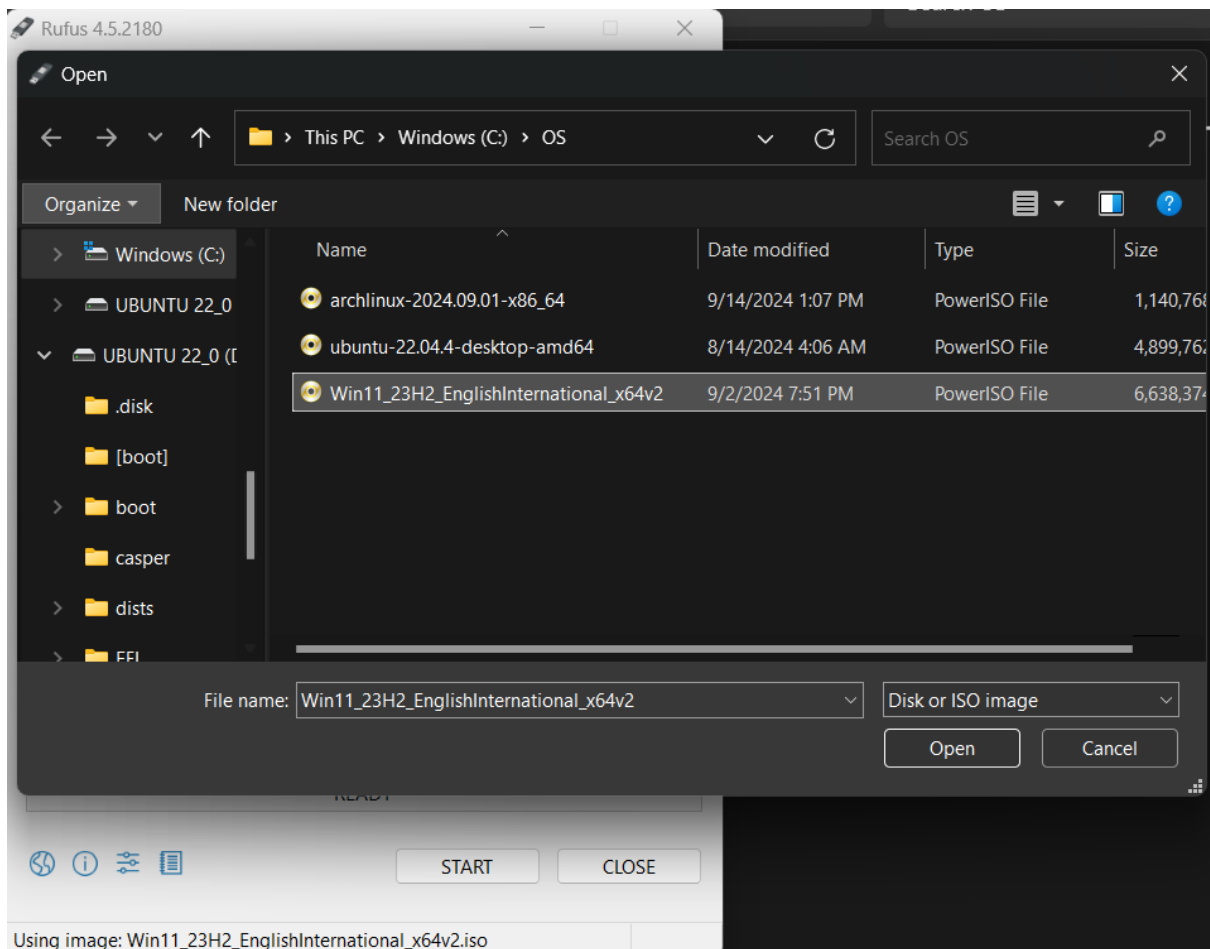
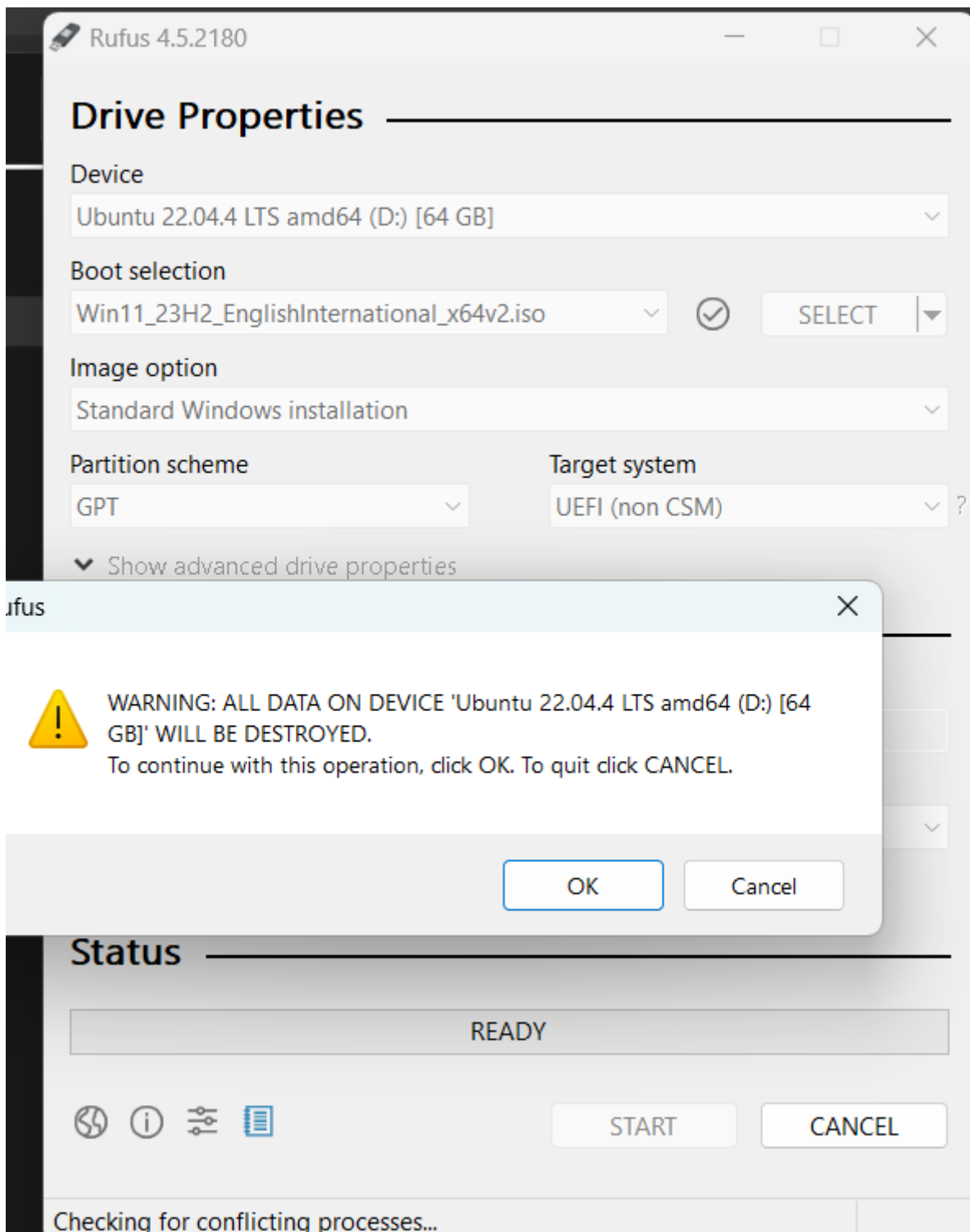


## Widows Installation





Rufus 4.5.2180

Drive Properties

Device

Ubuntu 22.04.4 LTS amd64 (D:) [64 GB]

Boot selection

Win11\_23H2\_EnglishInternational\_x64v2.iso

☒

SELECT

Image option

Standard Windows installation

Partition scheme

GPT

Target system

UEFI (non CSM)

☐ Show advanced drive properties

Format Options

Volume label

CCCOMA\_X64FRE\_EN-GB\_DV9

File system

NTFS

Cluster size

4096 bytes (Default)

☐ Show advanced format options

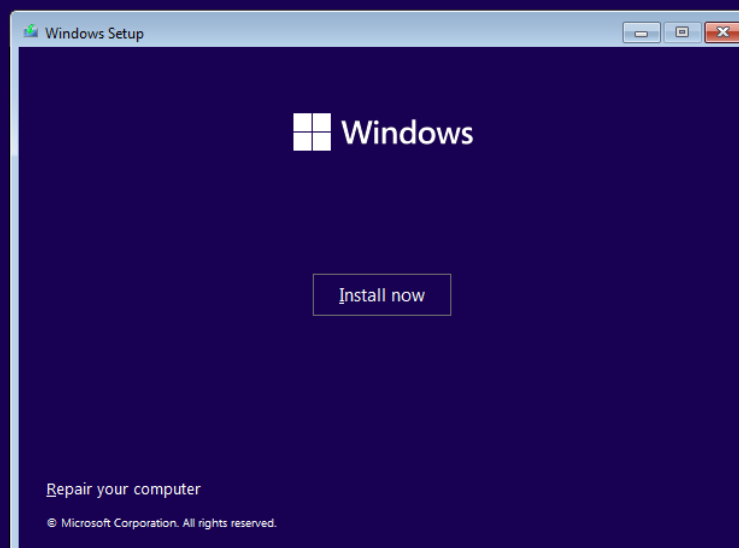
Status

Copying ISO files: 0.6%

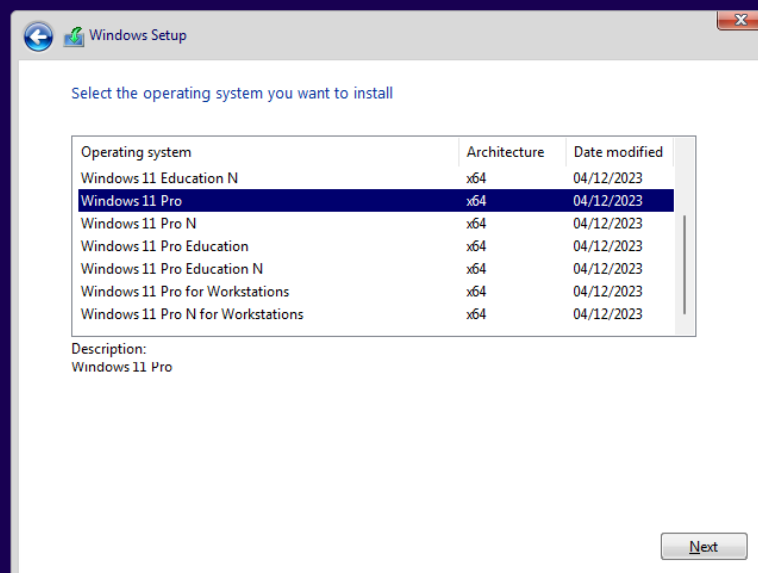
START

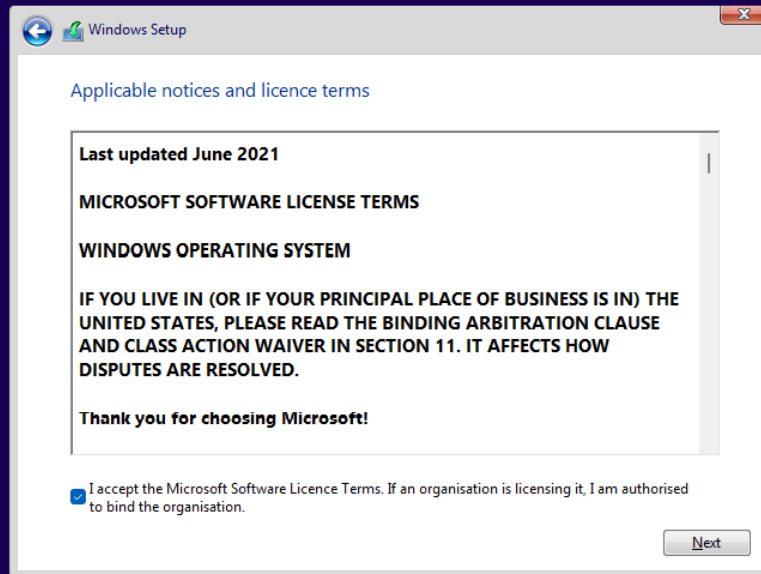
CANCEL

D:\efi\microsoft\boot\fonts\msyh\_boot.ttf (171.2 KB)00:00:27

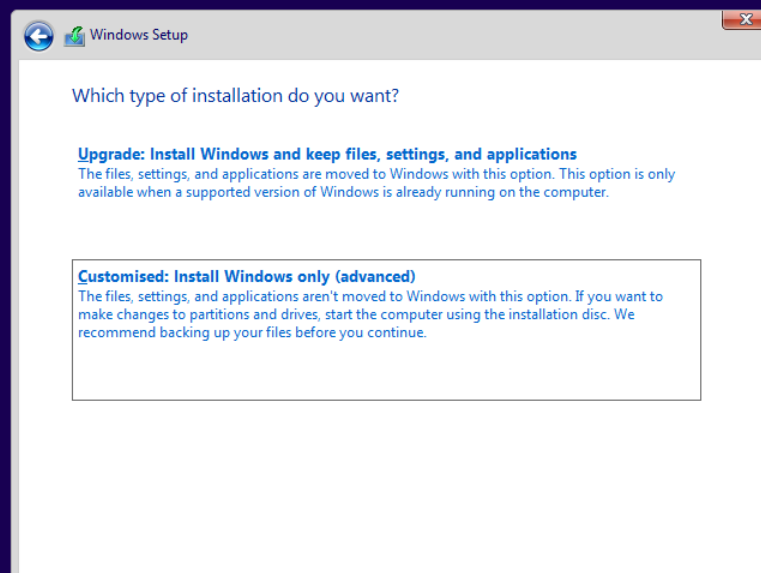


Setup is starting

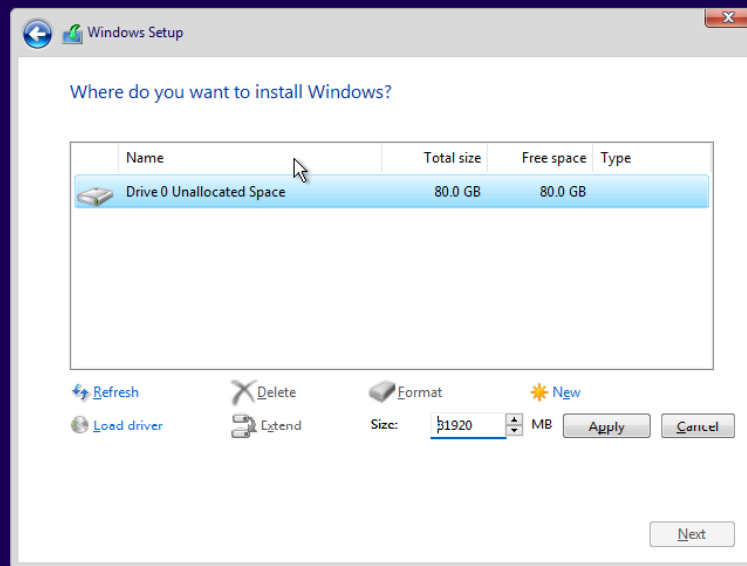




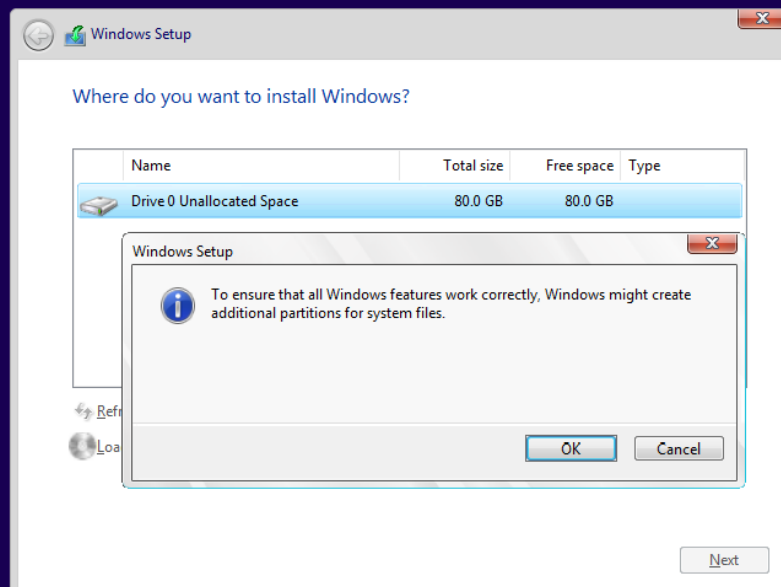
1 Collecting information 2 Installing Windows



1 Collecting information 2 Installing Windows

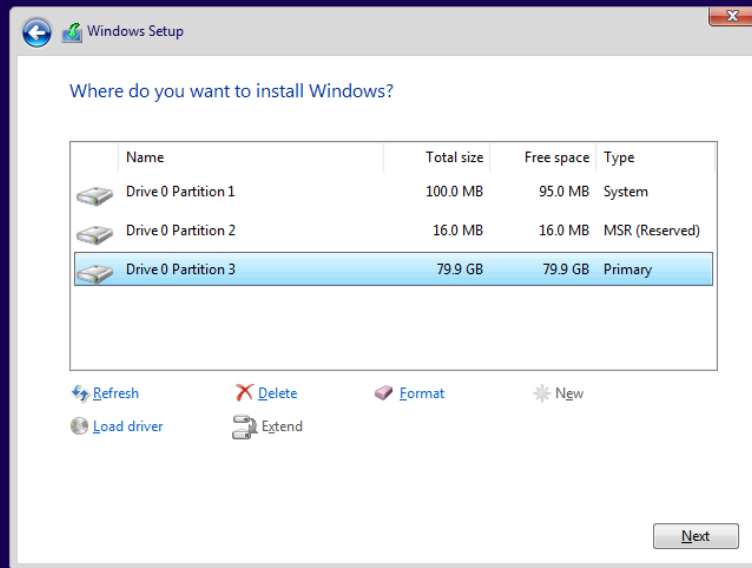


1 Collecting information 2 Installing Windows



1 Collecting information 2 Installing Windows



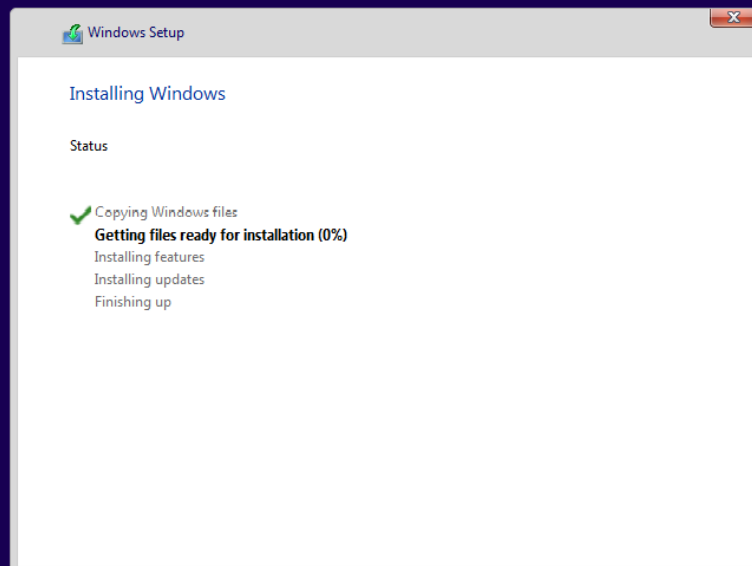


1

Collecting information

2

Installing Windows



1

Collecting information

2

Installing Windows

Is this the right country or region?



Oman

Pakistan

Palau

Palestinian Authority

Yes

Volume

Is this the right keyboard layout or input method?

If you also use another keyboard layout, you can add that next.



United States-Dvorak for right hand

United States-International

US

Albanian

Yes

## Who's going to use this device?

You'll use this name to sign in to your device.



Enter your name

Kashif Khan



Next



## Who's going to use this device?

You'll use this name to sign in to your device.



Enter your name

Muhammad Hussain



Next





## Create a really memorable password

Make sure that you pick something you'll absolutely remember.



Enter a password



Next



## Confirm your password

Enter your password one last time.





Password confirmation



Next





## Now add security questions

Just in case you forget your password, choose 3 security questions. Make sure your answers are unforgettable.

Security question (1 of 3)


This field is required.

What was your first pet's name?

This field is required.

tommy

Next



## Choose privacy settings for your device

Microsoft puts you in control of your privacy. Choose your settings, then select **Accept** to save them. You can change these settings at any time.

Location

Get location-based experiences like directions and weather. Let Windows and apps request your location and allow Microsoft to use your location data to improve location services.

☒ Yes

Find my device

Turn on Find my device and use your device's location data to help you find your

Learn more

Next

Hi.

Getting things ready for you.

This might take a few minutes.

Don't turn off your PC



Search



ENG  
UK

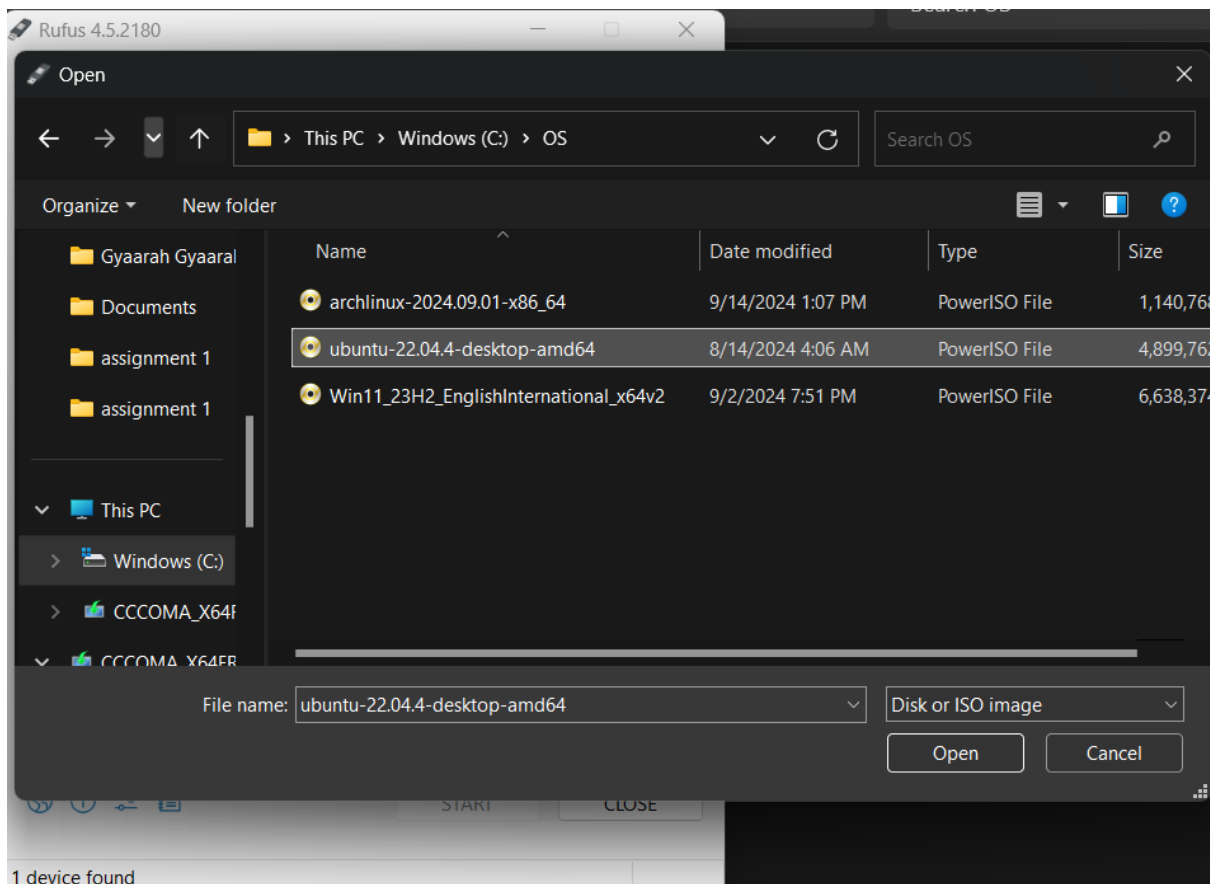


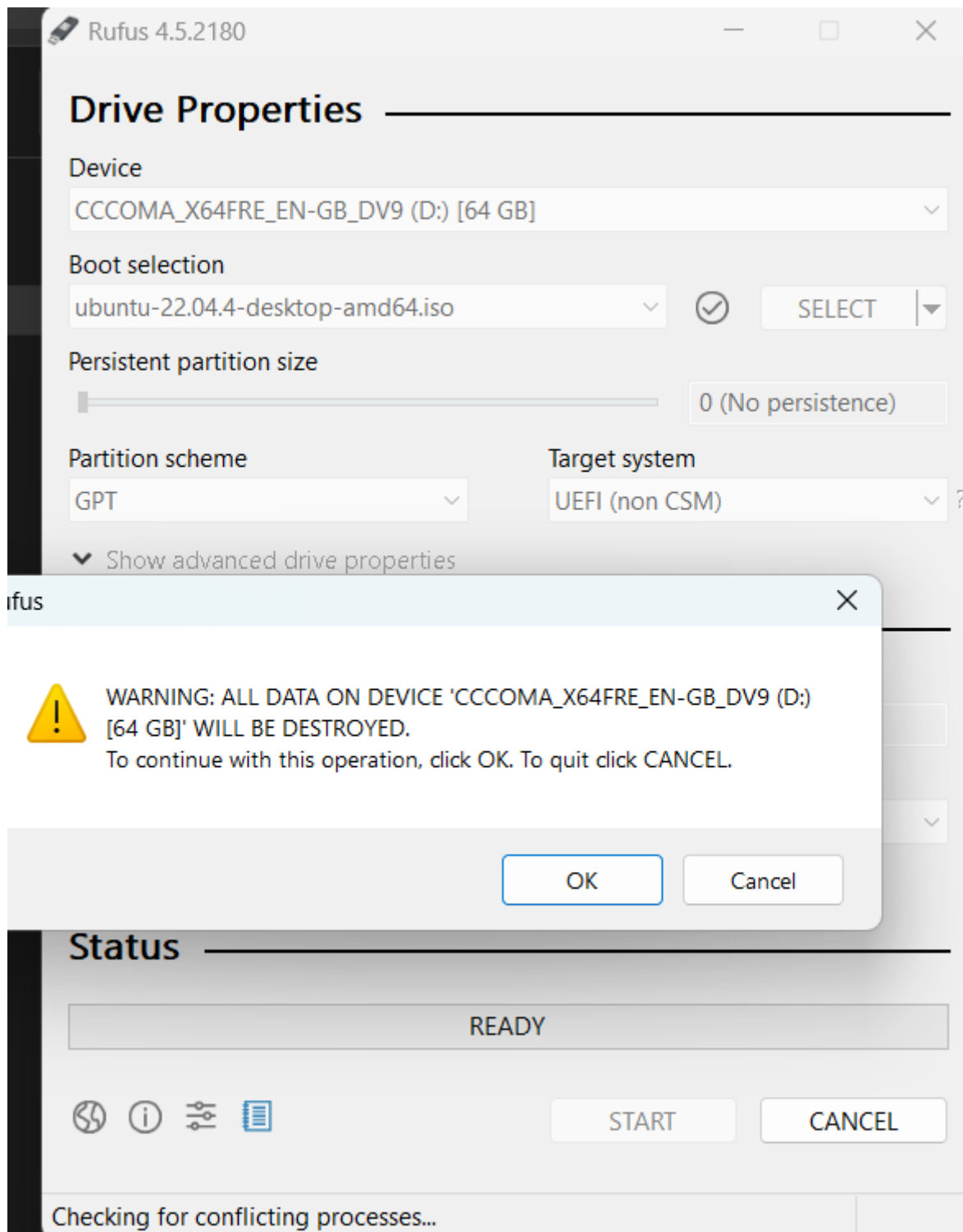
10:18 pm  
14/09/2024



# Ubuntu Installation





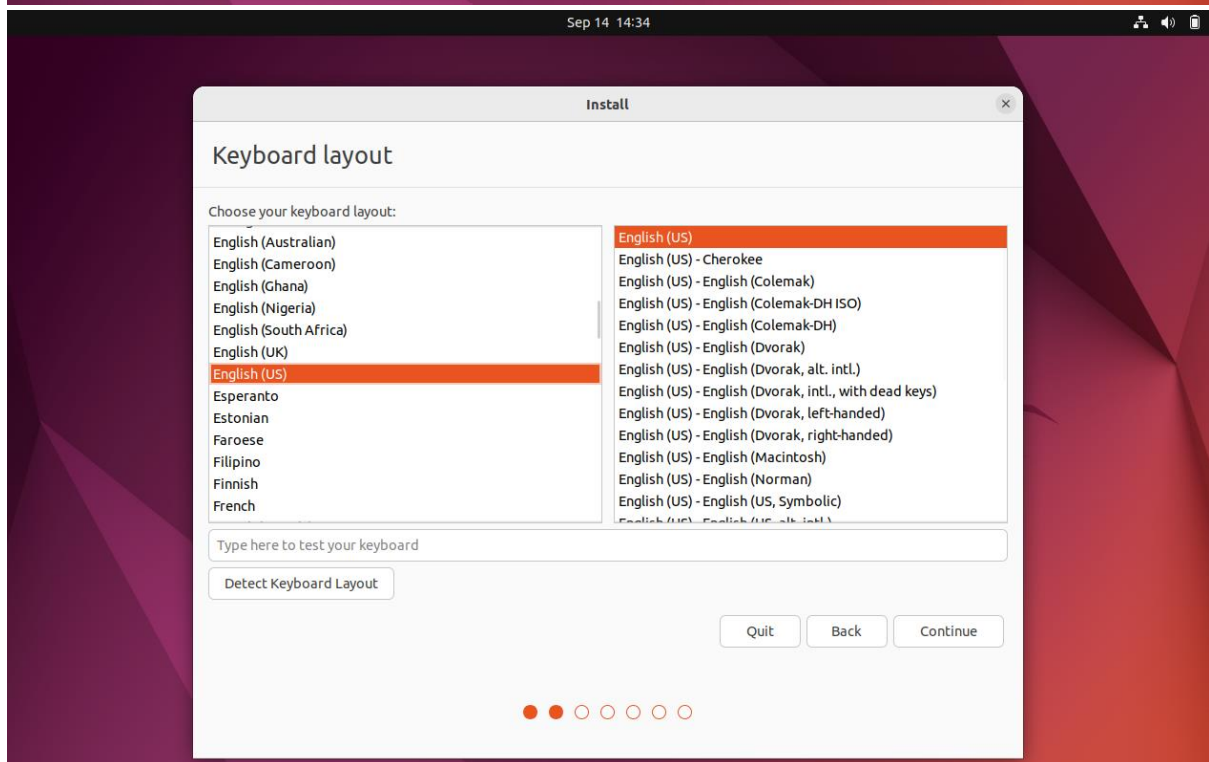
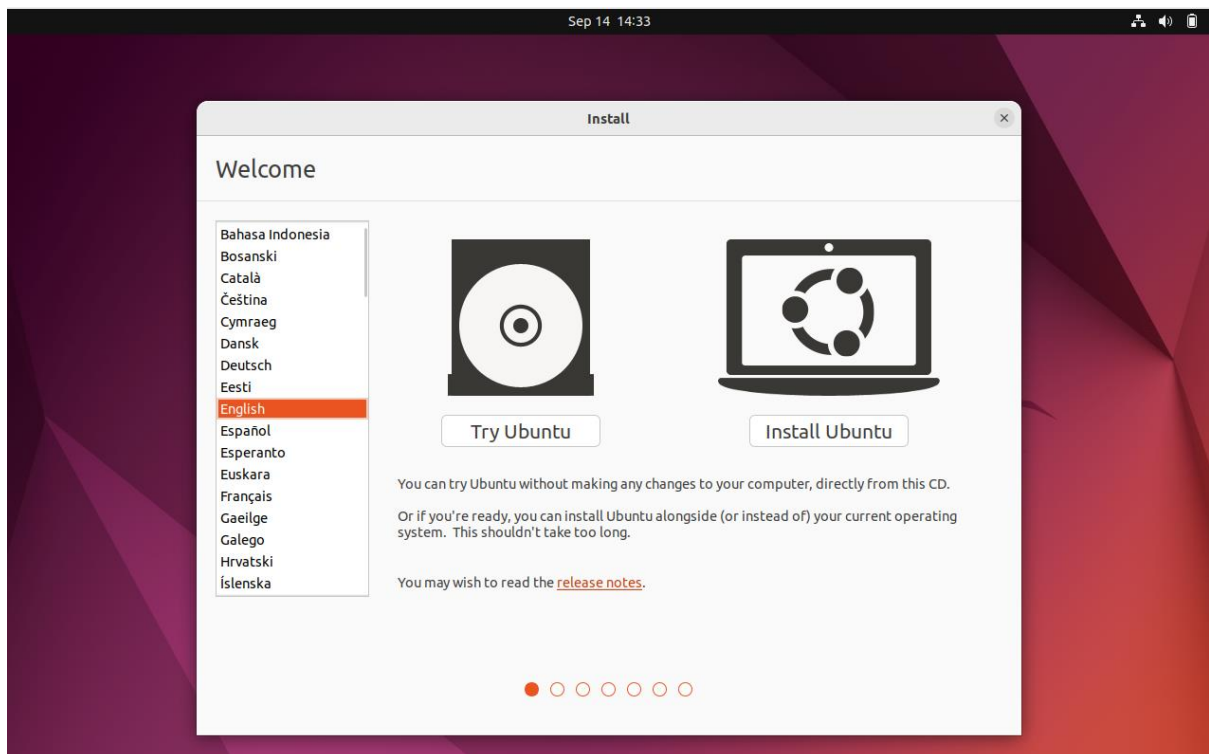


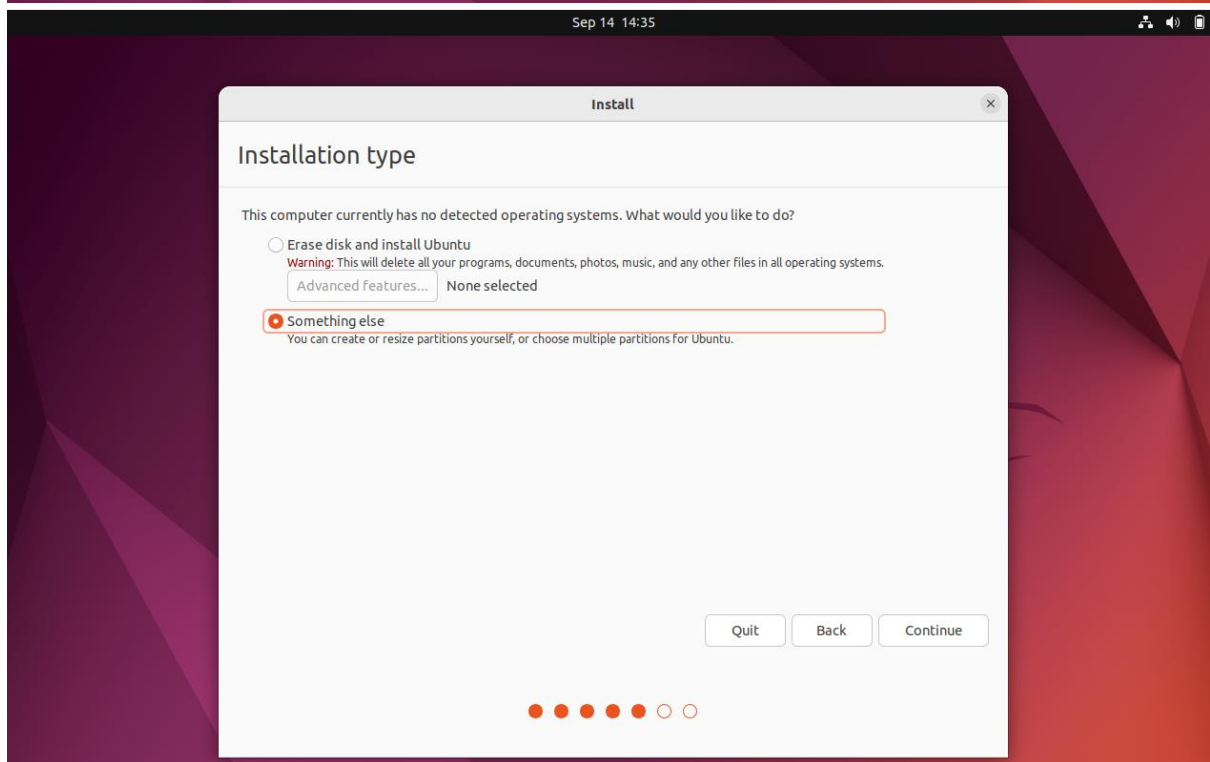
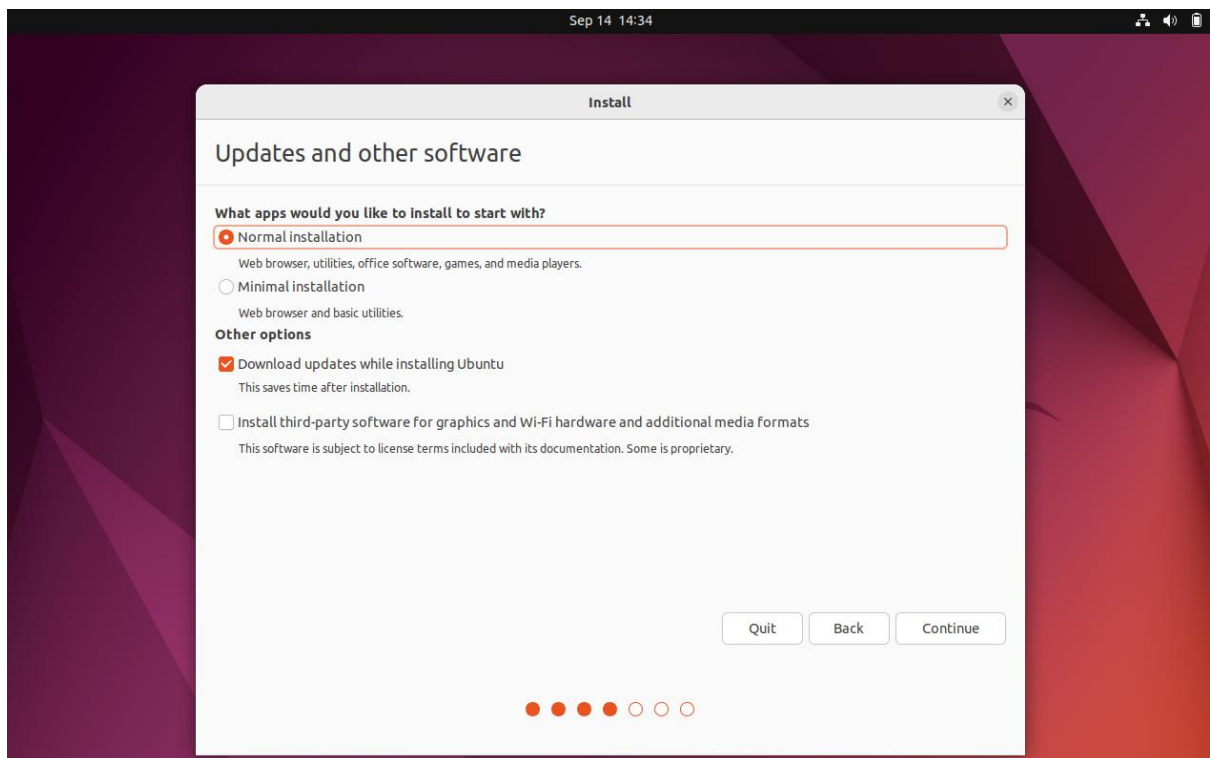
GNU GRUB version 2.06

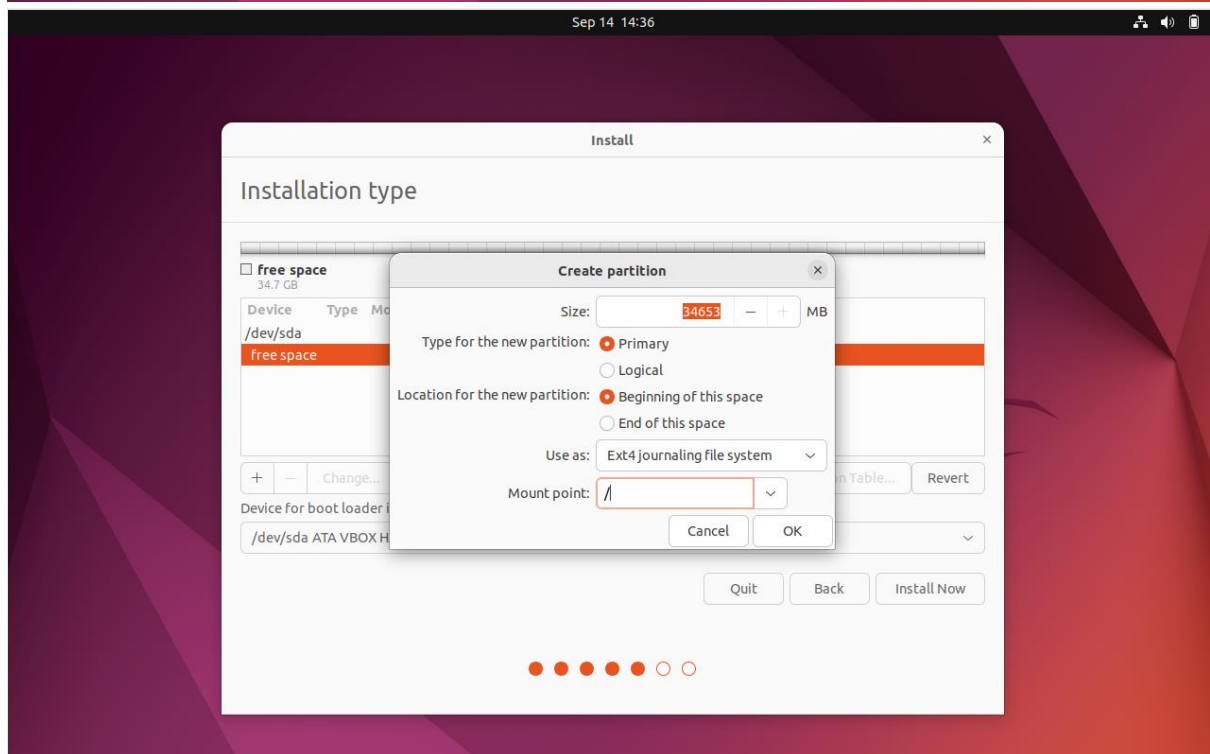
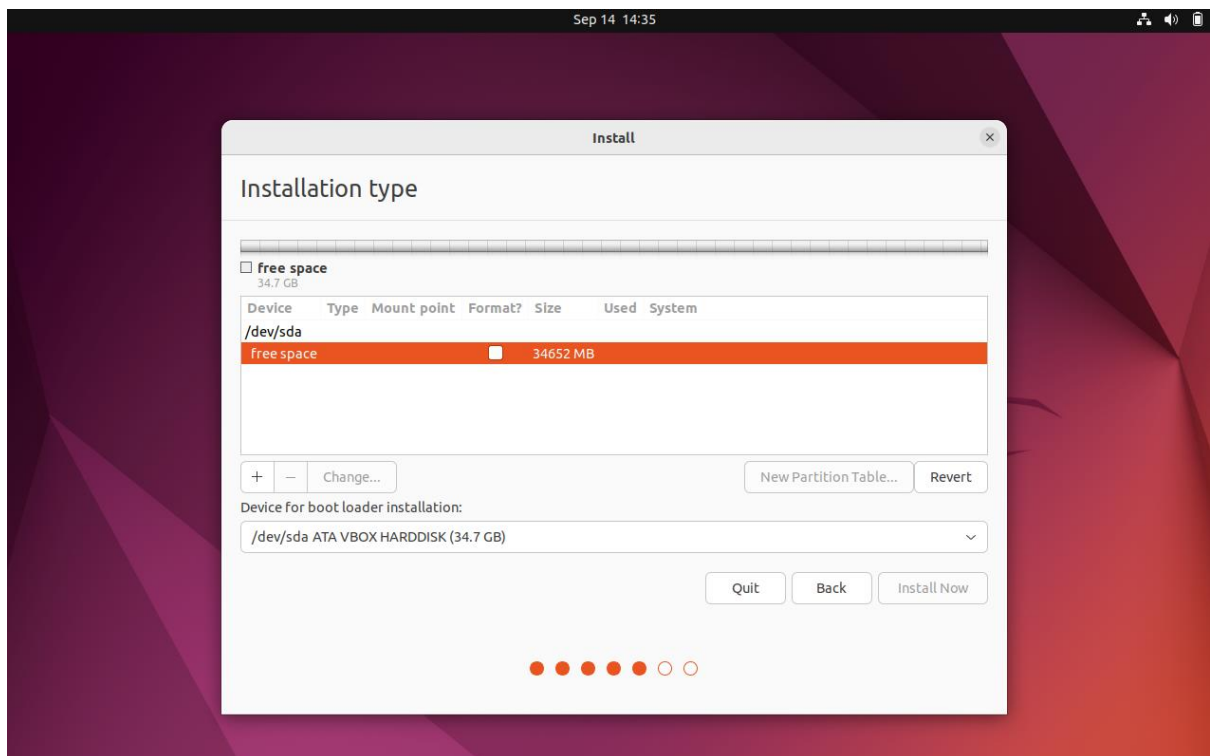
```
*Try or Install Ubuntu
Ubuntu (safe graphics)
OEM install (for manufacturers)
Test memory
```

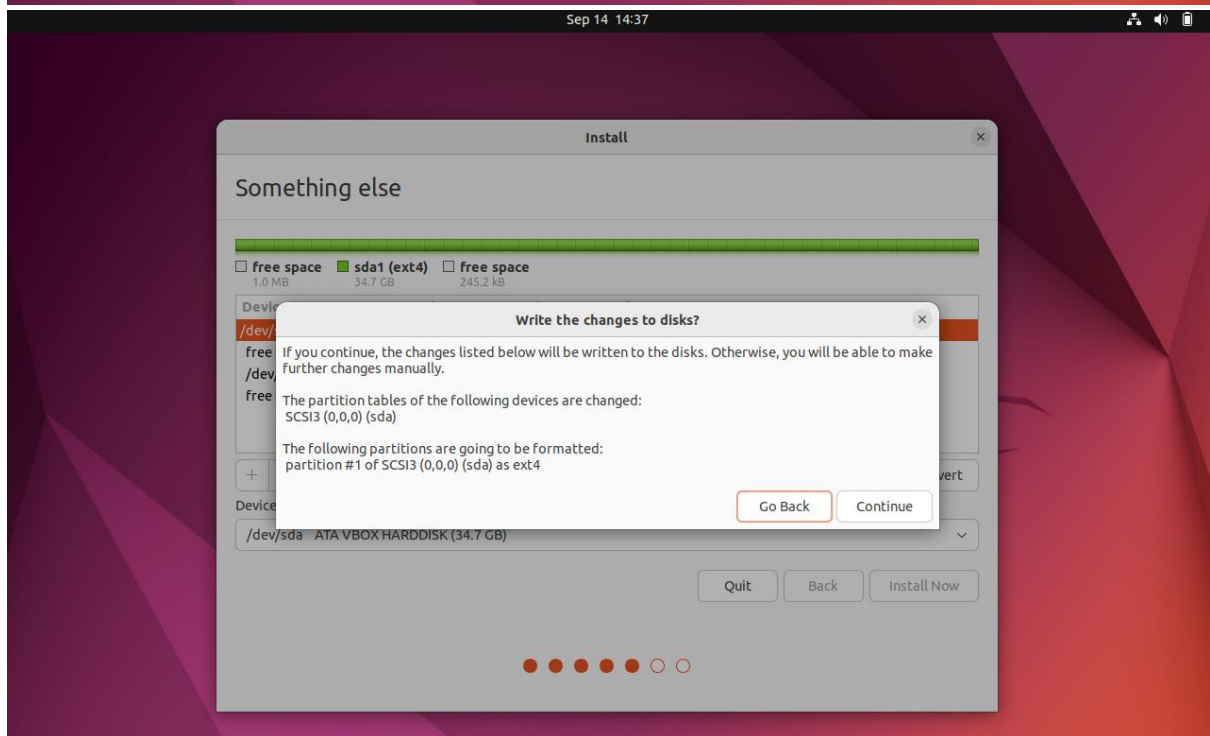
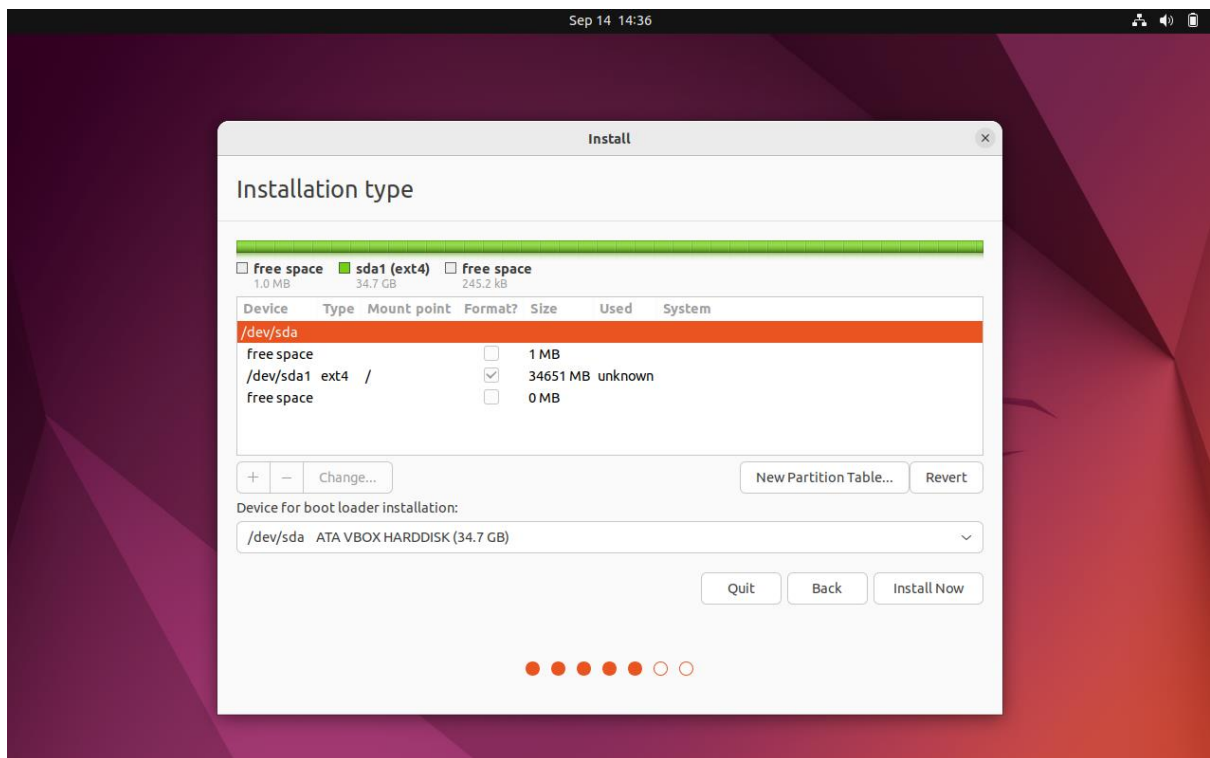
Use the ↑ and ↓ keys to select which entry is highlighted.  
Press enter to boot the selected OS, 'e' to edit the commands  
before booting or 'c' for a command-line.  
The highlighted entry will be executed automatically in 3s.












Sep 14 14:37



Install

### Where are you?



Karachi

Back Continue

Progress: 6 dots, 5th dot active

Sep 14 19:38



Install

### Who are you?

Your name: Kashifkhan ✓

Your computer's name: kashifkhan ✓  
The name it uses when it talks to other computers.

Pick a username: kashifkhan ✓

Choose a password: ●●●● 🔒 Short password

Confirm your password: ●●●● ✓

☐ Log in automatically

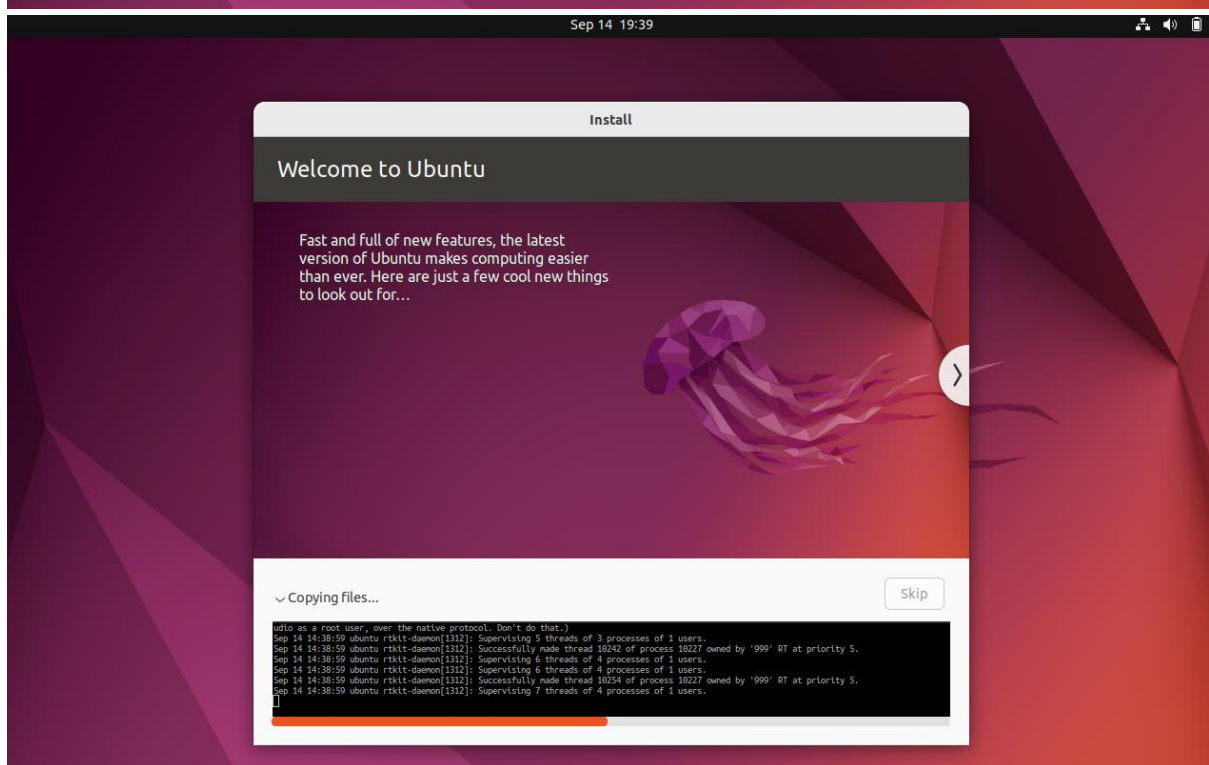
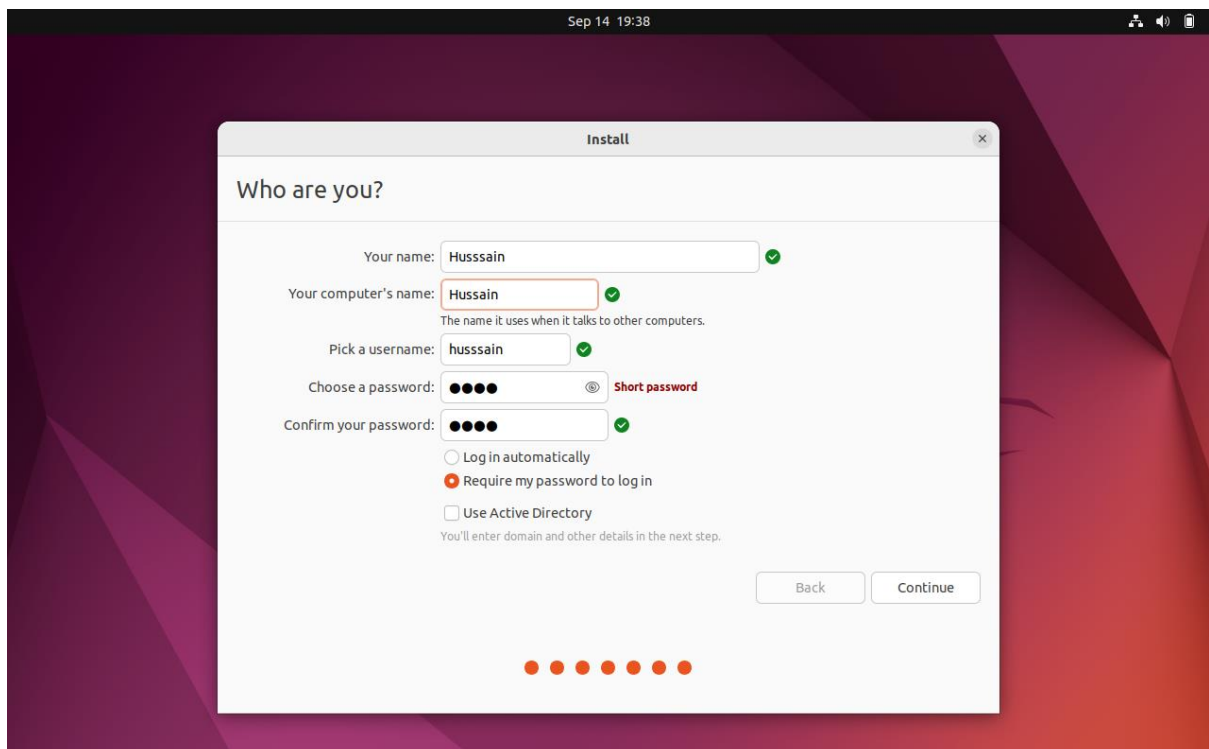
☒ Require my password to log in

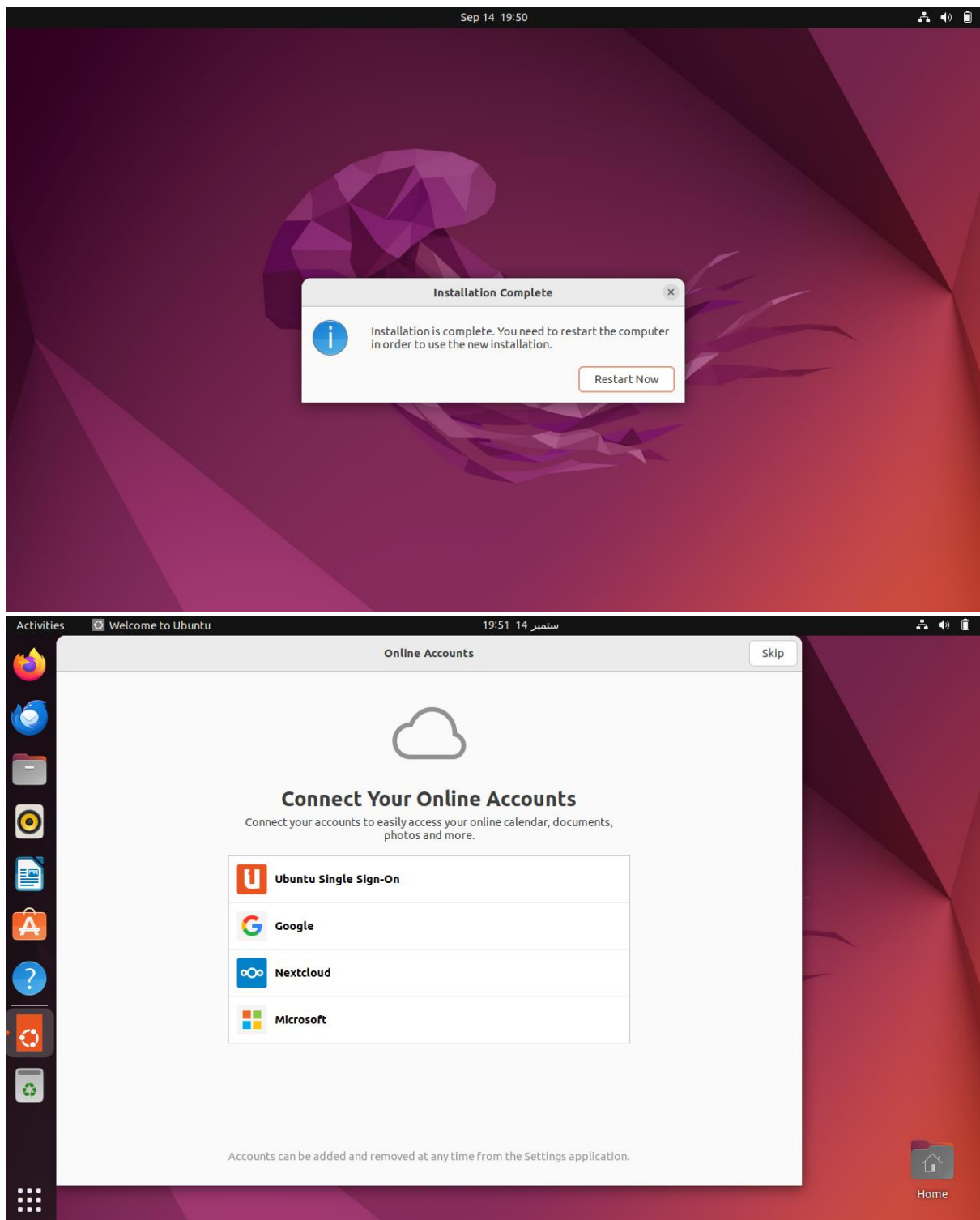
☐ Use Active Directory  
You'll enter domain and other details in the next step.

Back Continue

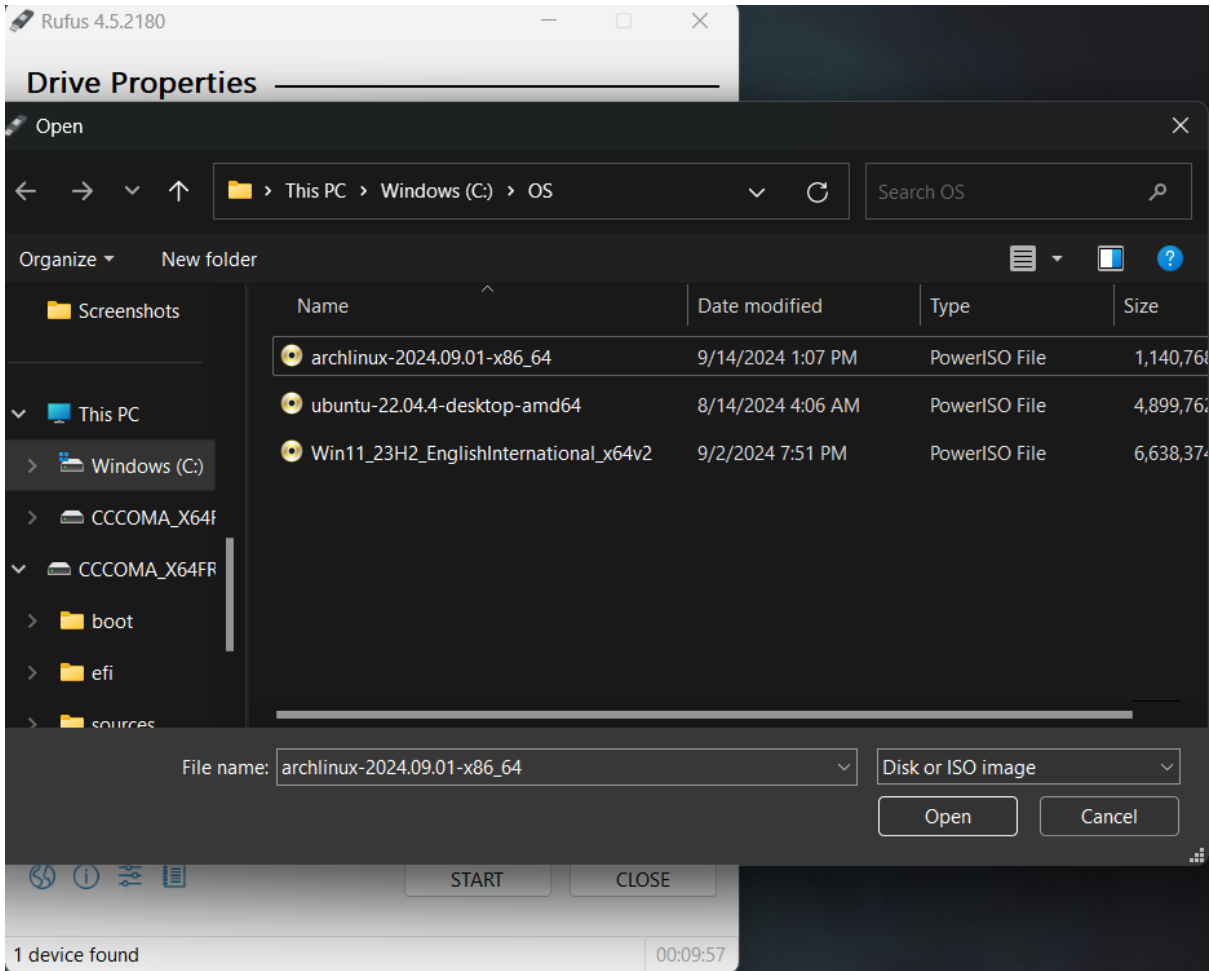
Progress: 7 dots, 7th dot active

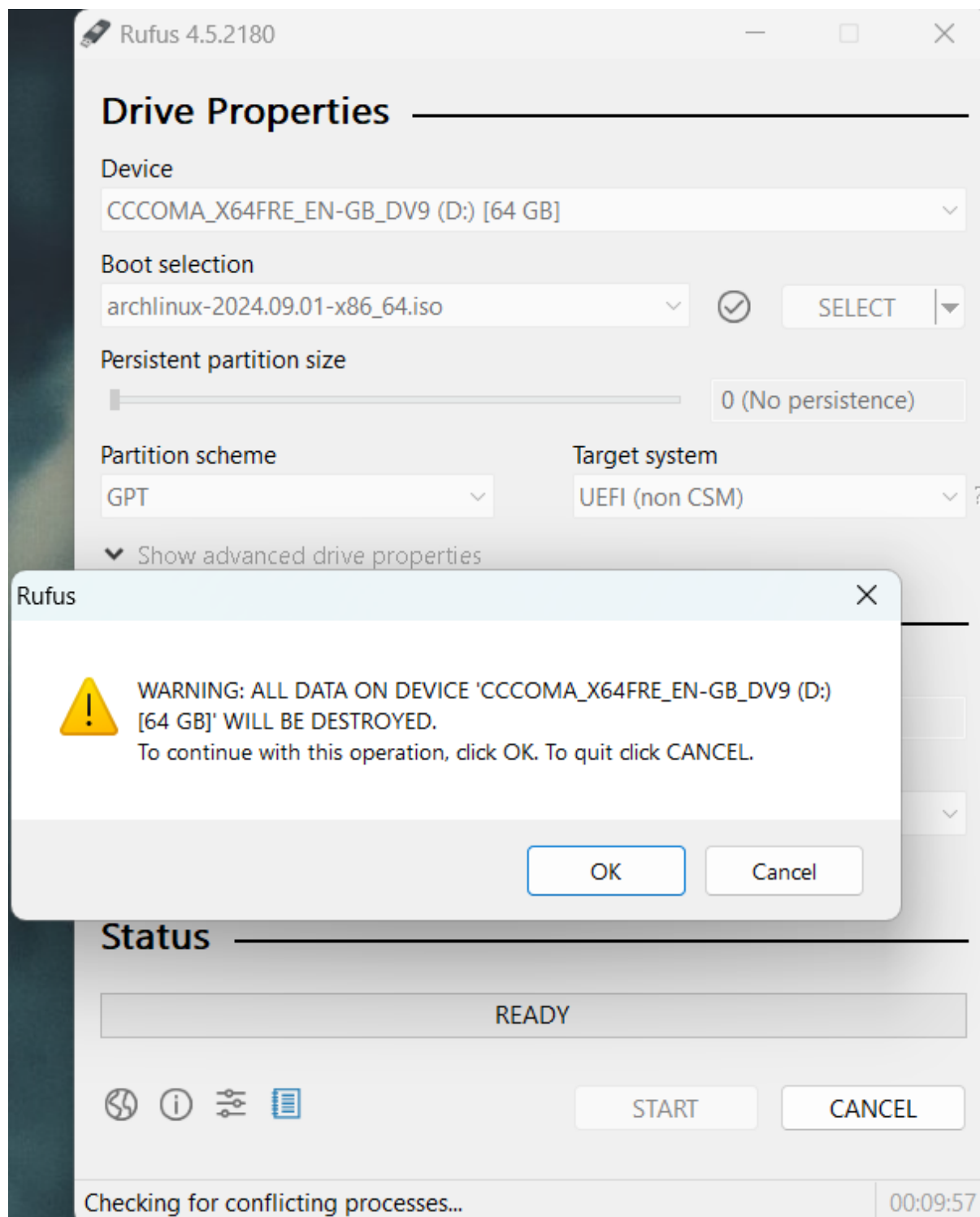






# Arch Installation







# archlinux™

A simple, lightweight linux distribution.

## Arch Linux

Arch Linux install medium (x86\_64, BIOS)  
Arch Linux install medium (x86\_64, BIOS) with speech  
Boot existing OS  
Run Memtest86+ (RAM test)  
Hardware Information (HDT)  
Reboot  
Power Off

Press [Tab] to edit options

Boot the Arch Linux install medium on BIOS.  
It allows you to install Arch Linux or perform system maintenance.

Automatic boot in 13 seconds...

Arch Linux 6.10.7-arch1-1 (tty1)

archiso login: root (automatic login)

To install Arch Linux follow the installation guide:  
[https://wiki.archlinux.org/title/Installation\\_guide](https://wiki.archlinux.org/title/Installation_guide)

For Wi-Fi, authenticate to the wireless network using the `iwctl` utility.  
For mobile broadband (WWAN) modems, connect with the `mmcli` utility.  
Ethernet, WLAN and WWAN interfaces using DHCP should work automatically.

After connecting to the internet, the installation guide can be accessed  
via the convenience script `Installation_guide`.

root@archiso ~ #

```
Arch Linux 6.10.7-arch1-1 (tty1)
```

```
archiso login: root (automatic login)
```

To install **Arch Linux** follow the installation guide:  
[https://wiki.archlinux.org/title/Installation\\_guide](https://wiki.archlinux.org/title/Installation_guide)

For Wi-Fi, authenticate to the wireless network using the **iwctl** utility.  
For mobile broadband (WWAN) modems, connect with the **mmcli** utility.  
Ethernet, WLAN and WWAN interfaces using DHCP should work automatically.

After connecting to the internet, the installation guide can be accessed  
via the convenience script **Installation\_guide**.

```
root@archiso ~ # archinstall
```

Set/Modify the below options

Archinstall language	English (100%)
> <b>Mirrors</b>	
Locales	Defined
Disk configuration	
Bootloader	Grub
Swap	True
Hostname	archlinux
Root password	
User account	
Profile	
Audio	No audio server
Kernels	linux
Additional packages	
Network configuration	Not configured, unavailable unless setup manually
Timezone	UTC
Automatic time sync (NTP)	True
Optional repositories	
Save configuration	
Install (2 config(s) missing)	
Abort	

(Press "/" to search)

CTRL+C to reset

Set/Modify the below options

```
> Mirror region
  Custom mirrors
  ← Back
(Press "/" to search)
```

ESC to skip, CTRL+C to reset, TAB to select

Select one of the regions to download packages from

- ☐ Hungary
- ☐ Iceland
- ☐ India
- ☐ Indonesia
- ☐ Iran
- ☐ Israel
- ☐ Italy
- ☐ Japan
- ☐ Kazakhstan
- ☐ Kenya
- ☐ Latvia
- ☐ Lithuania
- ☐ Mauritius
- ☐ Mexico
- ☐ Moldova
- ☐ Netherlands
- ☐ New Caledonia
- ☐ New Zealand
- ☐ North Macedonia
- ☐ Norway
- ☐ Poland
- ☐ Portugal
- ☐ Romania
- ☐ Russia
- ☐ Réunion
- > ☒ Saudi Arabia
- ☐ Serbia
- ☐ Singapore
- ☐ Slovakia
- ☐ Slovenia
- ☐ South Africa
- ☐ South Korea
- ☐ Spain
- ☐ Sweden
- ☐ Switzerland
- ☐ Taiwan
- ☐ Thailand
- ☐ Türkiye
- ☐ Ukraine
- ☐ United Kingdom
- ☐ United States
- ☐ Uzbekistan
- ☐ Vietnam
- ☐ Worldwide

(Press "/" to search)

```
CTRL+C to reset

Set/Modify the below options

Mirror region          Saudi Arabia
Custom mirrors
> ← Back
(Press "/" to search)
```

```
Set/Modify the below options

Archinstall language    English (100%)
Mirrors                 Defined
Locales                 Defined
> Disk configuration
Bootloader              Grub
Swap                   True
Hostname               archlinux
Root password
User account
Profile
Audio                  No audio server
Kernels                 linux
Additional packages
Network configuration    Not configured, unavailable unless setup manually
Timezone               UTC
Automatic time sync (NTP) True
Optional repositories

Save configuration
Install (2 config(s) missing)
Abort
(Press "/" to search)
```

```
CTRL+C to reset

Set/Modify the below options

> Partitioning
  ← Back
(Press "/" to search)
```

```
ESC to skip, CTRL+C to reset

Select a partitioning option

> Use a best-effort default partition layout
  Manual Partitioning
  Pre-mounted configuration
(Press "/" to search)
```



ESC to skip, CTRL+C to reset, TAB to select

Select one or more devices to use and configure

	Model	Path	Type	Size	Free space	Sector size	Read only
> [*]	ATA VBOX HARDDISK	/dev/sda	scsi	34 GB	33047	512	False
[ ]	Loopback device	/dev/loop0	loop	828 MB	790	512	False

Select which filesystem your main partition should use

btrfs  
> ext4  
xfs  
f2fs  
(Press "/" to search)

CTRL+C to reset

Set/Modify the below options

Partitioning Use a best-effort default partition layout  
LVM - Logical Volume Management (BETA)  
> ← Back  
(Press "/" to search)

Set/Modify the below options

Archinstall language English (100%)  
Mirrors Defined  
Locales Defined  
Disk configuration Defined  
Disk encryption  
Bootloader Grub  
Swap True  
Hostname archlinux  
> Root password  
User account  
Profile  
Audio No audio server  
Kernels linux  
Additional packages  
Network configuration Not configured, unavailable unless setup manually  
Timezone UTC  
Automatic time sync (NTP) True  
Optional repositories  
  
Save configuration  
Install (1 config(s) missing)  
Abort  
(Press "/" to search)

Enter root password (leave blank to disable root):

Password strength: very weak

And one more time for verification: \_

Set/Modify the below options

```
Archinstall language      English (100%)
Mirrors                   Defined
Locales                   Defined
Disk configuration        Defined
Disk encryption
Bootloader                Grub
Swap                      True
Hostname                 archlinux
Root password             ****
> User account
Profile
Audio                     No audio server
Kernels                   linux
Additional packages
Network configuration      Not configured, unavailable unless setup manually
Timezone                  UTC
Automatic time sync (NTP) True
Optional repositories

Save configuration
Install
Abort
(Press "/" to search)
```

Choose an object from the list, and select one of the available actions for it to execute

```
> Add a user
Confirm and exit
Cancel
```

Choose an object from the list, and select one of the available actions for it to execute

```
> Add a user
Confirm and exit
Cancel
```

Enter username (leave blank to skip): TestUser  
The username you entered is invalid. Try again

Enter username (leave blank to skip): test  
Password for user "test":  
Password strength: very weak  
And one more time for verification:

Choose an object from the list, and select one of the available actions for it to execute

```
> Add a user
Confirm and exit
Cancel
```

Enter username (leave blank to skip): TestUser  
The username you entered is invalid. Try again

Enter username (leave blank to skip): test  
Password for user "test":  
Password strength: very weak  
And one more time for verification:

Should "test" be a superuser (sudo)?

```
> yes (default)
no
```

Choose an object from the list, and select one of the available actions for it to execute

username	password	sudo
test	*****	True

Add a user

> Confirm and exit

Cancel

Set/Modify the below options

Archinstall language	English (100%)
Mirrors	Defined
Locales	Defined
Disk configuration	Defined
Disk encryption	
Bootloader	Grub
Swap	True
Hostname	archlinux
Root password	****
User account	1 User(s)
Profile	
> Audio	No audio server
Kernels	linux
Additional packages	
Network configuration	Not configured, unavailable unless setup manually
Timezone	UTC
Automatic time sync (NTP)	True
Optional repositories	

Save configuration

Install

Abort

(Press "/" to search)

ESC to skip

Choose an audio server

No audio server

> Pipewire

Pulseaudio

(Press "/" to search)

Set/Modify the below options

Archinstall language	English (100%)
Mirrors	Defined
Locales	Defined
Disk configuration	Defined
Disk encryption	
Bootloader	Grub
Swap	True
Hostname	archlinux
Root password	****
User account	1 User(s)
Profile	
Audio	Pipewire
Kernels	linux
Additional packages	
> Network configuration	Not configured, unavailable unless setup manually
Timezone	UTC
Automatic time sync (NTP)	True
Optional repositories	
Save configuration	
Install	
Abort	

(Press "/" to search)

ESC to skip, CTRL+C to reset

Select one network interface to configure

Copy ISO network configuration to installation

> Use NetworkManager (necessary to configure internet graphically in GNOME and KDE Plasma)

Manual configuration

(Press "/" to search)

Set/Modify the below options

Archinstall language	English (100%)
Mirrors	Defined
Locales	Defined
Disk configuration	Defined
Disk encryption	
Bootloader	Grub
Swap	True
Hostname	archlinux
Root password	****
User account	1 User(s)
Profile	
Audio	Pipewire
Kernels	linux
Additional packages	
Network configuration	Use NetworkManager (necessary to configure internet graphically in GNOME and KDE Plasma)
> Timezone	UTC
Automatic time sync (NTP)	True
Optional repositories	
Save configuration	
Install	
Abort	

(Press "/" to search)

ESC to skip

Select a timezone

> Asia/Karachi

/Kara

```

Set/Modify the below options

Archinstall language      English (100%)
Mirrors                   Defined
Locales                   Defined
Disk configuration        Defined
Disk encryption
Bootloader                Grub
Swap                      True
Hostname                  archlinux
Root password             *****
User account              1 User(s)
Profile
Audio                     Pipewire
Kernels                   linux
Additional packages
Network configuration     Use NetworkManager (necessary to configure internet graphically in GNOME and KDE Plasma)
Timezone                  Asia/Karachi
Automatic time sync (NTP) True
> Optional repositories

Save configuration
Install
Abort
(Press "/" to search)

```

```

Set/Modify the below options

Archinstall language      English (100%)
Mirrors                   Defined
Locales                   Defined
Disk configuration        Defined
Disk encryption
Bootloader                Grub
Swap                      True
Hostname                  archlinux
Root password             *****
User account              1 User(s)
> Profile
Audio                     Pipewire
Kernels                   linux
Additional packages
Network configuration     Use NetworkManager (necessary to configure internet graphically in GNOME and KDE Plasma)
Timezone                  Asia/Karachi
Automatic time sync (NTP) True
Optional repositories

Save configuration
Install
Abort
(Press "/" to search)

```

```

CTRL+C to reset

Set/Modify the below options

> Type
  ← Back
(Press "/" to search)

```

ESC to skip, CTRL+C to reset

This is a list of pre-programmed default\_profiles

```

> Desktop
  Minimal
  Server
  Xorg
(Press "/" to search)

```

```

  Info
  -----
  Installed packages:
  htop                  iwd                  nano
  openssh               smartmontools       vim
  wget                  wireless_tools      wpa_supplicant
  xdg-utils

```

ESC to skip, CTRL+C to reset, TAB to select

Select your desired desktop environment

```
[ ] Awesome
[ ] Bspwm
[ ] Budgie
[ ] Cinnamon
[ ] Cutefish
[ ] Deepin
[ ] Enlightenment
> [*] Gnome
[ ] Hyprland
[ ] i3-wm
[ ] KDE Plasma
[ ] Lxqt
[ ] Mate
[ ] Qtile
[ ] Sway
[ ] Xfce4
```

(Press "/" to search)

Info

Environment type: Desktop Environment  
Installed packages:  
gnome  
gnome-tweaks

CTRL+C to reset

Set/Modify the below options

Type	Desktop
Graphics driver	All open-source
Greeter	gdm

> **← Back**

(Press "/" to search)

Set/Modify the below options

Archinstall language	English (100%)
Mirrors	Defined
Locales	Defined
Disk configuration	Defined
Disk encryption	
Bootloader	Grub
Swap	True
Hostname	archlinux
Root password	****
User account	1 User(s)
Profile	Desktop
Audio	Pipewire
Kernels	linux
Additional packages	
Network configuration	Use NetworkManager (necessary to configure internet graphically in GNOME and KDE Plasma)
Timezone	Asia/Karachi
Automatic time sync (NTP)	True
Optional repositories	

Save configuration

> **Install**

Abort

(Press "/" to search)

```

    "kernels": [
        "linux"
    ],
    "locale_config": {
        "kb_layout": "us",
        "sys_enc": "UTF-8",
        "sys_lang": "en_US"
    },
    "mirror_config": {
        "custom_mirrors": [],
        "mirror_regions": {
            "Saudi Arabia": [
                "http://sa.mirrors.cicku.me/archlinux/$repo/os/$arch",
                "https://sa.mirrors.cicku.me/archlinux/$repo/os/$arch"
            ]
        }
    },
    "network_config": {
        "type": "nm"
    },
    "no_pkg_lookups": false,
    "ntp": true,
    "offline": false,
    "packages": [],
    "parallel_downloads": 0,
    "profile_config": {
        "gfx_driver": "All open-source",
        "greeter": "gdm",
        "profile": {
            "custom_settings": {
                "Gnome": {}
            },
            "details": [
                "Gnome"
            ],
            "main": "Desktop"
        }
    },
    "save_config": null,
    "script": "guided",
    "silent": false,
    "skip_ntp": false,
    "skip_version_check": false,
    "swap": true,
    "timezone": "Asia/Karachi",
    "uki": false,
    "version": "2.8.6"
}

```

Press Enter to continue.



```
Total Download Size: 610.42 MiB
Total Installed Size: 1366.99 MiB
```

```
:: Retrieving packages...
```

ESC to skip

yes (default)

> no

(Press "/" to search)

Arch Linux 6.10.7-arch1-1 (tty1)

archiso login: root (automatic login)

To install Arch Linux follow the installation guide:  
[https://wiki.archlinux.org/title/Installation\\_guide](https://wiki.archlinux.org/title/Installation_guide)

For Wi-Fi, authenticate to the wireless network using the `iwctl` utility.  
For mobile broadband (WWAN) modems, connect with the `mmcli` utility.  
Ethernet, WLAN and WWAN interfaces using DHCP should work automatically.

After connecting to the internet, the installation guide can be accessed  
via the convenience script `Installation_guide`.



Last login: Sun Sep 15 06:21:37 on tty1

root@archiso ~ # shutdown -h now\_

GNU GRUB version 2:2.12-8


\*Arch Linux

Advanced options for Arch Linux

Use the ↑ and ↓ keys to select which entry is highlighted.  
Press enter to boot the selected OS, 'e' to edit the commands  
before booting or 'c' for a command-line.  
The highlighted entry will be executed automatically in 3s.

Sep 15 12:00 PM



 test


Not listed?



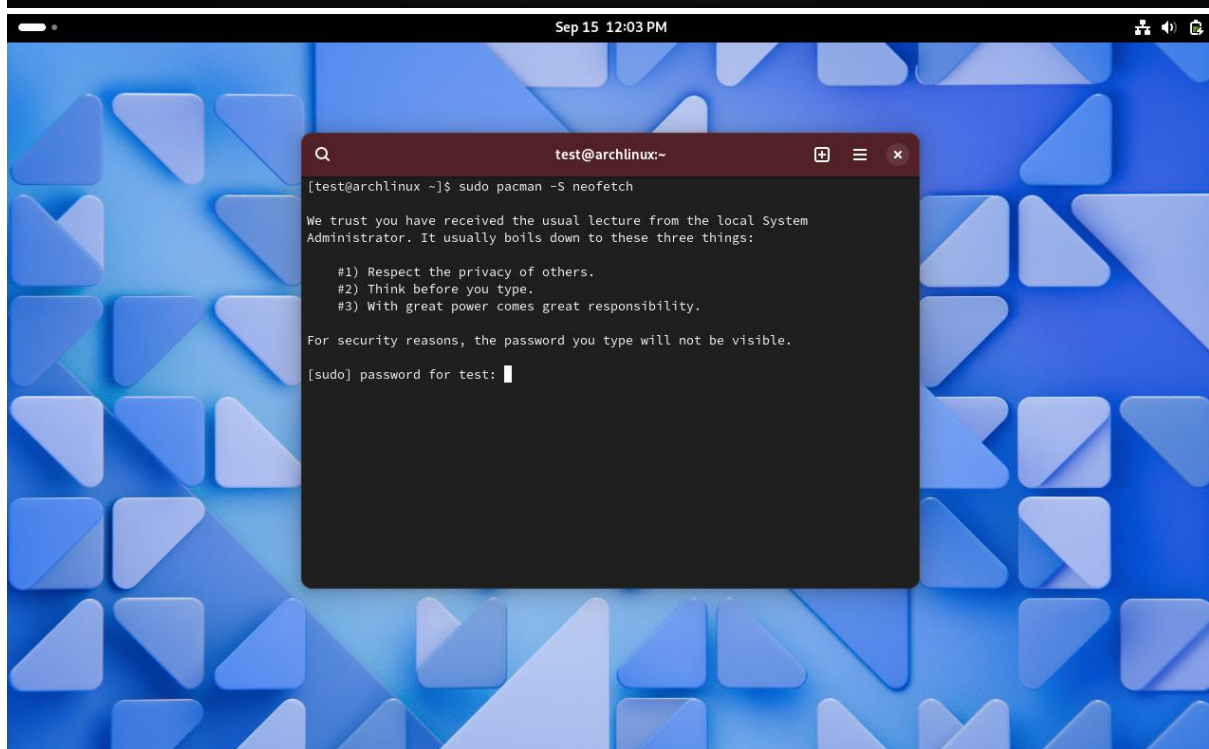
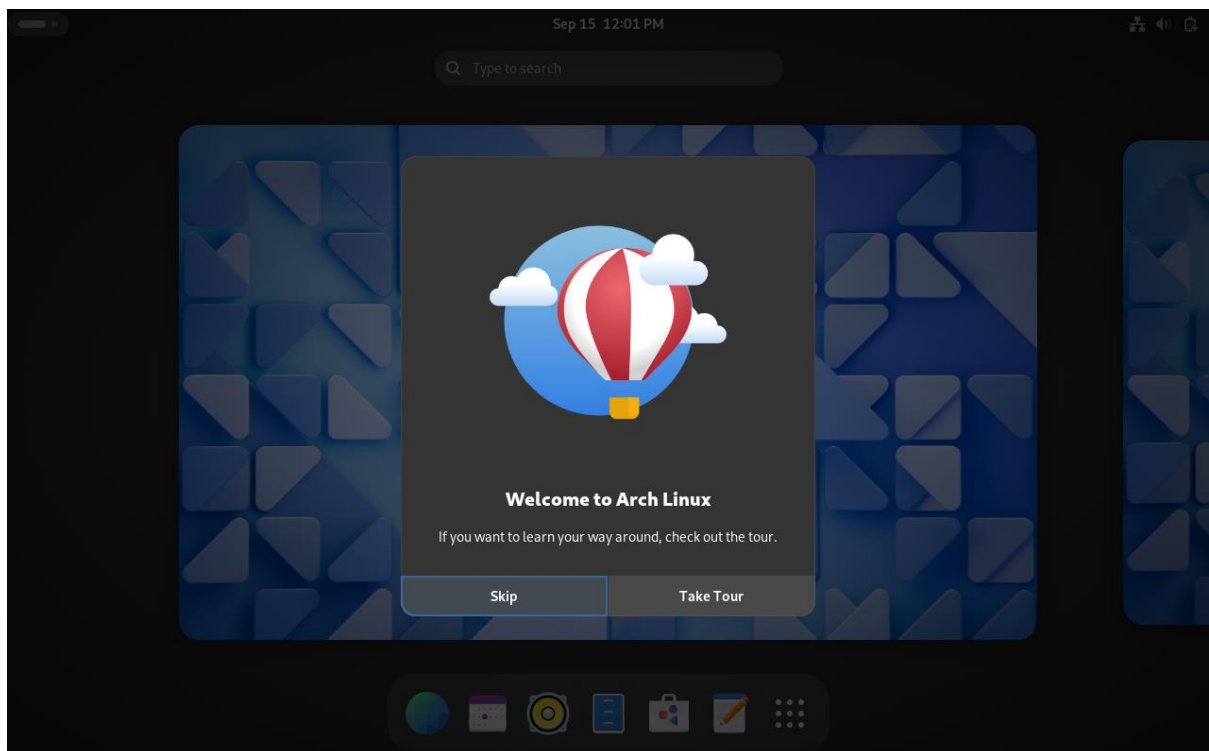
Sep 15 12:01 PM



test

< Password 





```
[test@archlinux ~]$ neofetch
```

```
      _`
     .o+`
    `ooo/
   `+oooo:
  `+oooooo:
 -+ooooooo+:
 `/:-:++oooo+:
 `/++++/+++++++:
 `/++++++++++:+
  `/+000000000000000/`
 .//ooosssso++osssssso+`
 .oosssssso-`-`-`-`/osssssso+`
 -osssssso.      :ssssssso.
 :osssssss/      osssso+++
 /osssssssss/    +sssssoo/-
 `/osssssso+/:~  -:/+osssso+-
 `+sso+:~`        `.-/+oso:
 `++:.            `-/+/
 .`              `-/`
```

test@archlinux

-----

OS: Arch Linux x86\_64

Host: VirtualBox 1.2

Kernel: 6.10.10-arch1-1

Uptime: 5 mins

Packages: 727 (pacman)

Shell: bash 5.2.32

Resolution: 1280x800

DE: GNOME 46.5

WM: Mutter

WM Theme: Adwaita

Theme: Adwaita [GTK2/3]

Icons: Adwaita [GTK2/3]

Terminal: kx

CPU: 12th Gen Intel i7-12650H (4) @ 2.

GPU: 00:02.0 VMware SVGA II Adapter

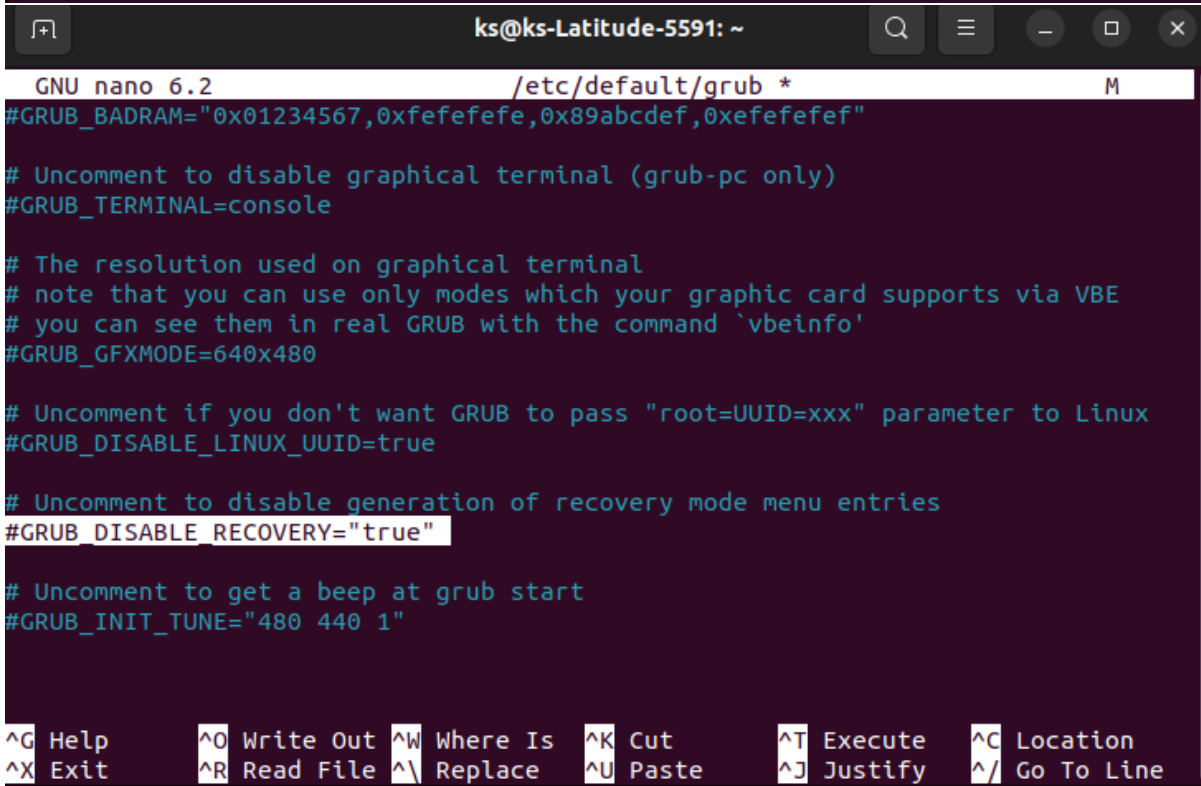
Memory: 1122MiB / 1968MiB



# Assembling Triple Boot

```
(base) ks@ks-Latitude-5591:~$ sudo apt install os-prober
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
os-prober is already the newest version (1.79ubuntu2).
The following packages were automatically installed and are no longer required:
  libwpe-1.0-1 libwpebackend-fdo-1.0-1
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 55 not upgraded.
(base) ks@ks-Latitude-5591:~$
```

```
(base) ks@ks-Latitude-5591:~$ sudo nano /etc/default/grub
```



```
ks@ks-Latitude-5591: ~
GNU nano 6.2 /etc/default/grub *
#GRUB_BADRAM="0x01234567,0xfefefefe,0x89abcdef,0xefefefef"

# Uncomment to disable graphical terminal (grub-pc only)
#GRUB_TERMINAL=console

# The resolution used on graphical terminal
# note that you can use only modes which your graphic card supports via VBE
# you can see them in real GRUB with the command `vbeinfo'
#GRUB_GFXMODE=640x480

# Uncomment if you don't want GRUB to pass "root=UUID=xxx" parameter to Linux
#GRUB_DISABLE_LINUX_UUID=true

# Uncomment to disable generation of recovery mode menu entries
#GRUB_DISABLE_RECOVERY="true"

# Uncomment to get a beep at grub start
#GRUB_INIT_TUNE="480 440 1"

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify  ^_ Go To Line
```

```
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#GRUB_INIT_TUNE="480 440 1"

File Name to Write: /etc/default/grub
^G Help      M-D DOS Format  M-A Append     M-B Backup File
^C Cancel    M-M Mac Format  M-P Prepend    ^T Browse
```

```
(base) ks@ks-Latitude-5591:~$ sudo os-prober
/dev/sda5:Arch Linux:Arch:linux
/dev/sdb1@/EFI/Microsoft/Boot/bootmgfw.efi:Windows Boot Manager:Windows:efi

(base) ks@ks-Latitude-5591:~$ sudo update-grub
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-6.8.0-40-generic
Found initrd image: /boot/initrd.img-6.8.0-40-generic
Found linux image: /boot/vmlinuz-6.5.0-18-generic
Found initrd image: /boot/initrd.img-6.5.0-18-generic
Memtest86+ needs a 16-bit boot, that is not available on EFI, exiting
Warning: os-prober will be executed to detect other bootable partitions.
Its output will be used to detect bootable binaries on them and create new boot entries.
/usr/sbin/grub-probe: error: unknown filesystem.
Found Arch Linux on /dev/sda5
Found Windows Boot Manager on /dev/sdb1@/EFI/Microsoft/Boot/bootmgfw.efi
Adding boot menu entry for UEFI Firmware Settings ...
done
```