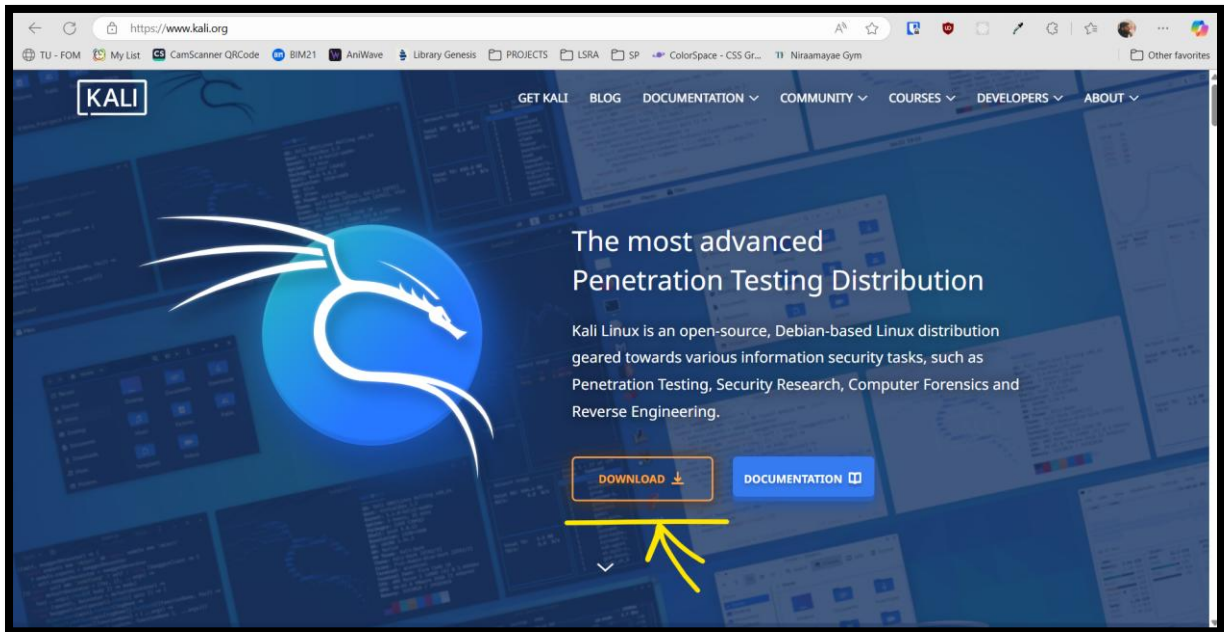


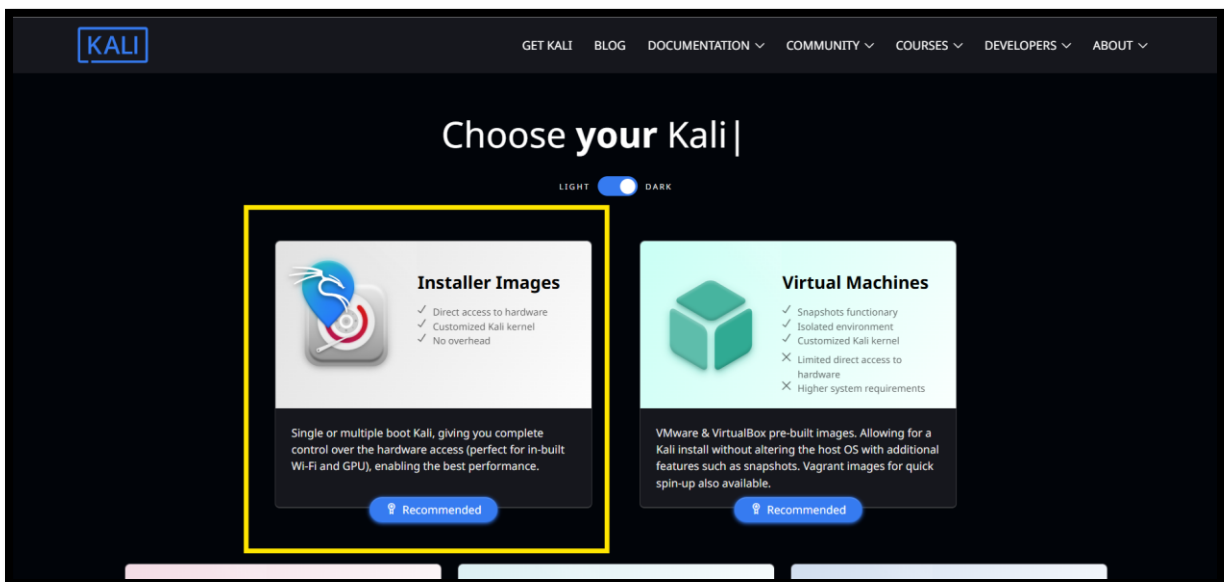
## Lab 3: Download and Install Kali Linux on VirtualBox

### 1. Download Kali Linux

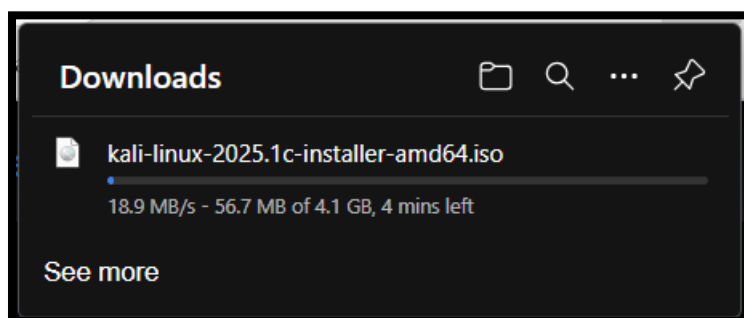
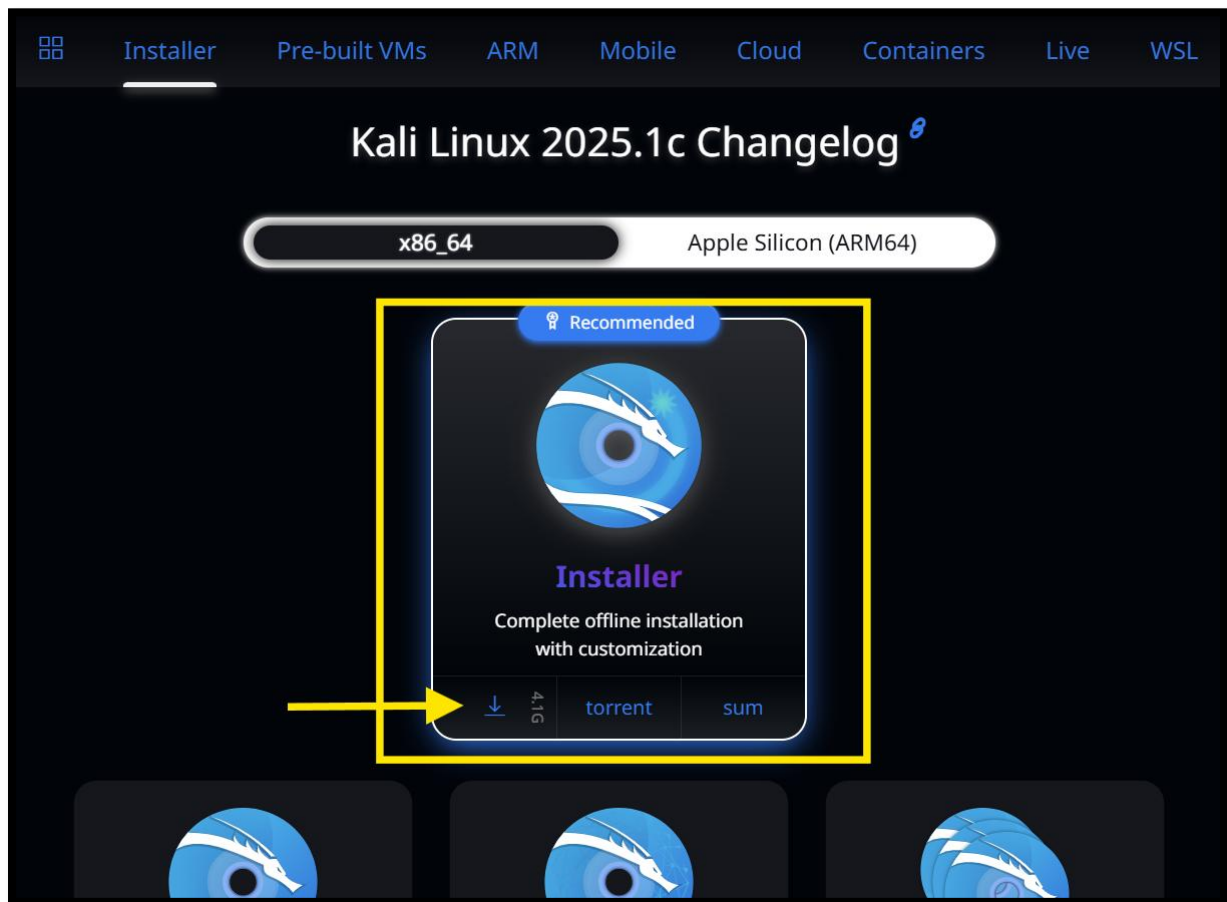
Step 1: Go to Kali Linux website, <https://www.kali.org/> and click on download.



Step 2: Choose the option of Installer Image



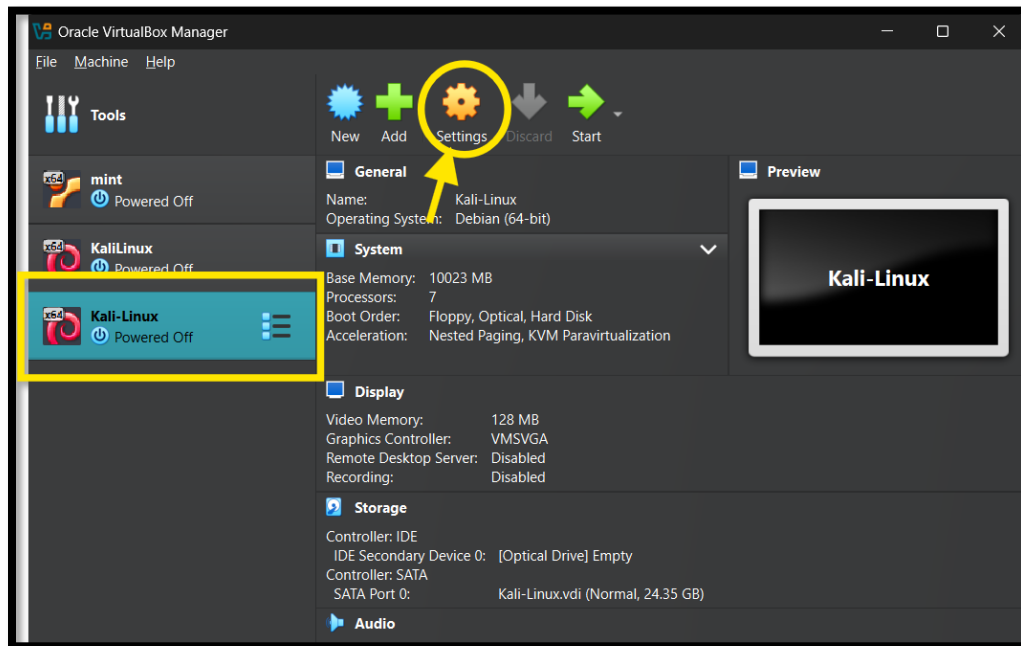
**Step 3: Click on the download button of the latest iso file of Kali and wait for it to complete the download.**



## 2. Setup Virtual Box for Kali Linux

*[Note: The RAM, hardware, and network settings were already completed in Lab 2]*

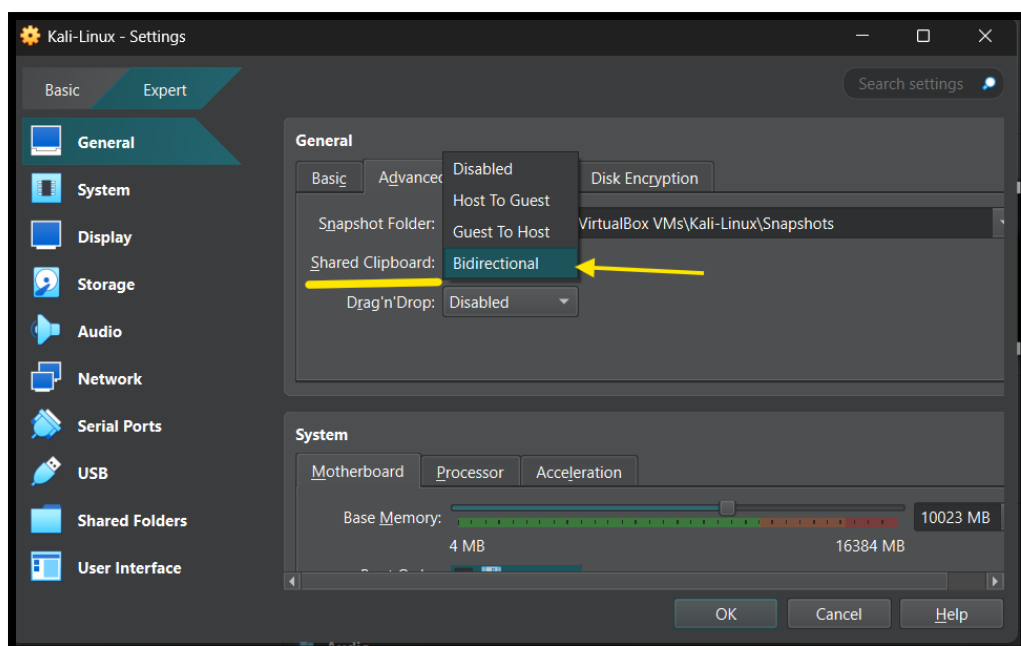
**Step 1: Open the settings of previously set virtual machine Kali-Linux**



**Step 2: Open the General tab, and under Advanced set the shared clipboard to Bidirectional.**

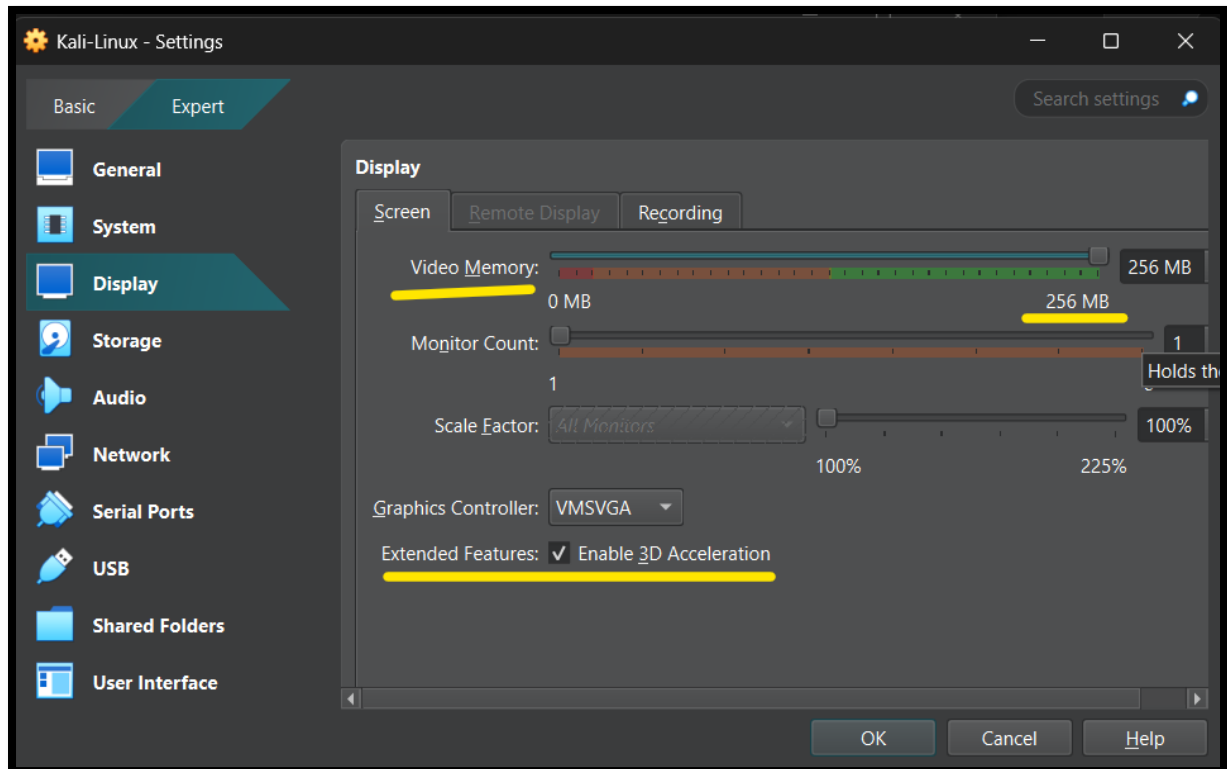
This helps with easy copy and paste of any text between the home OS (windows 11) and Kali.

[Optional: You can also enable drag 'n' drop]



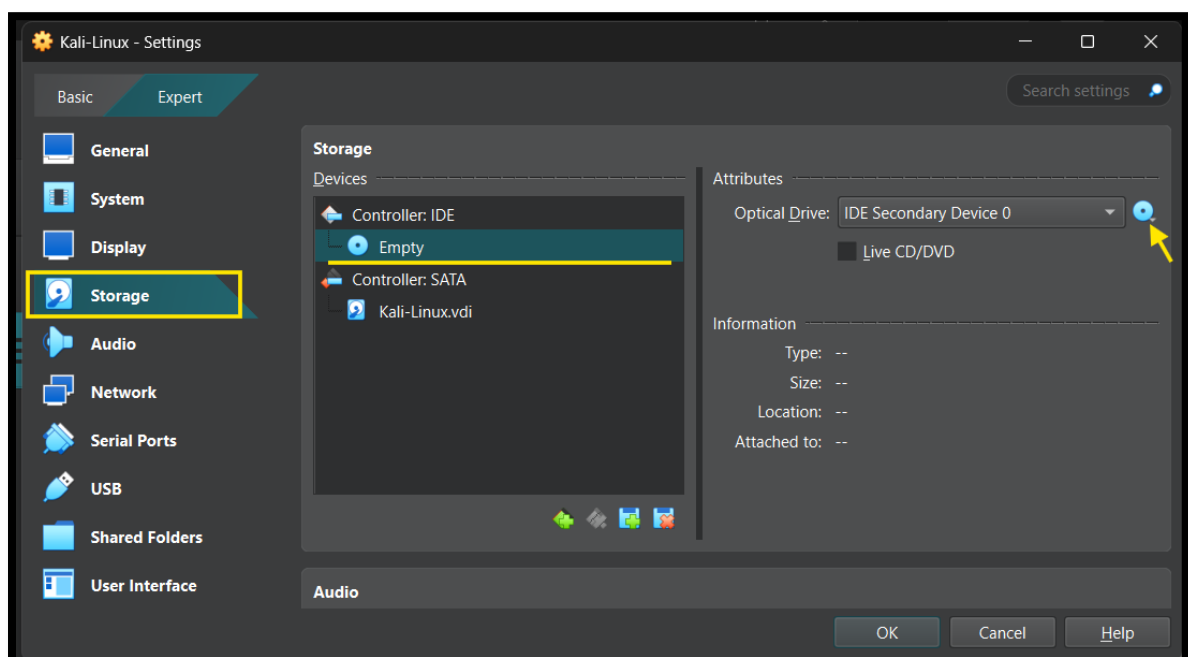
### Step 3: Display Settings

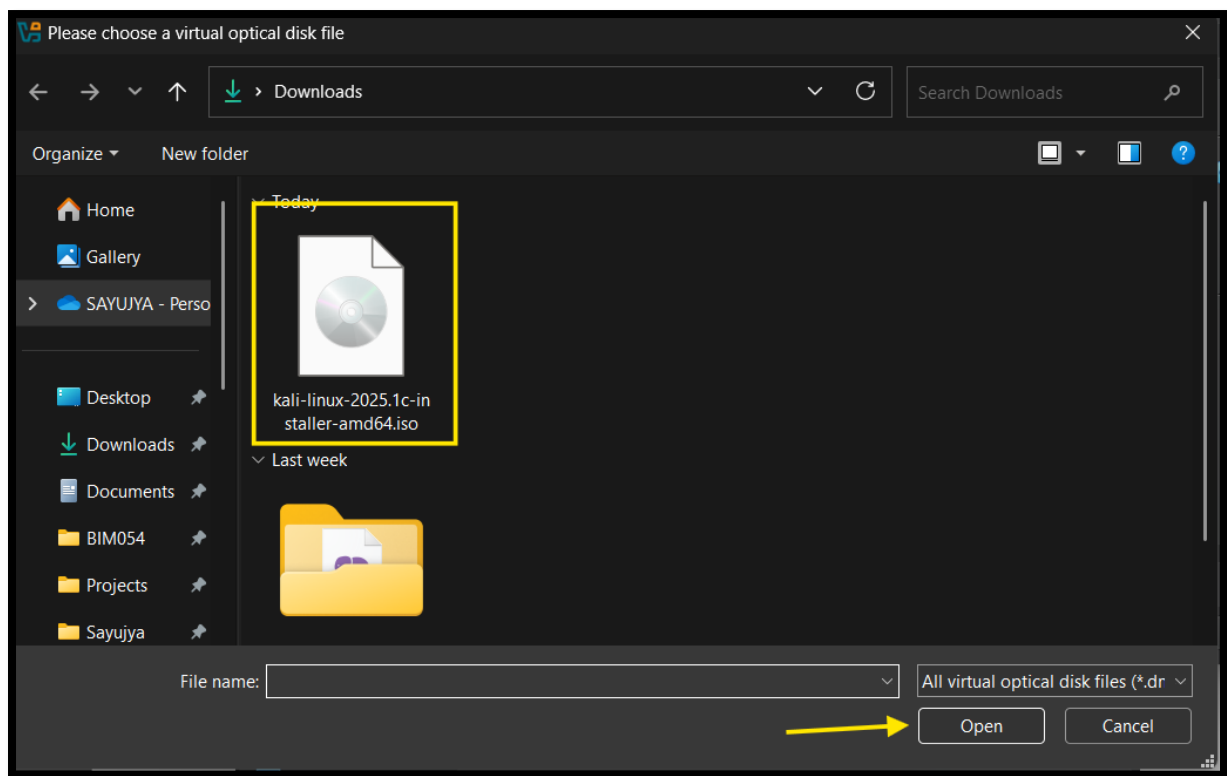
Under the display set video memory to max and enable 3d acceleration if you want to render 3D graphics.



### Step 4: Select ISO File

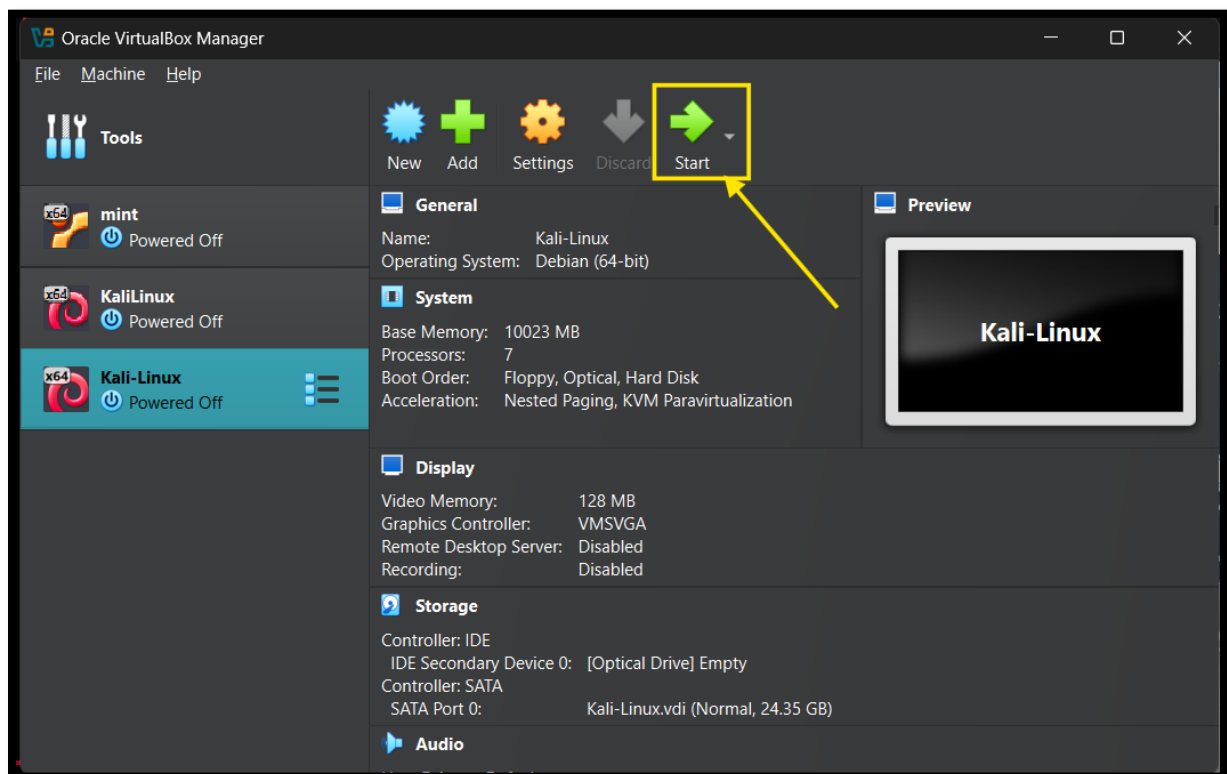
Under the storage settings, click on controller IDE and then Empty and click on the disk icon, then select a disk file and finally select the downloaded kali iso file.





### Step 5: Start

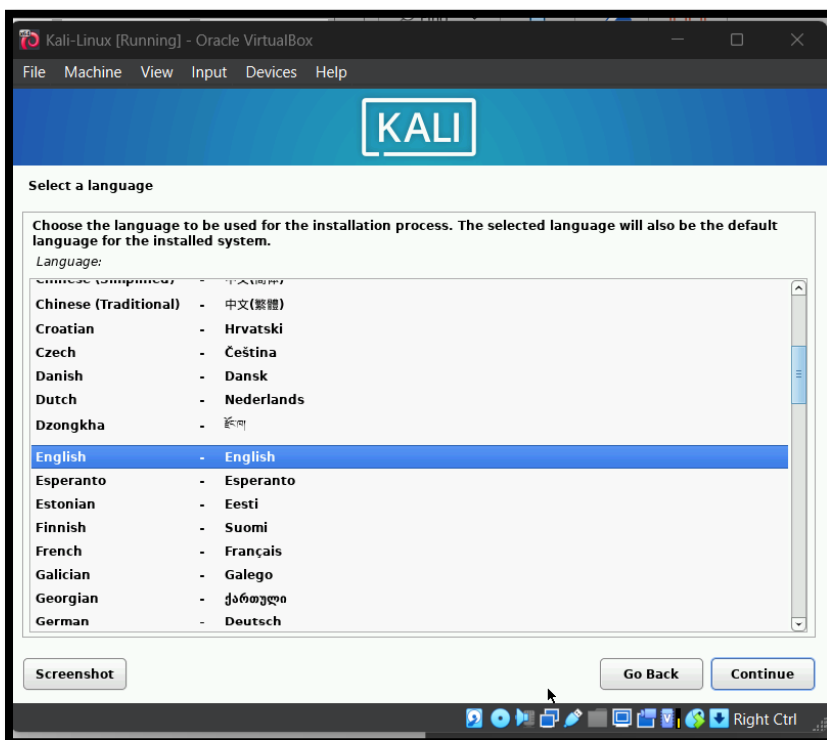
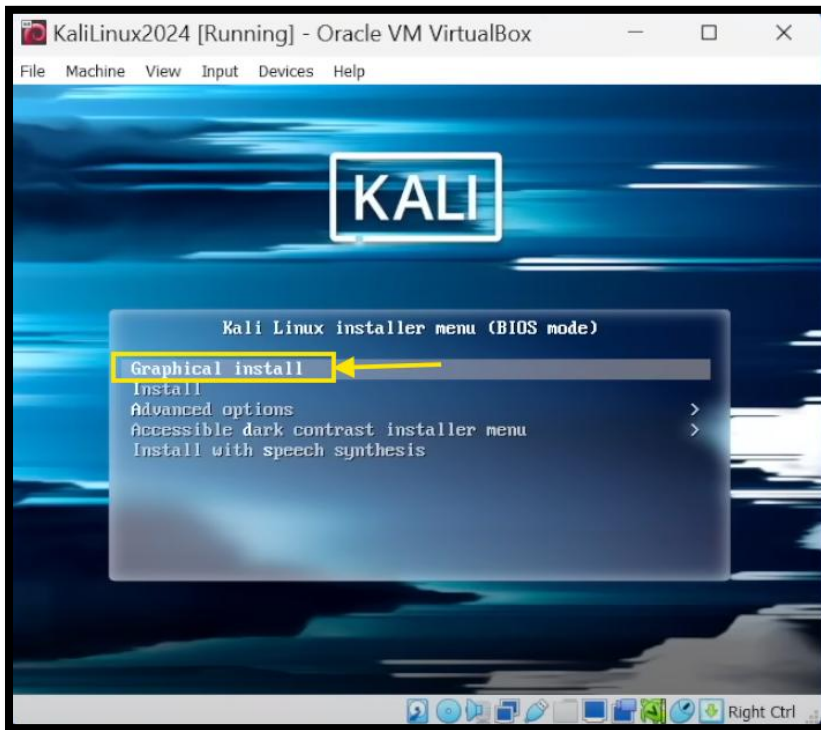
Press ok on the settings menu to close it and click on start.

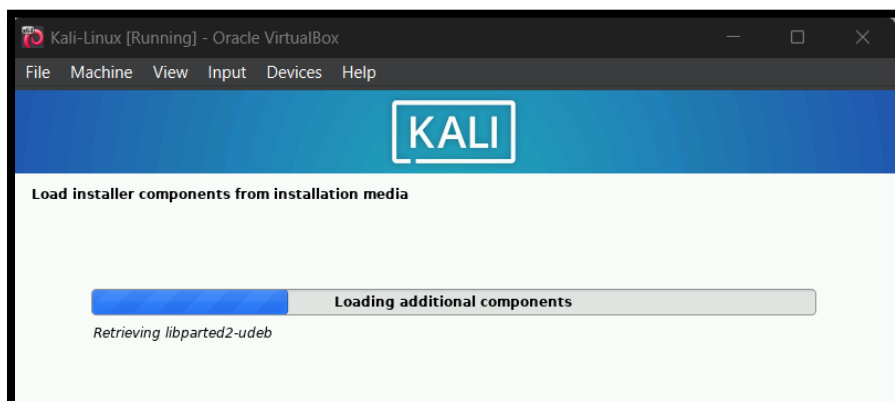
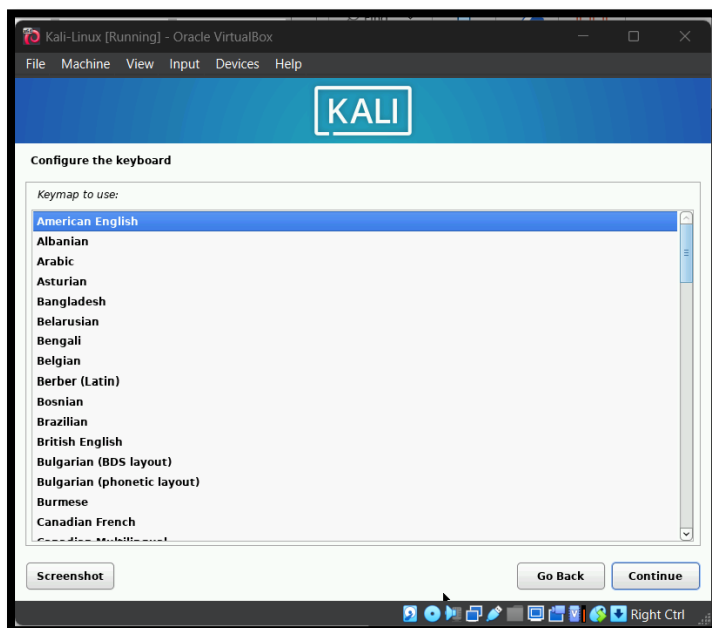
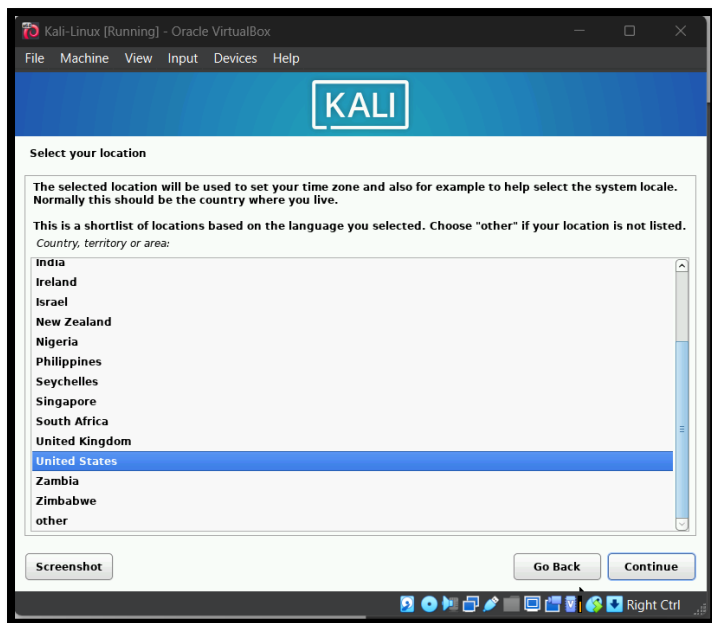


### 3. Installation of Kali Linux

#### Step 1: Follow the installer's basic process

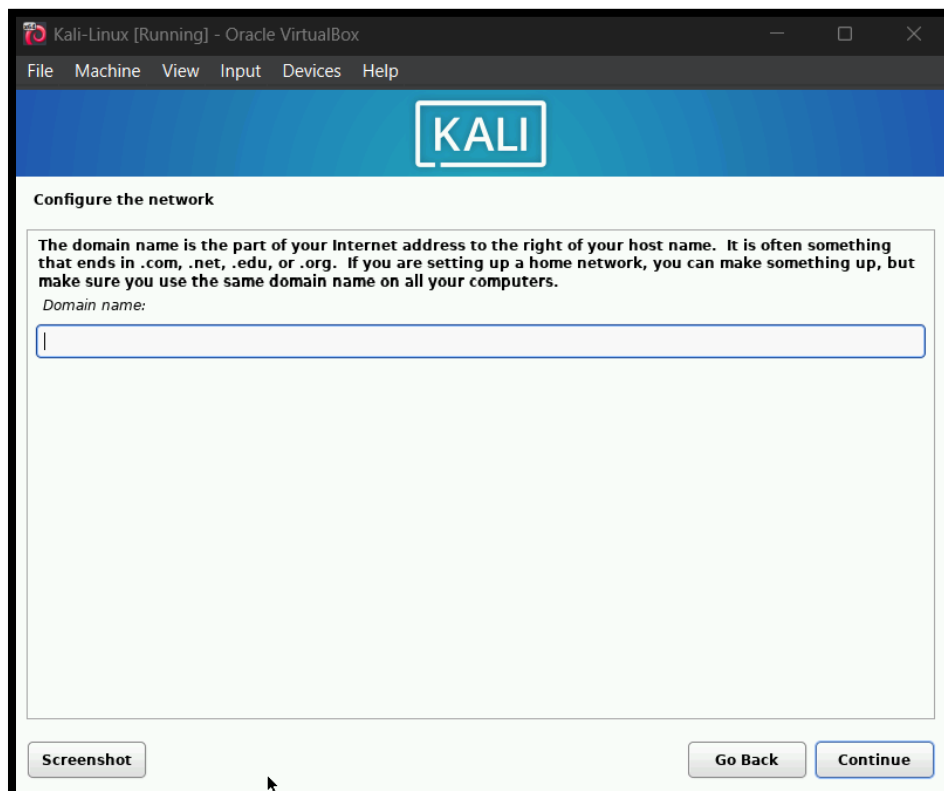
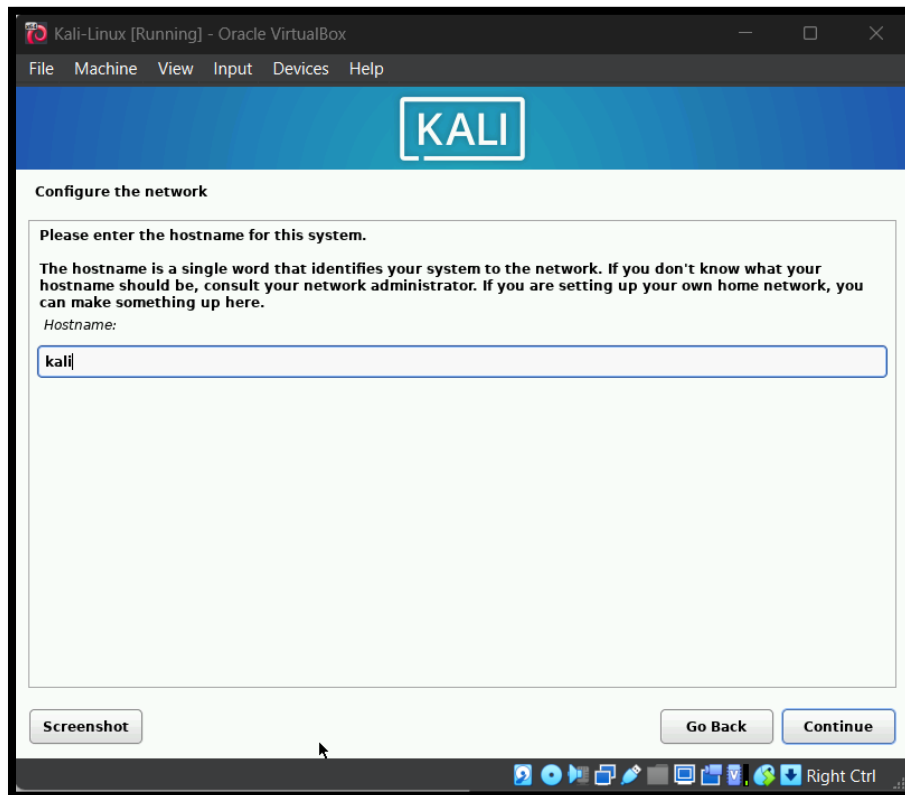
- Choose Graphical Install
- Select Language
- Choose Location
- Choose Keyboard Layout





## Step 2: Network Configuration

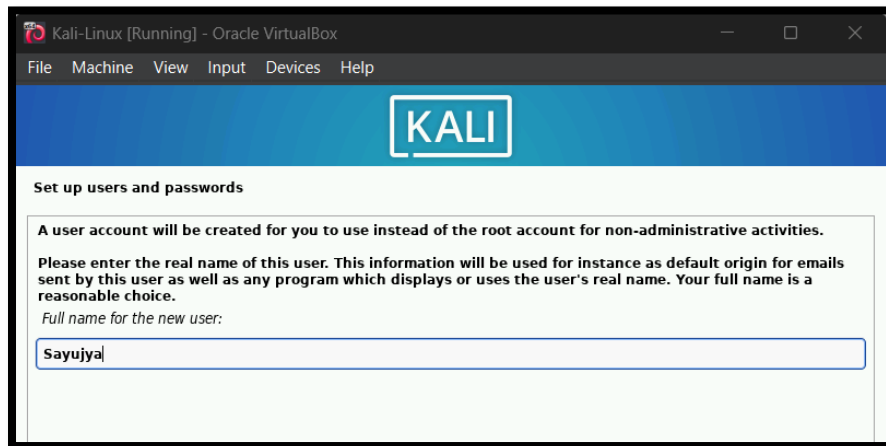
- Allow Kali to automatically set up a DHCP network
- Select a hostname
- Leave the domain name empty





### Step 3: Set up user details

- Enter the full name and press continue
- Enter a username then again press continue
- Set up a new password and click on continue



Kali-Linux [Running] - Oracle VirtualBox

File Machine View Input Devices Help

**KALI**

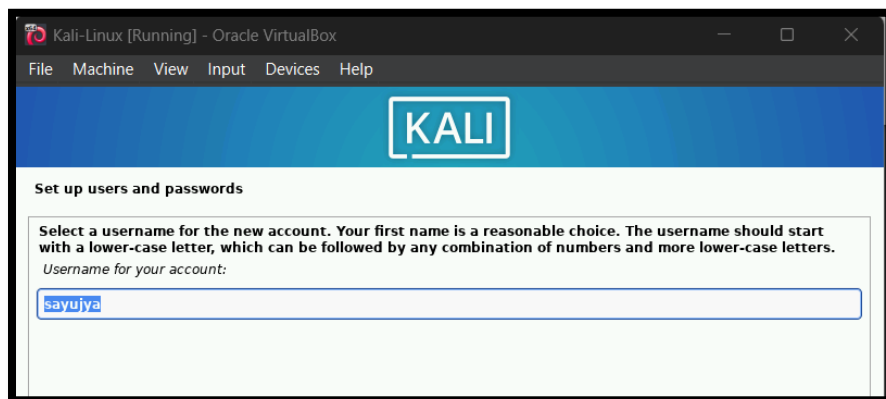
**Set up users and passwords**

A user account will be created for you to use instead of the root account for non-administrative activities.

Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice.

Full name for the new user:

Sayujya



Kali-Linux [Running] - Oracle VirtualBox

File Machine View Input Devices Help

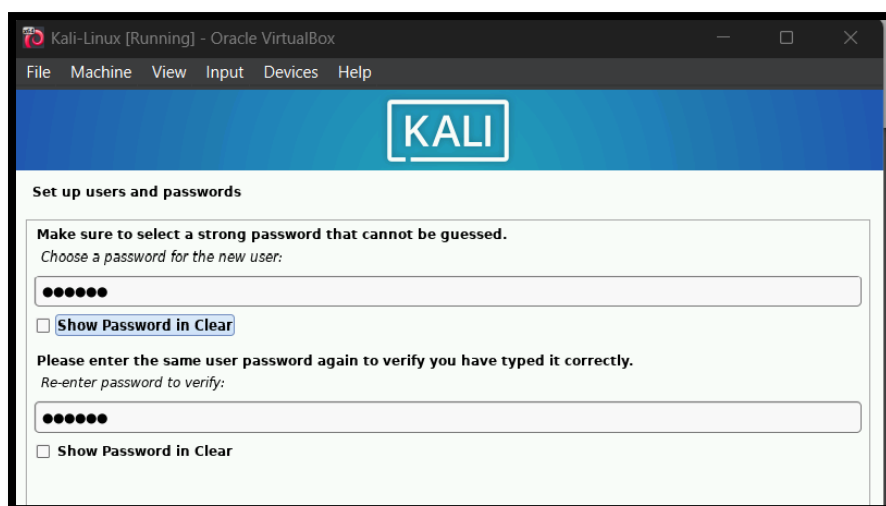
**KALI**

**Set up users and passwords**

Select a username for the new account. Your first name is a reasonable choice. The username should start with a lower-case letter, which can be followed by any combination of numbers and more lower-case letters.

Username for your account:

sayujya



Kali-Linux [Running] - Oracle VirtualBox

File Machine View Input Devices Help

**KALI**

**Set up users and passwords**

Make sure to select a strong password that cannot be guessed.

Choose a password for the new user:

••••••

☐ Show Password in Clear

Please enter the same user password again to verify you have typed it correctly.

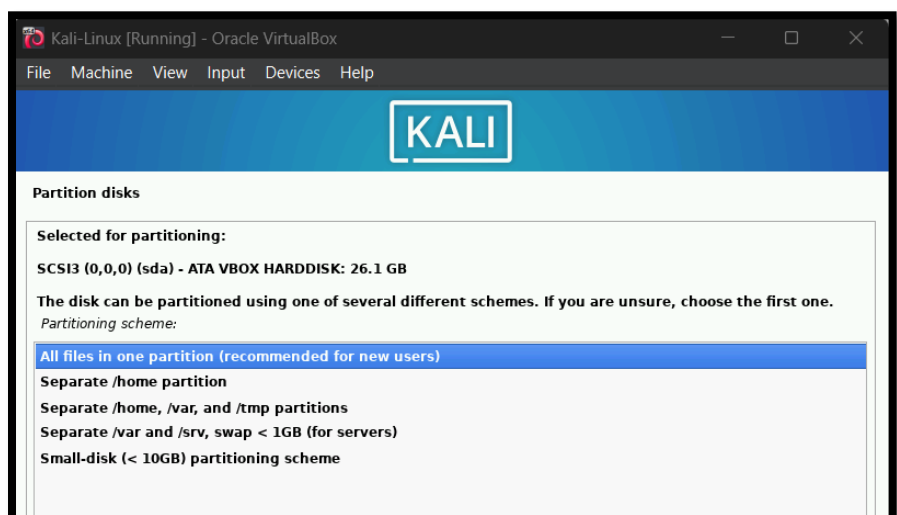
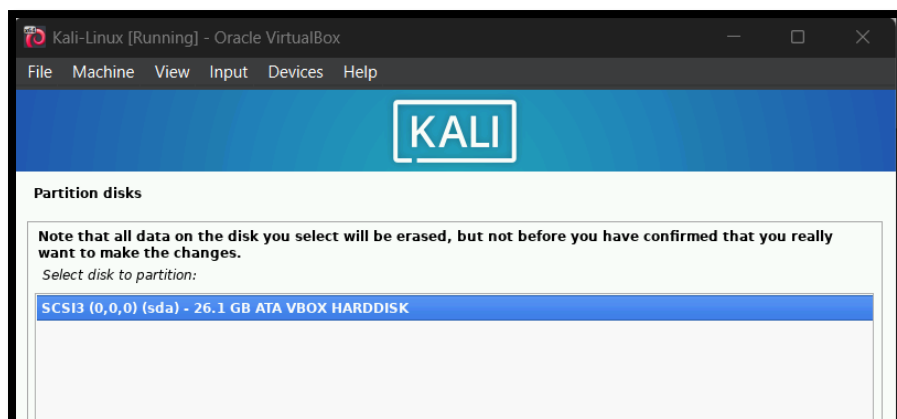
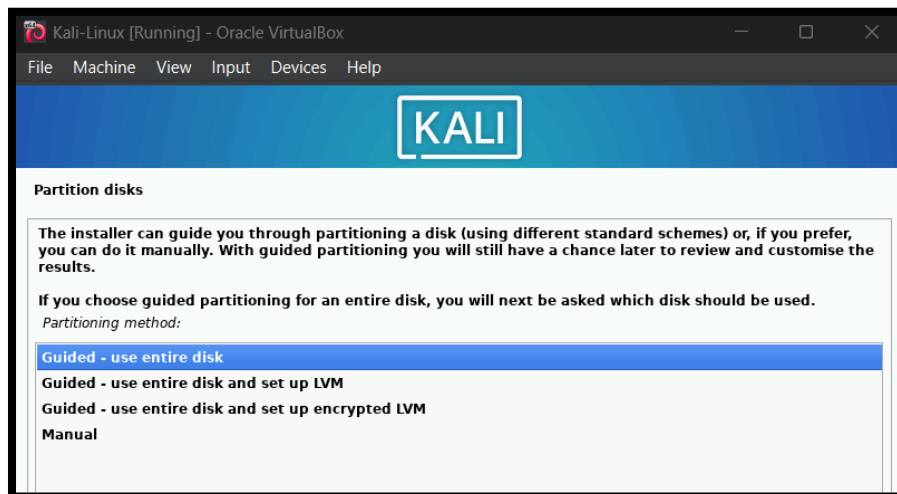
Re-enter password to verify:

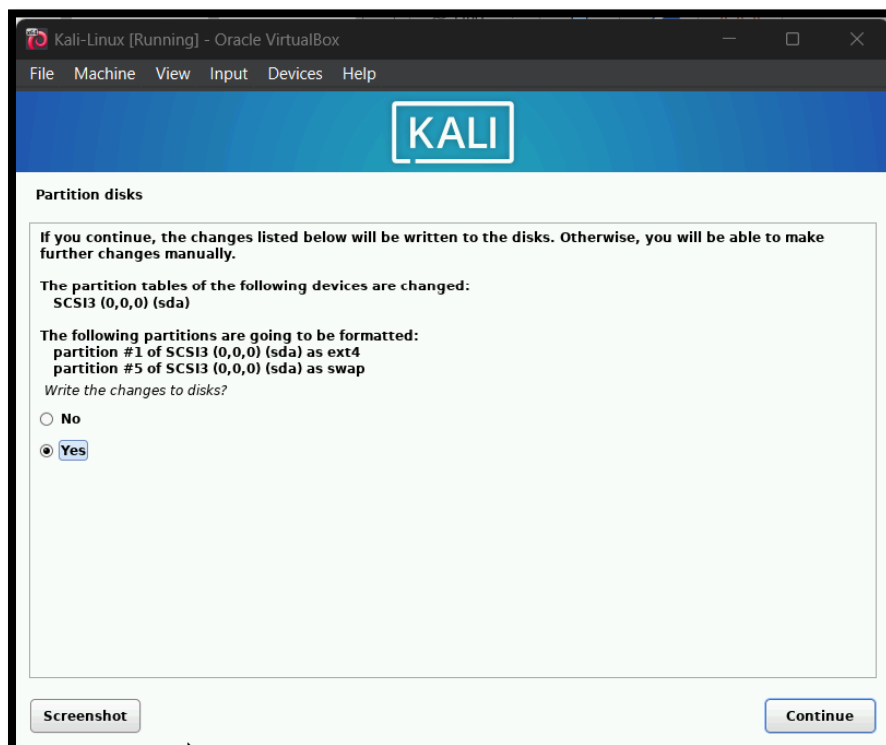
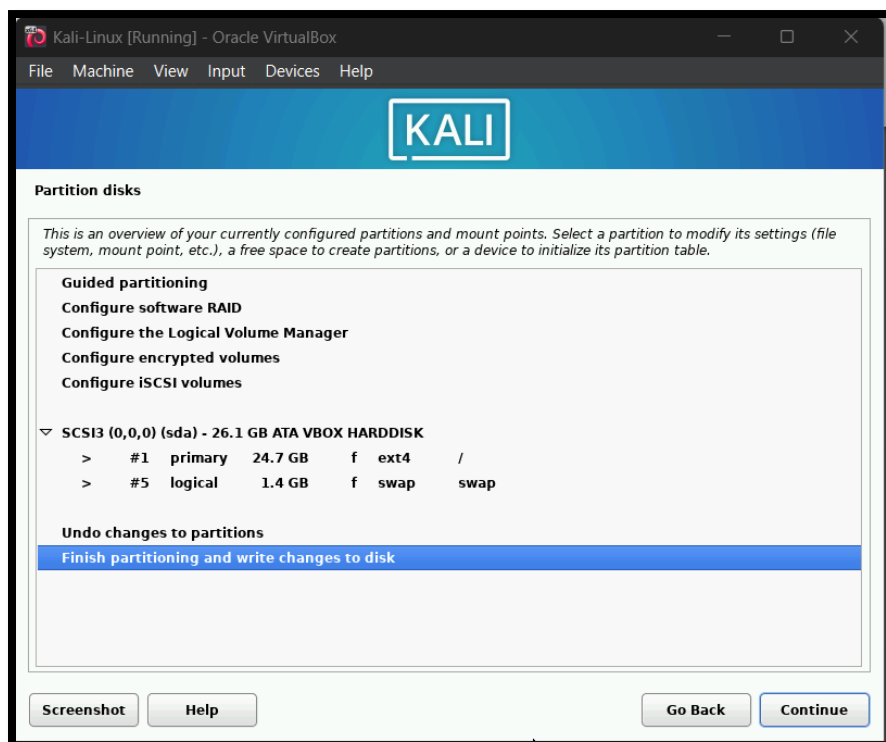
••••••

☐ Show Password in Clear

## Step 4: Disk Partition

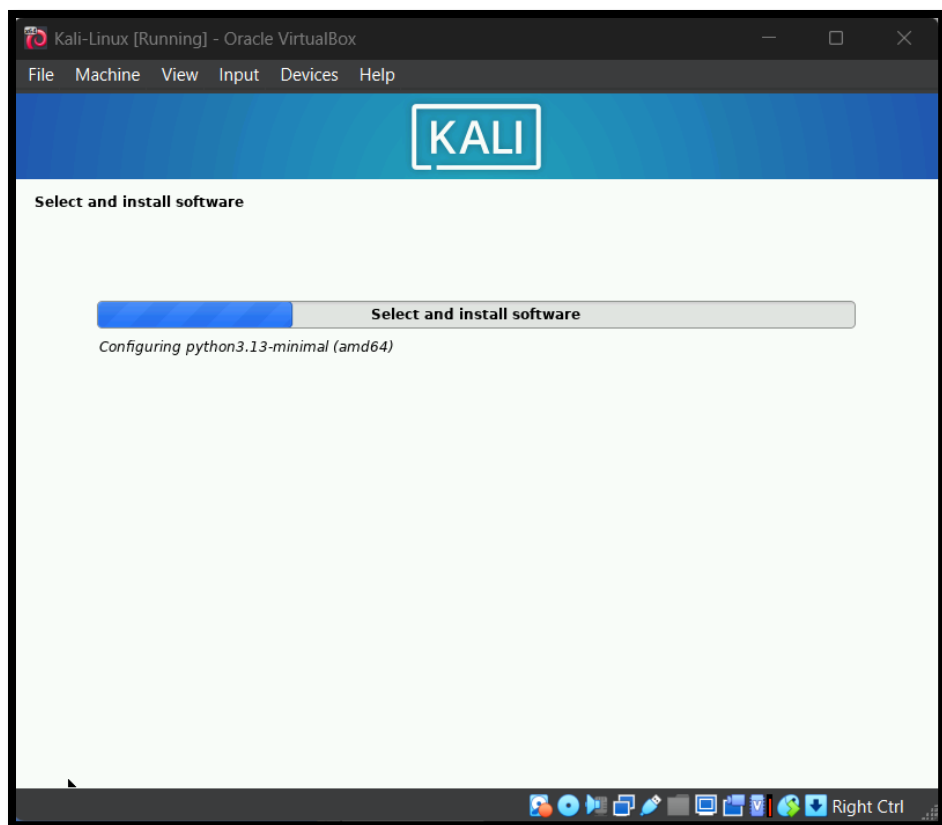
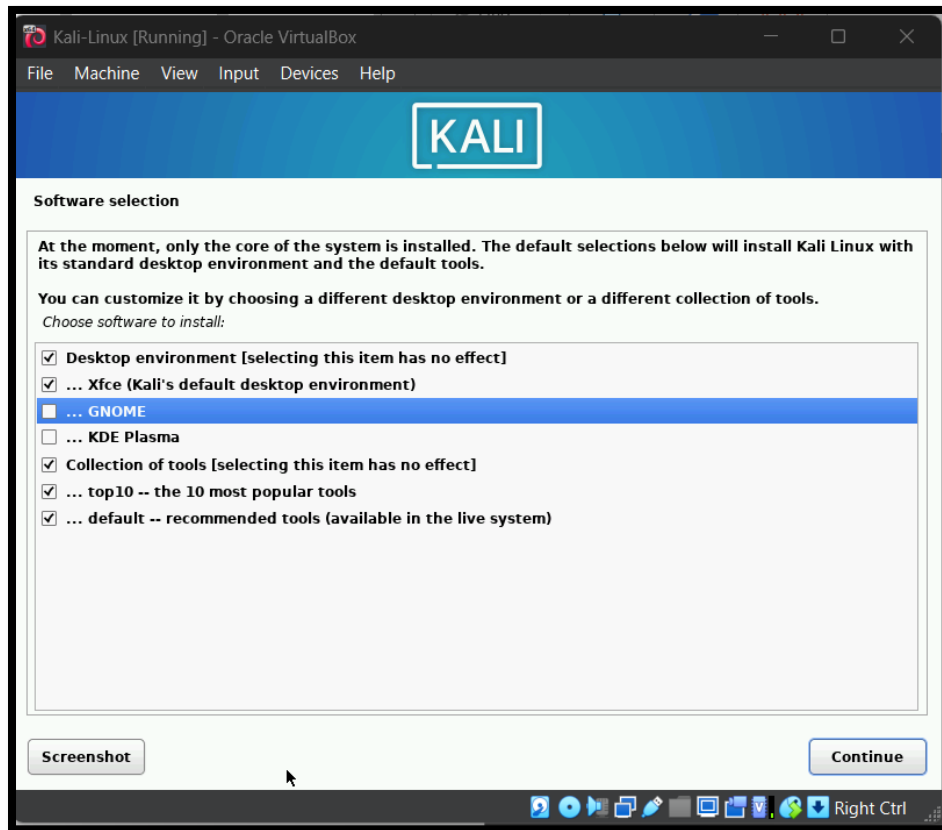
- Select “Guided – use entire disk”
- Select the virtual disk
- Select the partition type you like, I decided to go with all-in-one partition
- Select finish partitioning and then click on “yes”





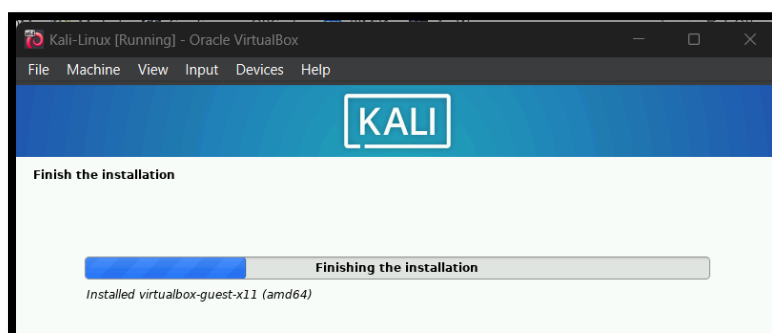
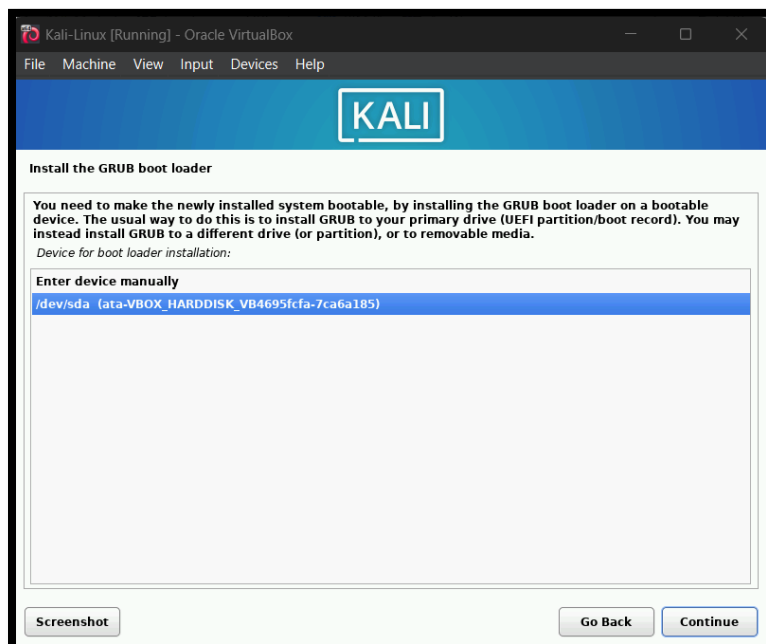
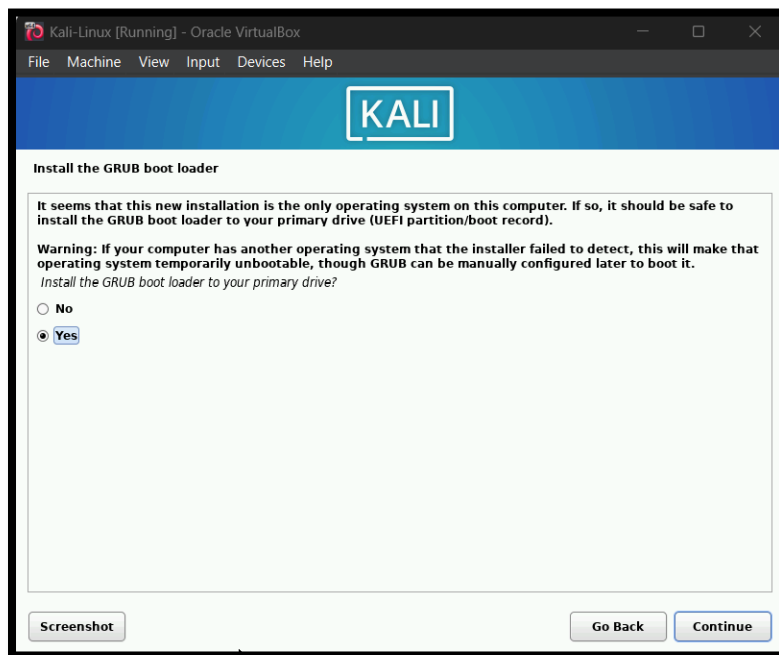
## Step 5: Software Select

You can either choose Xfce or GNOME as the default software, I chose Xfce and then wait for the software to install.



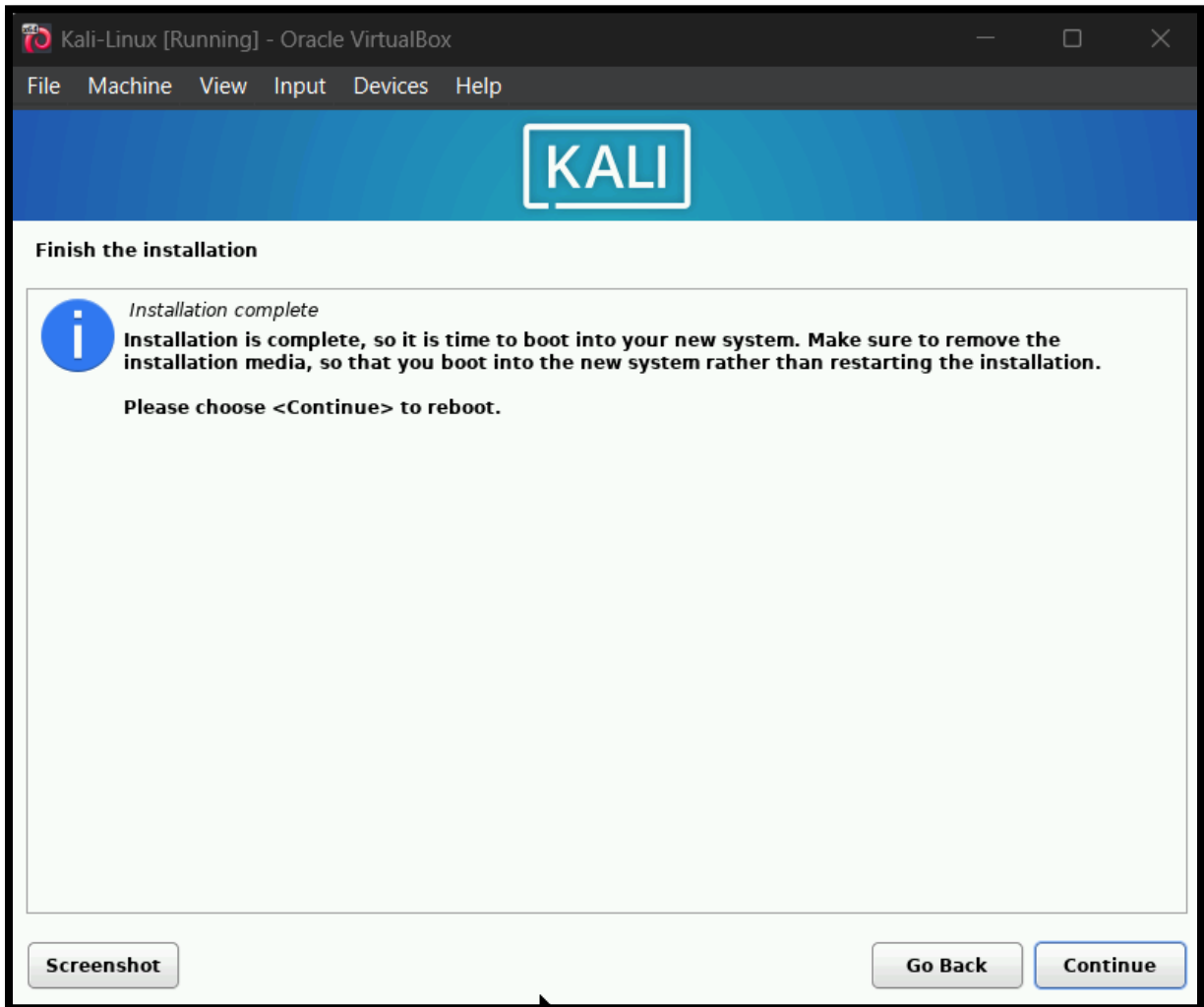
## Step 6: Installing boot loader

- Select yes to install the GRUB boot loader
- Then select the virtual drive and then continue to finish the installation



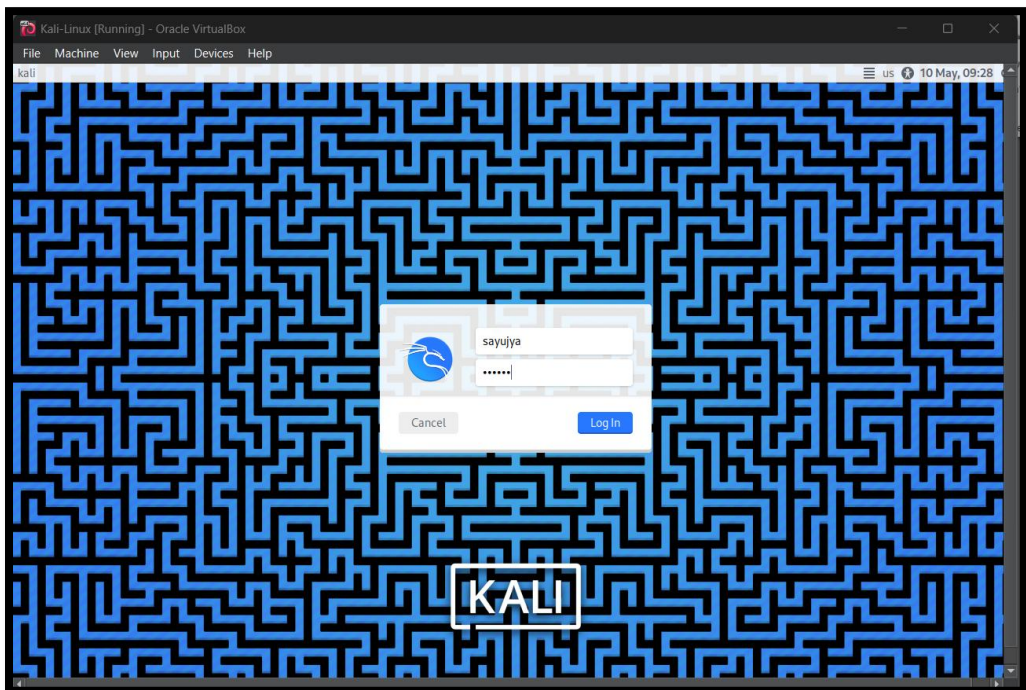
## Step 7: Finish

Click on continue to reboot to finish the installation.



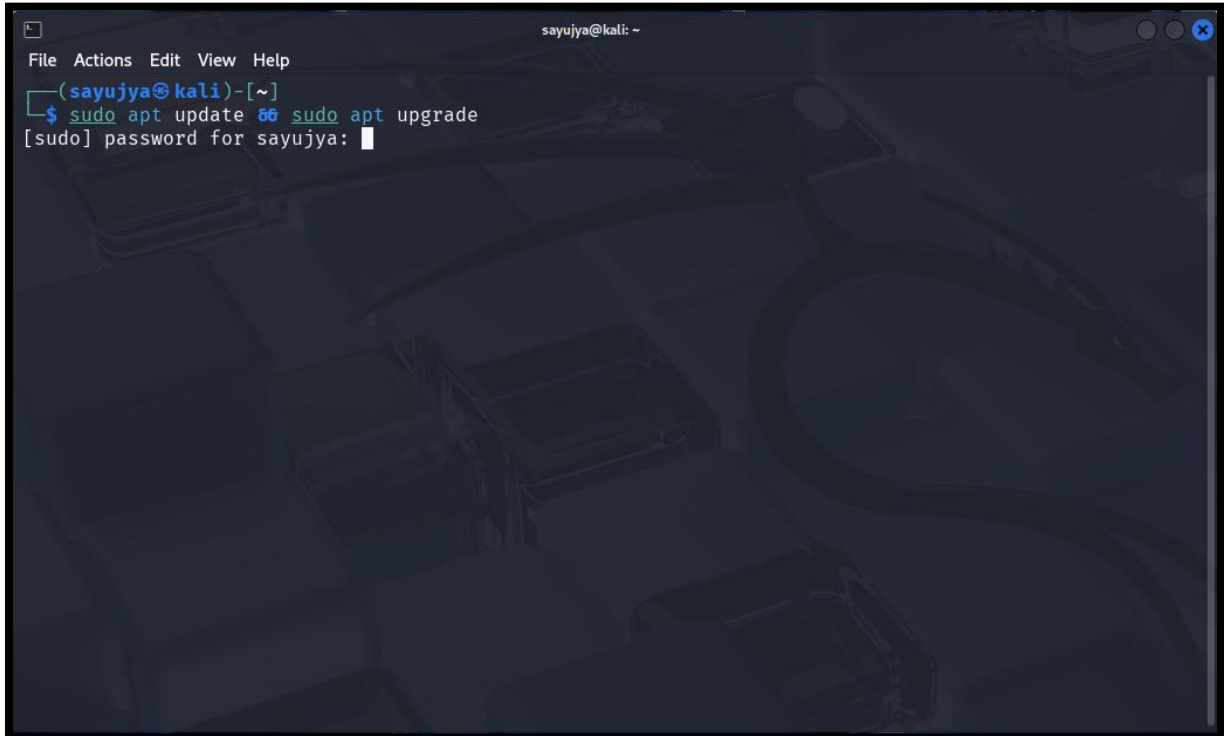
## 4. Set up Kali Linux

### Step 1: Open the Kali Linux and Enter Your Login Details

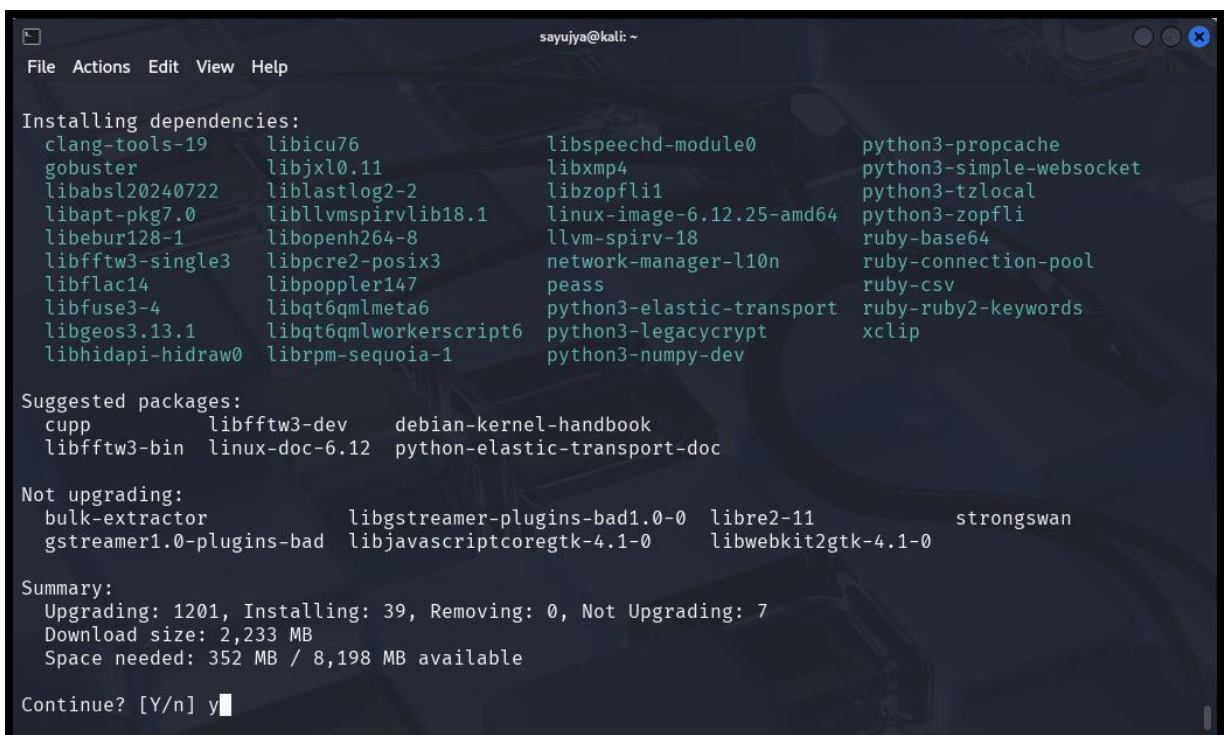


## Step 2: Update

- Enter Win + T to open the terminal
- Run the command `sudo apt update && sudo apt upgrade` to download and install the new versions of local packages
- Enter your password and press enter, then again enter “y” to accept all the dependencies and install them in your kali system.
- Press yes when prompted to restart automatically while upgrading.



```
sayujya@kali: ~  
File Actions Edit View Help  
(sayujya@kali)-[~]  
$ sudo apt update && sudo apt upgrade  
[sudo] password for sayujya: 
```



```
sayujya@kali: ~  
File Actions Edit View Help  
Installing dependencies:  
clang-tools-19      libicu76           libspeechd-module0  python3-procachecache  
gobuster            libjxl0.11         libxmp4             python3-simple-websocket  
libabsl20240722     libblastlog2-2     libzopfli           python3-tzlocal  
libapt-pkg7.0       libllvmspirvlib18.1 linux-image-6.12.25-amd64 python3-zopfli  
libebur128-1        libopenh264-8      llvm-spirv-18       ruby-base64  
libfftw3-single3    libpcre2-posix3    network-manager-l10n ruby-connection-pool  
libflac14           libpoppler147      peass              ruby-csv  
libfuse3-4          libqt6qmlmeta6     python3-elastic-transport ruby-ruby2-keywords  
libgeos3.13.1       libqt6qmlworkerscript6 python3-legacycrypt xclip  
libhidapi-hidraw0   librpm-sequoia-1   python3-numpy-dev  
  
Suggested packages:  
cupp                libfftw3-dev       debian-kernel-handbook  
libfftw3-bin        linux-doc-6.12     python-elastic-transport-doc  
  
Not upgrading:  
bulk-extractor      libgstreamer-plugins-bad1.0-0 libre2-11      strongswan  
gstreamer1.0-plugins-bad libjavascriptcoregtk-4.1-0  libwebkit2gtk-4.1-0  
  
Summary:  
Upgrading: 1201, Installing: 39, Removing: 0, Not Upgrading: 7  
Download size: 2,233 MB  
Space needed: 352 MB / 8,198 MB available  
  
Continue? [Y/n] y
```



```
File Actions Edit View Help
sayujya@kali: ~
Get:526 http://http.kali.org/kali kali-rolling/main amd64 ppp amd64 2.5.2-1+1 [344 kB]
Get:527 http://kali.download/kali kali-rolling/main amd64 network-manager amd64 1.52.0-6 [2,244 kB]
Get:365 http://mirrors.neusoft.edu.cn/kali kali-rolling/main amd64 libdevmapper1.02.1 amd64 2:1.02.2
05-1 [135 kB]
Get:528 http://kali.download/kali kali-rolling/main amd64 libnl-genl-3-200 amd64 3.7.0-2 [18.1 kB]
Get:396 http://http.kali.org/kali kali-rolling/main amd64 libwbclient0 amd64 2:4.22.1+dfsg-1 [67.8 k
B]
Get:529 http://kali.download/kali kali-rolling/main amd64 libnl-route-3-200 amd64 3.7.0-2 [182 kB]
Get:530 http://kali.download/kali kali-rolling/main amd64 libnl-3-200 amd64 3.7.0-2 [59.4 kB]
Get:533 http://kali.download/kali kali-rolling/main amd64 gir1.2-nm-1.0 amd64 1.52.0-6 [84.5 kB]
Get:534 http://kali.download/kali kali-rolling/main amd64 bluelight amd64 2.4.4-1 [1,055 kB]
Get:535 http://kali.download/kali kali-rolling/main amd64 bluez-hcidump amd64 5.82-1 [159 kB]
Get:536 http://kali.download/kali kali-rolling/main amd64 bundler all 2.6.7-2 [88.6 kB]
Get:537 http://kali.download/kali kali-rolling/main amd64 ruby-bundler all 2.6.7-2 [430 kB]
Get:538 http://kali.download/kali kali-rolling/main amd64 ruby-rubygems all 3.6.7-2 [407 kB]
Get:539 http://kali.download/kali kali-rolling/main amd64 burpsuite amd64 2025.2.4-0kali1 [264 MB]
Get:400 http://mirrors.neusoft.edu.cn/kali kali-rolling/main amd64 python3-dnspython all 2.7.0-1 [16
4 kB]
Get:416 http://mirrors.neusoft.edu.cn/kali kali-rolling/main amd64 libnftables1 amd64 1.1.2-1 [332 k
B]
Get:577 http://mirrors.ustc.edu.cn/kali kali-rolling/main amd64 libllvm18 amd64 1:18.1.8-18 [25.0 MB
]
Get:418 http://mirrors.neusoft.edu.cn/kali kali-rolling/main amd64 vim-common all 2:9.1.1230-1 [421
kB]
Get:419 http://mirrors.neusoft.edu.cn/kali kali-rolling/main amd64 vim-tiny amd64 2:9.1.1230-1 [776
kB]
39% [577 libllvm18 14.5 MB/25.0 MB 58%] [575 llvm-18-dev 29.8 MB/41.9 MB 71%] [419 vim-tiny 408 kB/
```

```
File Actions Edit View Help
sayujya@kali: ~
Package configuration

Configuring libc6:amd64

There are services installed on your system which need to be restarted when certain
libraries, such as libpam, libc, and libssl, are upgraded. Since these restarts may cause
interruptions of service for the system, you will normally be prompted on each upgrade for
the list of services you wish to restart. You can choose this option to avoid being
prompted; instead, all necessary restarts will be done for you automatically so you can
avoid being asked questions on each library upgrade.

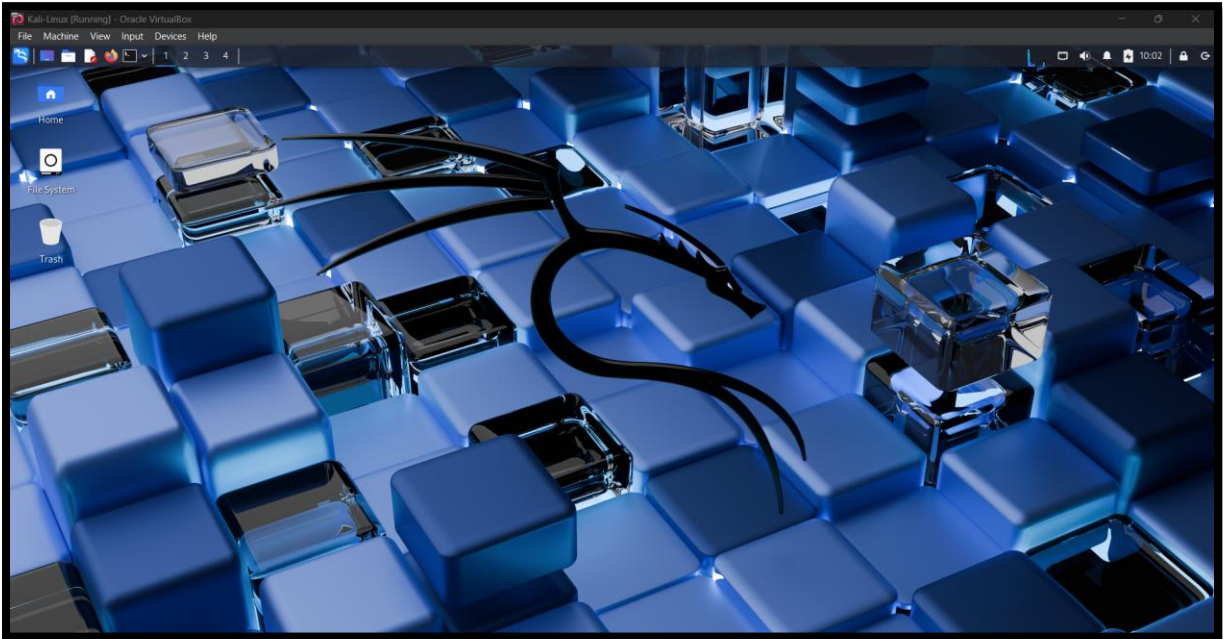
Restart services during package upgrades without asking?

<Yes> <No>
```

### Step 3: Finish

After the reboot the setup is completed.

```
(sayujya@kali)-[~]  
$ sudo reboot now
```



```
sayujya@kali: ~  
File Actions Edit View Help  
(sayujya@kali)-[~]  
$ cat /etc/os-release  
PRETTY_NAME="Kali GNU/Linux Rolling"  
NAME="Kali GNU/Linux"  
VERSION_ID="2025.1"  
VERSION="2025.1"  
VERSION_CODENAME=kali-rolling  
ID=kali  
ID_LIKE=debian  
HOME_URL="https://www.kali.org/"  
SUPPORT_URL="https://forums.kali.org/"  
BUG_REPORT_URL="https://bugs.kali.org/"  
ANSI_COLOR="1;31"  
  
(sayujya@kali)-[~]  
$ whoami  
sayujya
```