶ ]

[ VBOX\_HARDDISK\_VB7aa32762-97a82100 local disk 25.000G ▶ ]

partition 1 new, BIOS grub spacer 1.000M ▶ ]

partition 2 new, to be formatted as ext4, mounted at /boot 2.000G ▶ ]

partition 3 new, PV of LVM volume group ubuntu-vg 22.997G ▶ ]

[ Done ]

[ Reset ]

[ Back ]

## Profile configuration

[\[ Help \]](#)

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: momik

Your servers name: ubuntu-server

The name it uses when it talks to other computers.

Pick a username: momik

Choose a password: \*\*\*\*

Confirm your password: \*\*\*\*\_

[\[ Done \]](#)

## 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	▶

[ Done ]  
[ Back ]

Installing system

[ Help ]

```
subiquity/load_cloud_config/extract_autoinstall:
subiquity/Early/apply_autoinstall_config:
subiquity/Reporting/apply_autoinstall_config:
subiquity/Error/apply_autoinstall_config:
subiquity/Userdata/apply_autoinstall_config:
subiquity/Package/apply_autoinstall_config:
subiquity/Debconf/apply_autoinstall_config:
subiquity/Kernel/apply_autoinstall_config:
subiquity/Zdev/apply_autoinstall_config:
subiquity/Ad/apply_autoinstall_config:
subiquity/Late/apply_autoinstall_config:
configuring apt
curtin command in-target \
```

[ View full log ]

```
Ubuntu 24.04 LTS ubuntu-server tty1
ubuntu-server login: momik
Password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-39-generic x86_64)

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

System information disabled due to load higher than 1.0

Expanded Security Maintenance for Applications is not enabled.

41 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

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

momik@ubuntu-server:~$ _
```



Mouse integration ...



Auto capture keyboard ...

# Install LAMP Stack

- ISO used: Ubuntu server 24
- Hypervisor: Virtual Box 7.0

## Steps:

- 1) Create VM: Open VirtualBox, click New, name it, select "Linux" and "Ubuntu (64-bit)".
- 2) Allocate Memory: Set RAM to 1 GB (1024 MB) or more.
- 3) Create Disk: Choose Create virtual hard disk now, VDI, Dynamically allocated, and set size.
- 4) Configure Storage: Go to Settings, in Storage, add the Ubuntu Server ISO to the optical drive.
- 5) Start VM: Click Start to boot from the ISO.
- 6) Install Ubuntu: Follow on-screen installation prompts.
- 7) Finalize: Remove ISO, reboot, and log in.

# Install LAMP Stack

- Step 1: Update the Package Index
- Step 2: Install Apache
- Step 4: Install MySQL/MariaDB
- Step 5: Install PHP
- Step 6: Restart Apache
- Step 7: Test PHP



```
momik@ubuntu-server:~$ sudo apt update
[sudo] password for momik:
Hit:1 http://np.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://np.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [256 kB]
Hit:5 http://np.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:6 http://np.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [300 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [60.5 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [208 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [40.7 kB]
Get:10 http://np.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [77.2 kB]
Get:11 http://np.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [208 kB]
Get:12 http://np.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [40.7 kB]
Fetched 1,443 kB in 2s (582 kB/s)
```

```
momik@ubuntu-server:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.4).
0 upgraded, 0 newly installed, 0 to remove and 41 not upgraded.
momik@ubuntu-server:~$ _
```

```
momik@ubuntu-server:~$ sudo systemctl status apache2
```

```
• apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Mon 2024-07-29 23:38:21 UTC; 11s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 2100 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 2103 (apache2)
    Tasks: 55 (limit: 4614)
   Memory: 5.2M (peak: 5.4M)
      CPU: 29ms
   CGroup: /system.slice/apache2.service
           └─2103 /usr/sbin/apache2 -k start
             └─2104 /usr/sbin/apache2 -k start
               └─2106 /usr/sbin/apache2 -k start
```

```
Jul 29 23:38:21 ubuntu-server systemd[1]: Starting apache2.service - The Apache HTTP Server...
```

```
Jul 29 23:38:21 ubuntu-server apachectl[2102]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set th
```

```
Jul 29 23:38:21 ubuntu-server systemd[1]: Started apache2.service - The Apache HTTP Server.
```

```
lines 1-17/17 (END)
```

```
momik@ubuntu-server:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libbcgi-fast-perl libbcgi-pm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7t64 libfcgi-bin libfcgi-perl libfcgi0t64 libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite32t64
  libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server-8.0
  mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libio-compress-brotli-perl libbusiness-isbn-perl libregexp-ipv6-perl libwww-perl mailx tinycal
The following NEW packages will be installed:
  libbcgi-fast-perl libbcgi-pm-perl libclone-perl libencode-locale-perl libevent-pthreads-2.1-7t64 libfcgi-bin libfcgi-perl libfcgi0t64 libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmecab2 libprotobuf-lite32t64
  libtimedate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server mysql-server-8.0
  mysql-server-core-8.0
0 upgraded, 28 newly installed, 0 to remove and 41 not upgraded.
Need to get 29.6 MB of archives.
After this operation, 242 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
momik@ubuntu-server:~$ sudo mysql_secure_installation
```

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

VALIDATE PASSWORD COMPONENT can be used to test passwords  
and improve security. It checks the strength of password  
and allows the users to set only those passwords which are  
secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No: Y

There are three levels of password validation policy:

LOW Length >= 8

MEDIUM Length >= 8, numeric, mixed case, and special characters

STRONG Length >= 8, numeric, mixed case, special characters and dictionary file

Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG: 0

Skipping password set for root as authentication with auth\_socket is used by default.

If you would like to use password authentication instead, this can be done with the "ALTER\_USER" command.

See <https://dev.mysql.com/doc/refman/8.0/en/alter-user.html#alter-user-password-management> for more information.

By default, a MySQL installation has an anonymous user,  
allowing anyone to log into MySQL without having to have  
a user account created for them. This is intended only for  
testing, and to make the installation go a bit smoother.  
You should remove them before moving into a production  
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : Y

Success.

Normally, root should only be allowed to connect from  
'localhost'. This ensures that someone cannot guess at  
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) :

```
momik@ubuntu-server:~$ sudo apt install php php-fpm php-mysql php-mbstring php-common php-gd php-xml
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.3 php8.3 php8.3-cli php8.3-common php8.3-fpm php8.3-gd php8.3-mbstring php8.3-mysql php8.3-opcache php8.3-readline php8.3-xml
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php8.3 php php-common php-fpm php-gd php-mbstring php-mysql php-xml php8.3 php8.3-cli php8.3-common php8.3-fpm php8.3-gd php8.3-mbstring
  php8.3-mysql php8.3-opcache php8.3-readline php8.3-xml
0 upgraded, 18 newly installed, 0 to remove and 41 not upgraded.
Need to get 7,644 kB of archives.
After this operation, 30.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] _
```

```
momik@ubuntu-server:~$ sudo nano /var/www/html/index.php
```

GNU nano 7.2

/var/www/html/index.php \*

```
<?php
echo PHP_EOL."Hello world from server".PHP_EOL;
```

Help	Write Out	Where Is	Cut	Execute	Location	Undo	Set
Exit	Read File	Replace	Paste	Justify	Go To Line	Redo	Copy



```
momik@ubuntu-server:~$ curl http://localhost/index.php
```

```
Hello world from server
```

```
momik@ubuntu-server:~$ _
```