

Study Guide

A Linux VM Installation Guide

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Abstract

This document is the study guide for the first week. In week one, we will use need to get a Debian-based Linux such as Ubuntu, Kali linux installed on our computer. Fedora-core linux is also accepted.

Linux operating system is the base operating system we will use to conduct this course in this whole semester. If you encounter any issues, please stay in the classroom and I will help you to resolve your problem.

Note: The screenshots and written part are subject to changes due to frequent software updates and dynamics in IT field.

1. Install Debian-based, Ubuntu 22 LTS, Ubuntu 24 LTS or Kali Linux. This is a required step to begin learning the linux commands and systems. I also released our first homework early and as you can proceed with those questions as references for what to study.

In this part, I am going to give you a little guideline to help you get linux installed and started.

Note: If you are a linux user and already had linux as your main operating system or have linux installed in a VM, then you can ignore this section.

For those of you who are beginners and who did not have linux before, you would need to follow the guide below,

Step 1 Download Linux ISO file

Normally, there are desktop versions and server versions. The following is a desktop version, for instance.



[Download Ubuntu Desktop](#)

Follow this tutorial to **install Ubuntu Desktop** on your laptop or PC. You can also run Ubuntu from a USB to try it without installing.

[Alternative downloads](#)

[Install Ubuntu Desktop](#)

[Virtual machine](#)

[Desktop](#)

And the following one is for server. I would recommend we click the following link to download a server version,

 Ubuntu
<https://ubuntu.com/download/server> ::

[Get Ubuntu Server | Download](#)

Get Ubuntu Server one of three ways; by using Multipass on your desktop, using MAAS to provision machines in your data centre or installing it directly on a ...

In the following page, click the green button and you will download the ISO file.

The screenshot shows the official Ubuntu website at ubuntu.com/download/server. The top navigation bar includes links for Canonical Ubuntu, Products, Use cases, Support, Community, Download Ubuntu, and All Canon. Below the navigation is a secondary menu with tabs for Downloads, Desktop, Server (which is selected), Core, and Cloud. The main heading is "Get Ubuntu Server". Below it, there are three options: Manual installation (selected), Instant VMs, and Automated provisioning. A large section for "Ubuntu 24.04.3 LTS" is displayed, with a brief description about LTS and a "Download 24.04.3 LTS" button. The button is green with white text and indicates a file size of 3GB.

Step 2 Download and Install VM emulator on your machine

For Windows users, please use the Oracle virtualbox,

The screenshot shows the VirtualBox download page at www.virtualbox.org/wiki/Downloads. The page title is "VirtualBox". A progress bar shows a download of "VirtualBox-7.2.0-170228-Win.exe" at 45 left — 96.3 of 167 MB (28.3 MB/sec). Below the progress bar is a "Show all downloads" link. The main content area has a heading "Download VirtualBox". A note states: "The VirtualBox Extension Pack is available for personal and educational use on this page under the PUEL license. The VirtualBox Extension Pack is also available under commercial or enterprise terms. By downloading, you agree to the terms and conditions of the respective license." Two sections are visible: "VirtualBox Platform Packages" and "VirtualBox Extension Pack". The "VirtualBox Platform Packages" section lists packages for Windows hosts, macOS / Intel hosts, macOS / Apple Silicon hosts, Linux distributions, Solaris hosts, and Solaris 11 IPS hosts. The "VirtualBox Extension Pack" section contains a detailed license note and a "See our FAQ for answers to common questions." link.

Follow the default options to complete installation of the virtualbox.

Here I listed a couple youtube videos on how to install virtualbox on windows 11.

<https://www.youtube.com/watch?v=JWdxMZ2ldYA>

<https://www.youtube.com/watch?v=homRENM8KVV>

Step 3 Install Ubuntu with VirtualBox

Please follow the video blow to complete the Ubuntu installation with Virtualbox using the Ubuntu ISO we downloaded earlier.

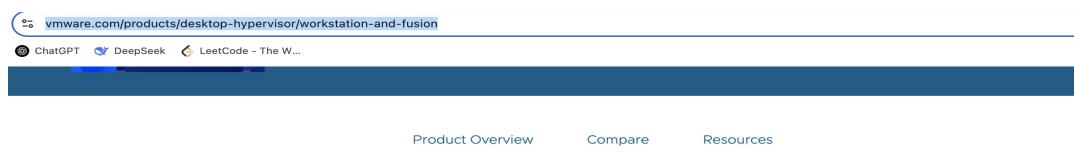
<https://www.youtube.com/watch?v=Hva8lsV2nTk&pp=ygUjaW5zdGFsbCB1YnVudHugaW4gb3JhY2xlIHZpcnR1YWxib3g%3D>

For Mac Users

Please go to the following url to download and install VM fusion. I will provide a little more detailed instructions on the installation of both fusion and linux as Mac and recent M chip (M1-M3) Mac are using non-intel CPUs and the assembly/machine code had a lot of software compatibility issues.

All the instructions in the following section was done in an Intel-Mac Pro, not M chip. From the fusion I downloaded, I think it would support M chip as well but I did not test it.

<https://www.vmware.com/products/desktop-hypervisor/workstation-and-fusion>



Develop and Test for Any Platform With VMware Desktop Hypervisors



VMware Fusion Pro for Mac

The simply powerful VMware Desktop Hypervisor app for Mac. Built-in support for Windows 11 for Arm, 3D Hardware accelerated DirectX 11 graphics, ultra fast file-sharing and more.

[DOWNLOAD NOW >](#)



VMware Workstation Pro for PC

Build and test nearly any app with the world's leading desktop hypervisor app for Windows and Linux.

[DOWNLOAD NOW >](#)

Click the button “Download Now” on the left like above. You would need to register a free account before proceed to download.

Please write down and remember your password, and you will go to login and see the following dashboard. Note, and click on the blue line, there is a link “HERE”,

The screenshot shows a web browser window with the URL support.broadcom.com/group/ecx/downloads. The page is titled "My Downloads". On the left, there is a sidebar with links: "My Dashboard", "My Entitlements", "My Downloads" (which is highlighted in blue), "My Cases", "Trials & Beta", and "Documentation". The main content area has a search bar with dropdowns for "All Divisions" and "Search Product Name", and a "Show Results" button. A message box says "Free Software Downloads available [HERE](#)". Below it, a "No data found" message is displayed.

Then you will see a list of free software,

The screenshot shows a web browser window with the URL support.broadcom.com/group/ecx/productdownloads?subfamily=VMware%20Fusion&freeDownloads=true. The page is titled "VMware Fusion". On the left, there is a sidebar with links: "My Dashboard", "My Entitlements", "My Downloads", "My Cases", "Trials & Beta", "Documentation", and "Security Advisories". The main content area has a "Products" tab selected. A search bar at the top right contains the placeholder "Search by Release". Below, a section for "VMware Fusion 13" is shown, with a note "1 to 1 of 1 records".

Next,

support.broadcom.com/group/ecx/productfiles?subFamily=VMware%20Fusion&displayGroup=VMware%20Fusion%2013&release=13.6.4&os=&servicePk=533271&language=EN&fr... ☆ | ChatGPT | DeepSeek | LeetCode - The W... | All B

← VMware Fusion (for Intel-based and Apple silicon Macs) 13.6.4

Product Downloads Open Source

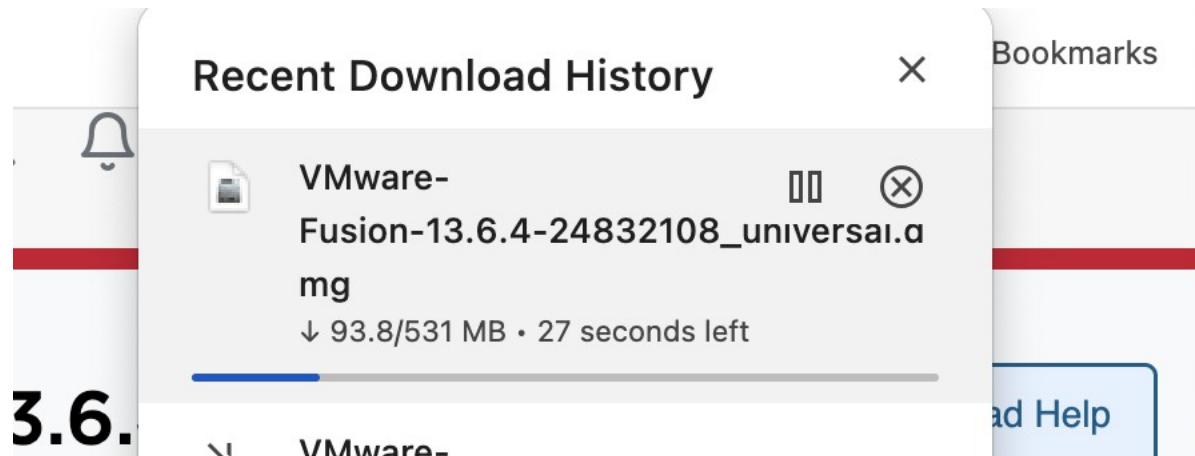
Search 13.6.4 533271 English

I agree to the Terms and Conditions ⓘ Export

VMware Fusion (for Intel-based and Apple silicon Macs) Release 13.6.4 Release Level Info 533271

File Name	Release Date	Last Updated	SHA2	MD5
VMware-Fusion-13.6.4-24832108_universal.dmg (530.91 MB) Build Number: 24832108	Jul 15, 2025	Jul 09, 2025	a43fd031165896bc1b7ecc61eb07b377bfc01 b014c9111b08e18a6a1af121191	e8c0ede51546f0c2e1f13f1f3fd0992a

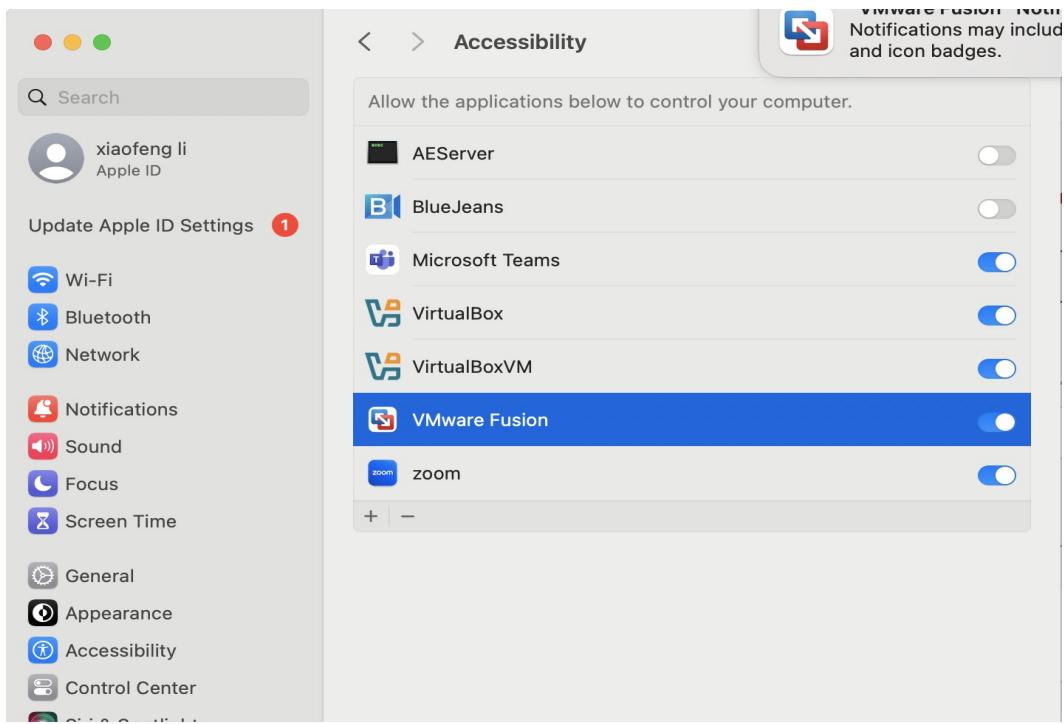
You need to click on the “Terms and conditions”, and then check the box and then follow downloading,



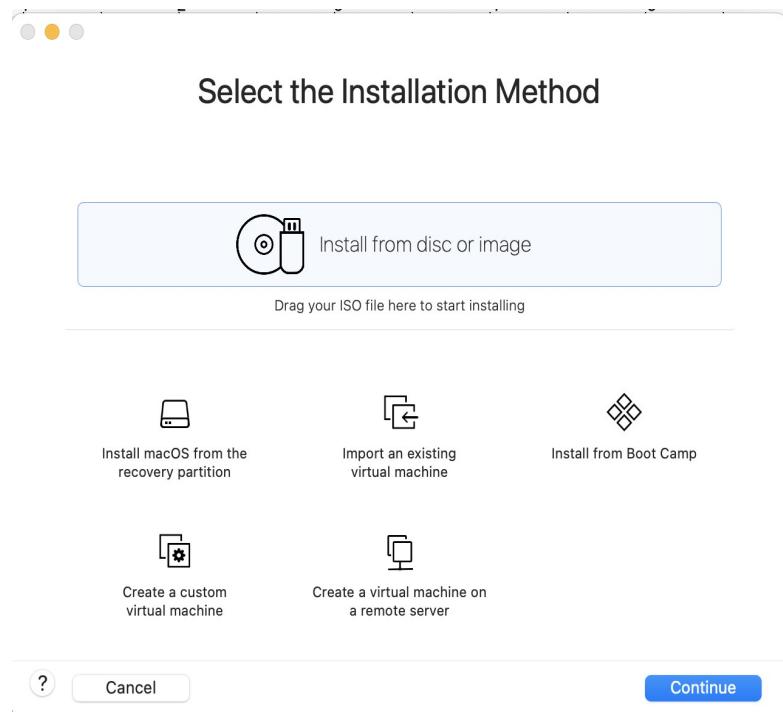
Install it in Mac by double clicking the dmg you just downloaded,

Name	Size	Kind	Date Added
VMware-Fusion-13.6.4-24832108_universal.dmg	556.7 MB	Disk Image	Today at 5:25 PM
ch02.ppt	3.3 GB	ISO Disk Image	Yesterday at 5:32 PM
ch01.ppt	1.6 MB	Microso...cument	Sep 4, 2025 at 1:59 PM
	2.8 MB	Microso...cument	Sep 4, 2025 at 1:59 PM

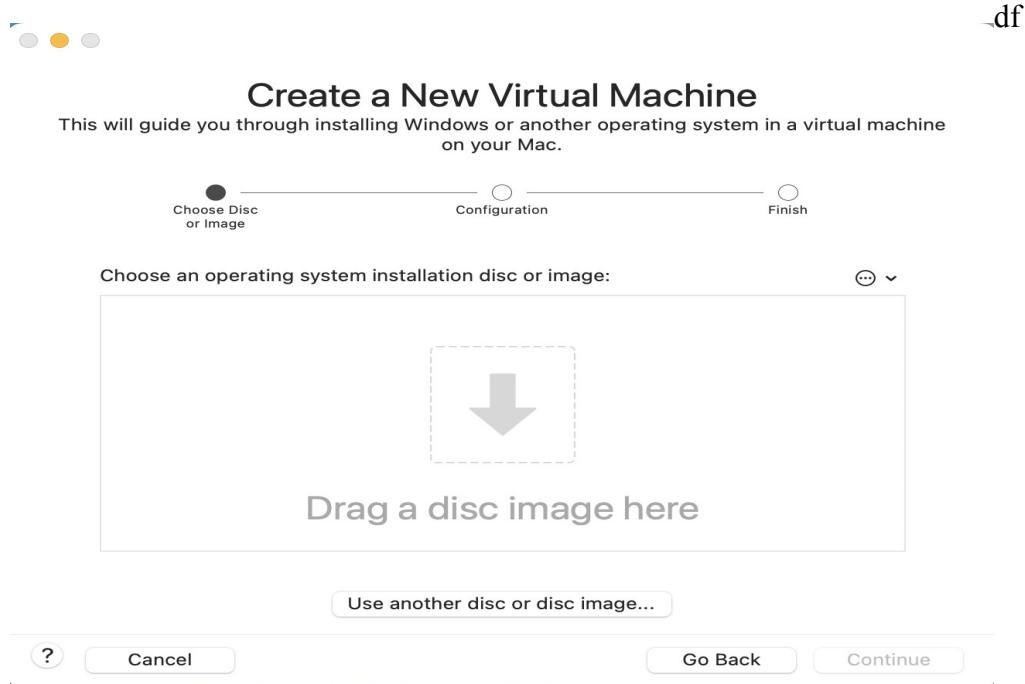
Follow the Mac installation and turned on in security configuration in Mac,



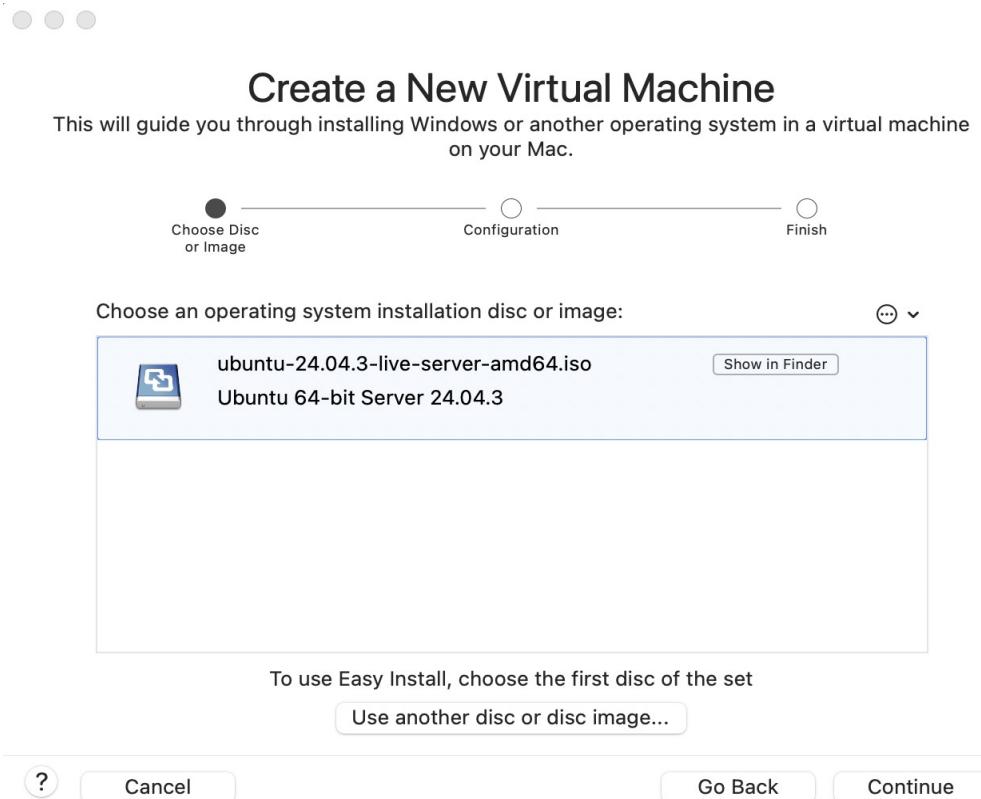
Now the VM Fusion looks like the following,



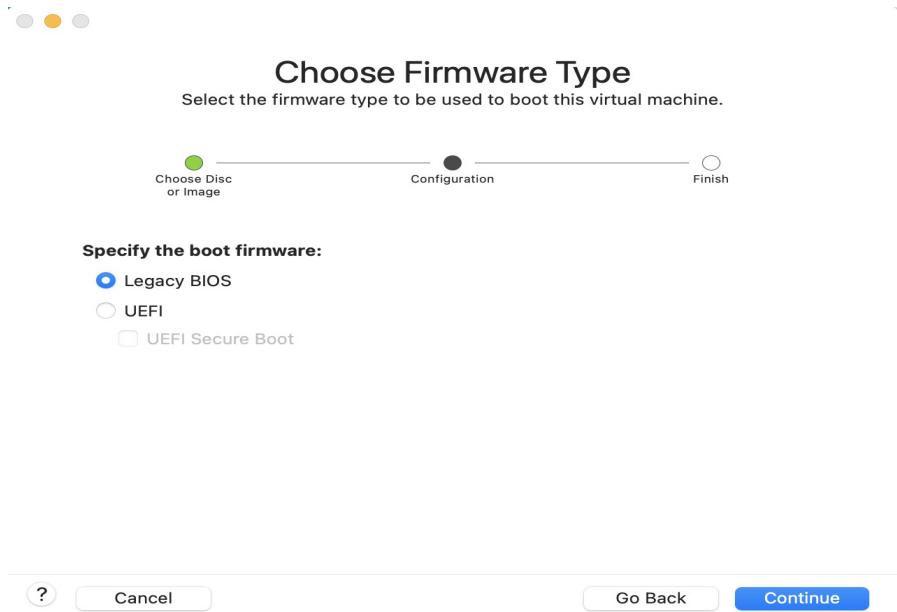
Click the disk icon above, and you will see the next screen in the following image,



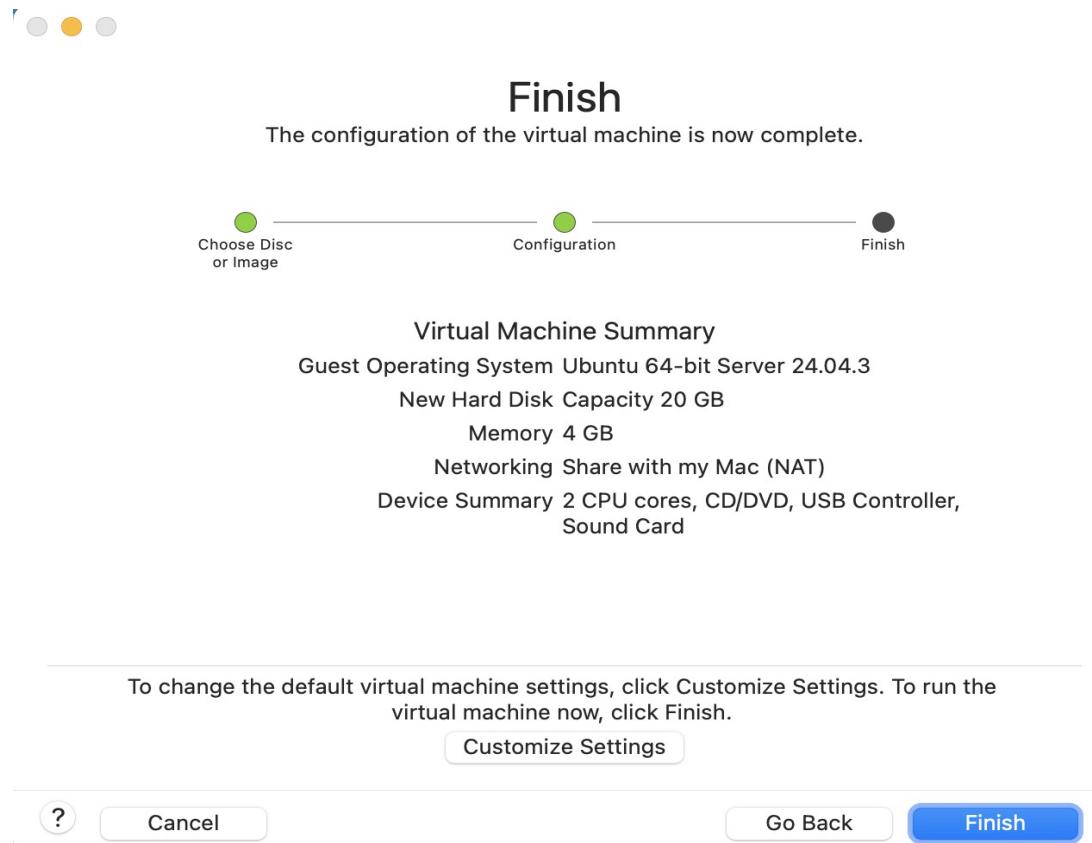
And drag an ISO you downloaded, in my case, I had a ubuntu 24 server ISO,



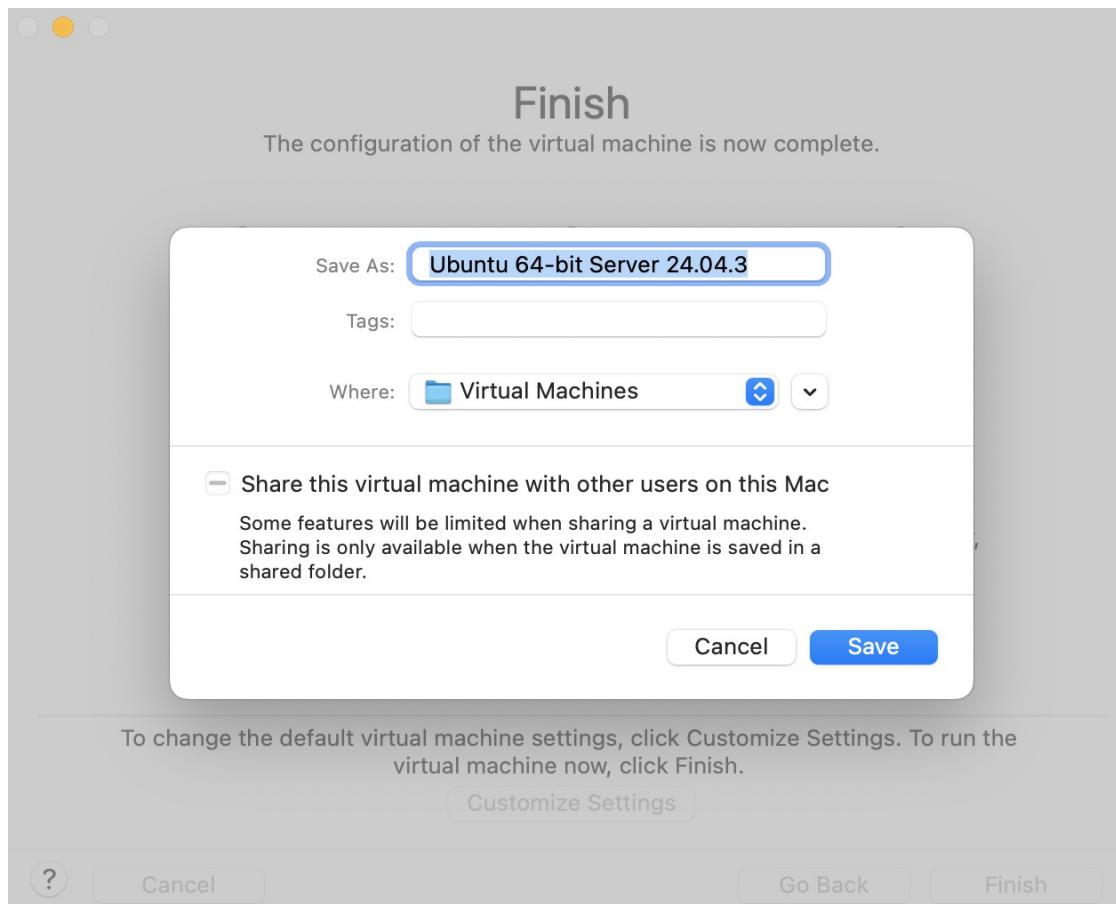
In the following screen, keep the default option selected, and proceed with “continue”,



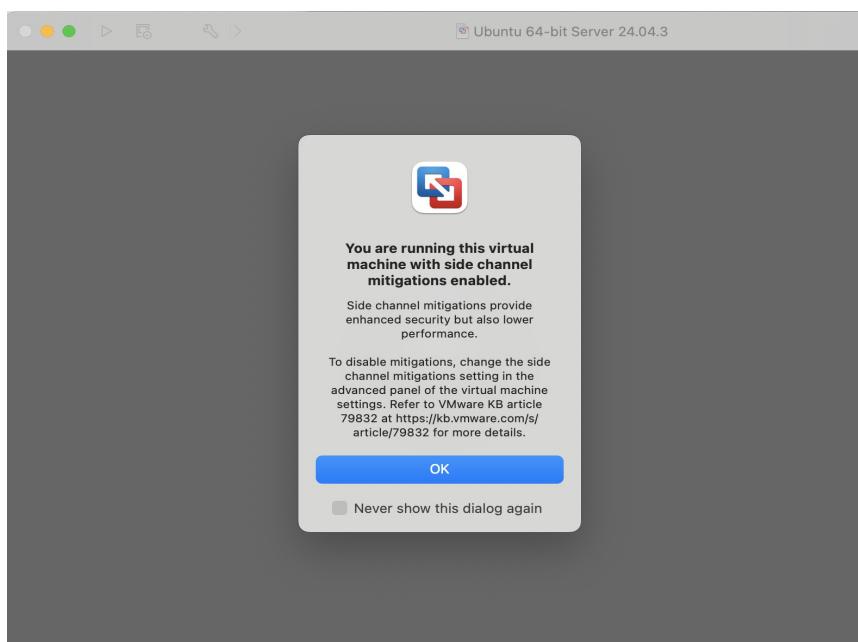
Next you will see the screen,



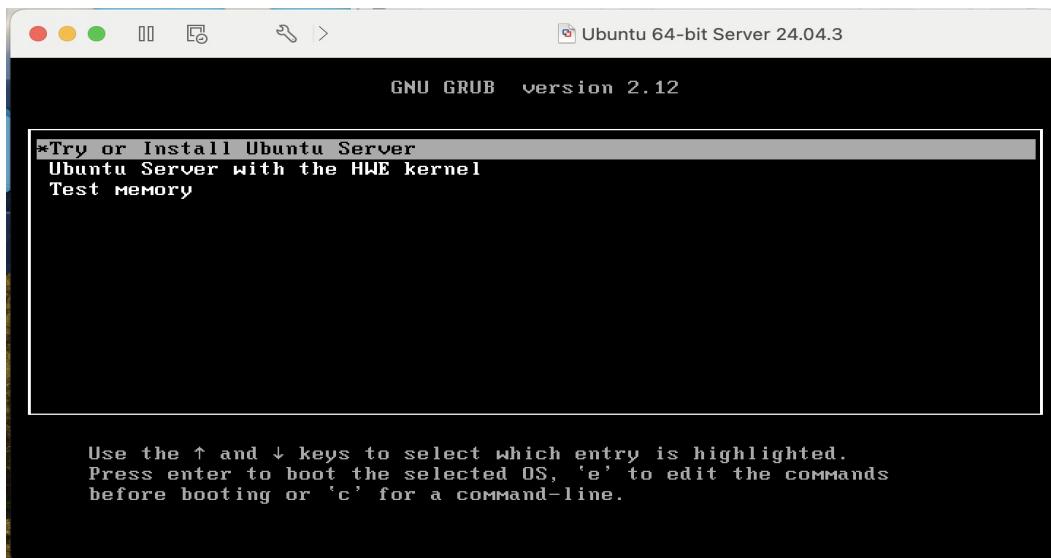
Click “Finish” above, and you will see the image below. This prompts you to save the image to a directory. Note that an VM image file is what we just created, not the Linux installer ISO.



After that, you will see it automatically starts like the following,



Next, you will see a play button, and it comes to the following screen,

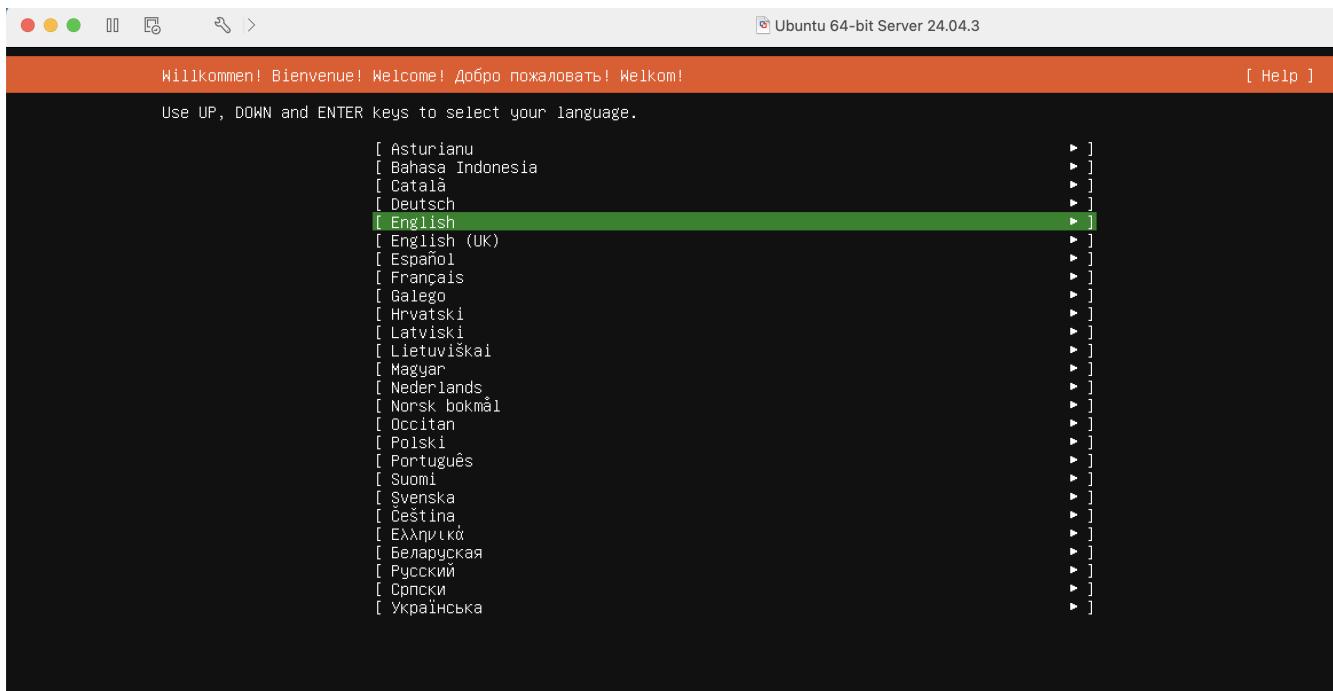


Now up to here, we just finish create the vm image, and we boot/launch the vm image, it is as if we put the Linux installation DVD disk into the DVD ROM, and the machine boots from it. It tells us that, from now on, we are firstly installing the real linux operating system into the VM image file and save the states after all of this will complete. Then by then, your VM image will become a bootable linux server OS.

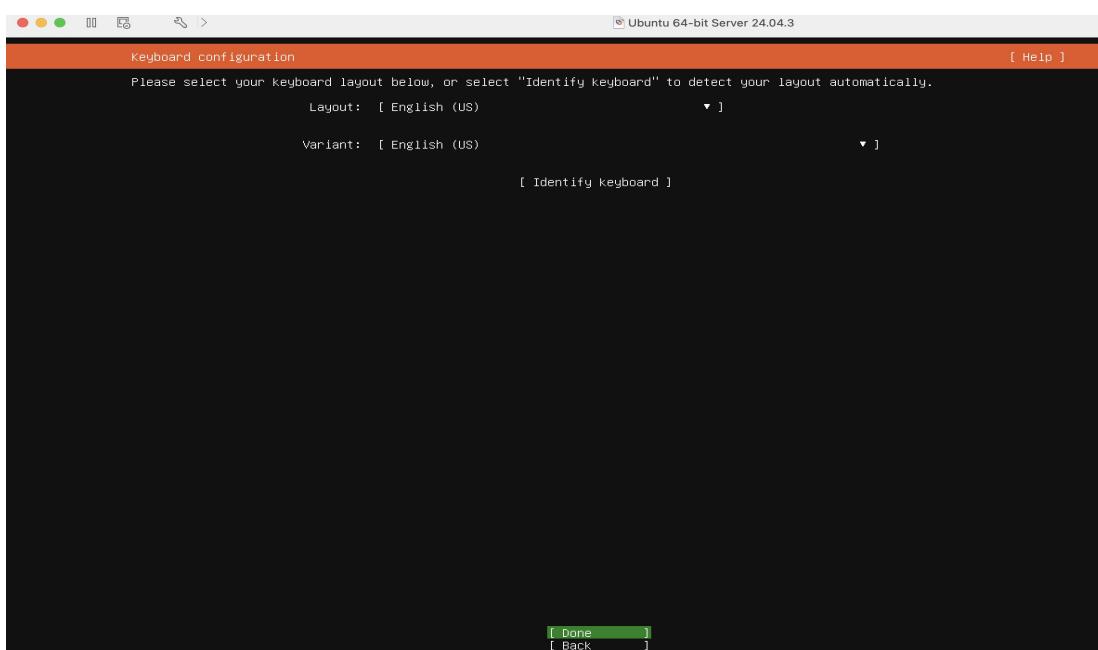
Choose the first option, and hit enter.

A screenshot of a terminal window titled "Ubuntu 64-bit Server 24.04.3". The window shows a series of log messages from the boot process. The messages include: "[9.658985] systemd[1]: Starting multipathd.service - Device-Mapper Multipath Device Controller..."; "[9.663931] systemd[1]: systemd-hwdb-update.service - Rebuild Hardware Database was skipped because no trigger condition checks were met."; "[9.666868] systemd[1]: systemd-pstore.service - Platform Persistent Storage Archival was skipped because of an unmet condition check (ConditionDirectoryNotEmpty=/sys/fs/pstore)."; "[9.676437] systemd[1]: Starting systemd-random-seed.service - Load/Save OS Random Seed..."; "[9.683526] systemd[1]: systemd-repart.service - Repartition Root Disk was skipped because no trigger condition checks were met."; "[9.693052] systemd[1]: Starting systemd-sysctl.service - Apply Kernel Variables..."; "[9.716953] systemd[1]: Starting systemd-tmpfiles-setup-dev-early.service - Create Static Device Nodes in /dev gracefully..."; "[9.726032] systemd[1]: systemd-tpm2-setup.service - TPM2 SRK Setup was skipped because of an unmet condition check (ConditionSecurity=measured-uki)."; "[9.729140] systemd[1]: Started systemd-journald.service - Journal Service."; "[OK] Started systemd-journald.service - Journal Service."; "[OK] Finished lvm2-monitor.service - Monitoring dm-eventd or progress polling."; "[OK]".

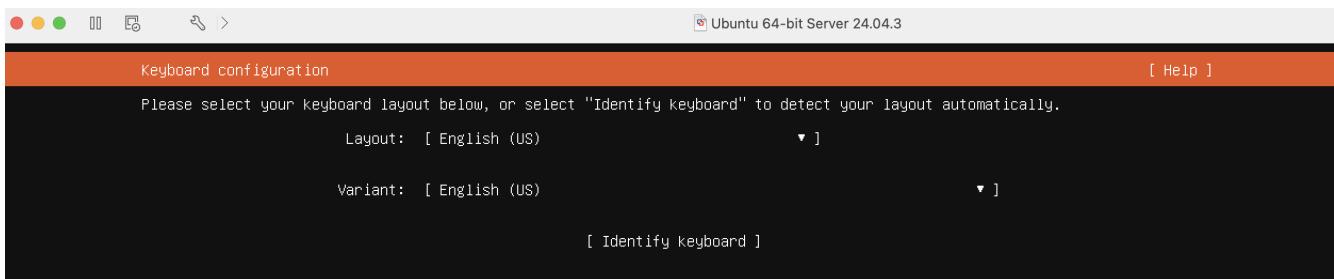
Now, we will follow each screen to finish the installation till the end. (Keep all the default options, and hit done.)



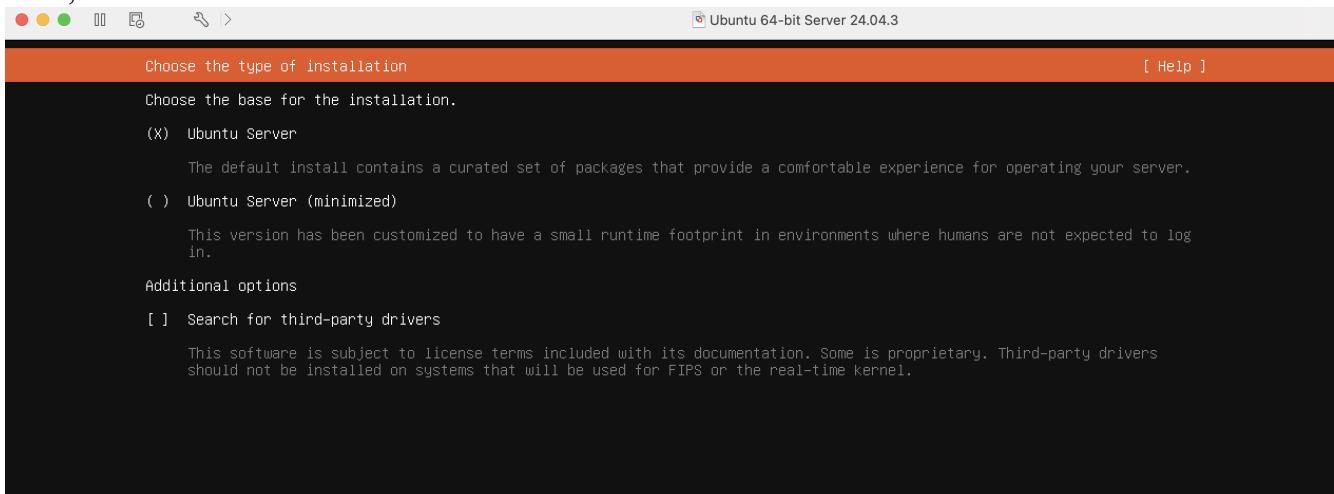
Next screen,



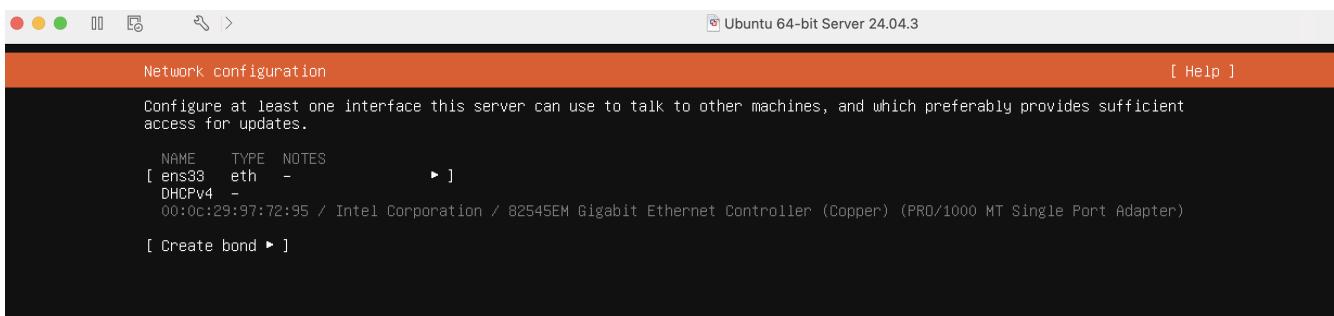
Next,



Next,



Next,



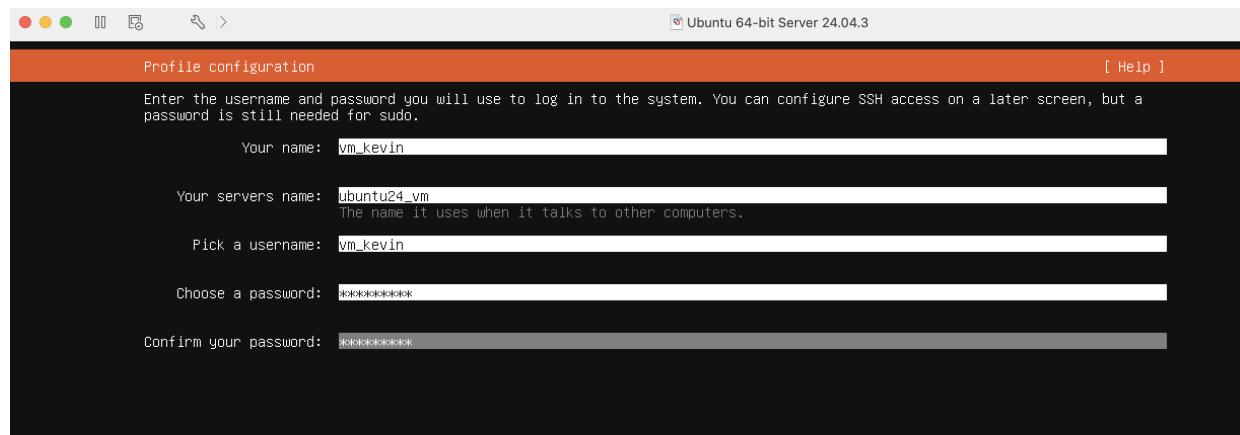
Next,



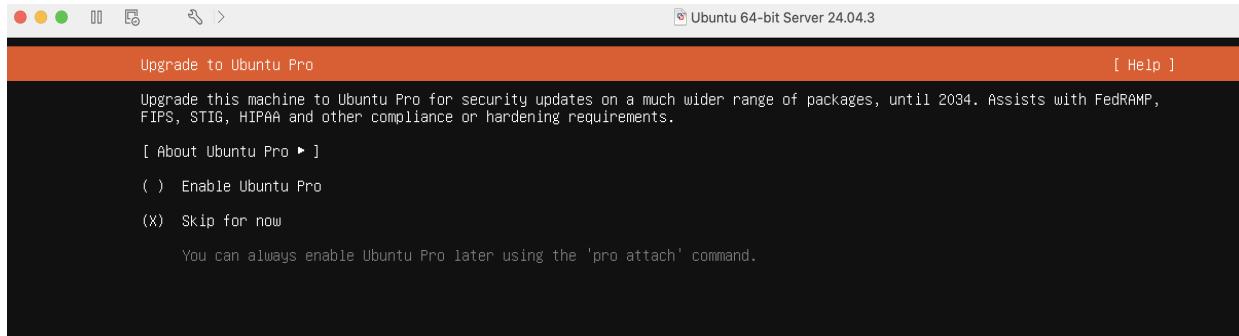
Next,



Next, use your “tab” key on the keyboard to fill them out, please write down your username and password.



Next,



Note: In order to get to the “Done” or “Back” button, use tab key on your keyboard.

Wait for a little bit,

```
subiquity/Ad/apply_autoinstall_config:  
subiquity/Late/apply_autoinstall_config:  
configuring apt  
curtin command in-target  
installing system  
executing curtin install initial step  
executing curtin install partitioning step  
curtin command install  
configuring storage  
running 'curtin block-meta simple'  
curtin command block-meta  
removing previous storage devices  
configuring disk: disk-sda  
configuring partition: partition-0  
configuring partition: partition-1  
configuring format: format-0  
configuring partition: partition-2  
configuring lvm_volumegroup: lvm_volumegroup-0  
configuring lvm_partition: lvm_partition-0  
configuring format: format-1  
configuring mount: mount-1  
configuring mount: mount-0  
executing curtin install extract step  
curtin command install  
writing install sources to disk  
running 'curtin extract'  
curtin command extract  
acquiring and extracting image from cp://tmp/tmpvfy6nbkr/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
```

This will take quite a while.....

If you wonder what was going on behind the scene and why it is taking so long, you can hit “View Full Log” in the bottom. You can see the item number there. Some might be downloading so it take some time.

```
Ubuntu 64-bit Server 24.04.3
[ Help ]
Installing system
Full installer output
Get:9 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 libtiff6 amd64 4.5.1+git230720-4ubuntu2.3 [199 kB]
Get:10 file:/cdrom noble/main amd64 bpctrace amd64 0.20.2-1ubuntu0.3 [1011 kB]
Get:11 file:/cdrom noble/main amd64 firmware-sof-signed all 2023.12.1-1ubuntu1.7 [7205 kB]
Get:12 file:/cdrom noble/main amd64 fonts-dejavu-mono all 2.37-8 [502 kB]
Get:13 file:/cdrom noble/main amd64 fonts-dejavu-core all 2.37-8 [835 kB]
Get:14 file:/cdrom noble/main amd64 fontconfig-config amd64 2.15.0-1.1ubuntu2 [37.3 kB]
Get:15 file:/cdrom noble/main amd64 hodata all 0.379-1 [29.1 kB]
Get:16 file:/cdrom noble/main amd64 iucode-tool amd64 2.3.1-3build1 [43.9 kB]
Get:17 file:/cdrom noble/main amd64 libaon3 amd64 3.8.2-2ubuntu0.1 [1941 kB]
Get:18 file:/cdrom noble/main amd64 libc-dev-bin amd64 2.39-0ubuntu8.5 [20.4 kB]
Get:19 file:/cdrom noble/main amd64 libfontconfig1 amd64 2.15.0-1.1ubuntu2 [139 kB]
Get:20 file:/cdrom noble/main amd64 libsharpyuv0 amd64 1.8.2-0.4build3 [15.8 kB]
Get:21 file:/cdrom noble/main amd64 libheif-plugin-aomenc amd64 1.17.6-1ubuntu4.1 [10.4 kB]
Get:22 file:/cdrom noble/main amd64 libde265-0 amd64 1.0.15-1build3 [166 kB]
Get:23 file:/cdrom noble/main amd64 libheif-plugin-libde265 amd64 1.17.6-1ubuntu4.1 [8176 kB]
Get:24 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-libc-dev amd64 6.8.0-79.79 [1906 kB]
Get:25 file:/cdrom noble/main amd64 libheif1 amd64 1.17.6-1ubuntu4.1 [275 kB]
Get:26 file:/cdrom noble/main amd64 libjpeg-turbo8 amd64 2.1.5-2ubuntu2 [150 kB]
Get:27 file:/cdrom noble/main amd64 libjpeg8 amd64 8c-2ubuntu11 [2148 kB]
Get:28 file:/cdrom noble/main amd64 libdeflate0 amd64 1:4.4.36-4build1 [43.9 kB]
Get:29 file:/cdrom noble/main amd64 libjbigo1 amd64 2.1-6.1ubuntu2 [29.7 kB]
Get:30 file:/cdrom noble/main amd64 liblerc4 amd64 4.0.0+ds-4ubuntu2 [179 kB]
Get:31 file:/cdrom noble/main amd64 libwebp7 amd64 1.3.2-0.4build3 [230 kB]
Get:32 file:/cdrom noble/main amd64 libxpm4 amd64 1:3.5.17-1build2 [36.5 kB]
Get:33 file:/cdrom noble/main amd64 libgd3 amd64 2.3.3-9ubuntu5 [128 kB]
Get:34 file:/cdrom noble/main amd64 libc-devtools amd64 2.39-0ubuntu8.5 [29.3 kB]
Get:35 file:/cdrom noble/main amd64 libcrypt-dev amd64 1:4.4.36-4build1 [112 kB]
Get:36 file:/cdrom noble/main amd64 rpcsvc-proto amd64 1.4.2-0ubuntu7 [67.4 kB]
Get:37 file:/cdrom noble/main amd64 libc6-dev amd64 2.39-0ubuntu8.5 [2123 kB]
Get:38 file:/cdrom noble/main amd64 libibus-glib2-2 amd64 0.112-3build2 [64.2 kB]
Get:39 file:/cdrom noble/main amd64 libheif-plugin-aomenc amd64 1.17.6-1ubuntu4.1 [14.7 kB]
Get:40 file:/cdrom noble/main amd64 libplist-2.0-4 amd64 2.3.0-1~exp2build2 [48.0 kB]
Get:41 file:/cdrom noble/main amd64 libusbmuxd6 amd64 2.0.2-4build3 [20.3 kB]
Get:42 file:/cdrom noble/main amd64 libimobiledevice6 amd64 1.3.0-8.1build3 [70.3 kB]
Get:43 file:/cdrom noble/main amd64 libpower-glib3 amd64 1.90.3-1 [39.0 kB]
Get:44 file:/cdrom noble/main amd64 wireless-regdb all 2024.10.07-0ubuntu2~24.04.1 [7344 kB]
Get:45 file:/cdrom noble/main amd64 intel-microcode amd64 3.20250512.0ubuntu0.24.04.1 [11.1 MB]
Get:46 file:/cdrom noble/main amd64 amd64-microcode amd64 3.20250311.0ubuntu0.24.04.1 [290 kB]
Get:47 file:/cdrom noble/main amd64 manpages-dev all 6.7-2 [203 kB]
Get:48 file:/cdrom noble/main amd64 thermald amd64 2.5.6-2ubuntu0.24.04.2 [213 kB]
Get:49 file:/cdrom noble/main amd64 ubuntu-kernel-accessories amd64 1.539.2 [10.9 kB]
Get:50 file:/cdrom noble/main amd64 upower amd64 1.90.3-1 [84.4 kB]
Get:51 file:/cdrom noble/main amd64 usbmuxd amd64 1.1.1-5~exp3ubuntu2 [42.0 kB]
Get:52 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-firmware amd64 20240318.git3b128b60-0ubuntu2.17 [537 MB]
```

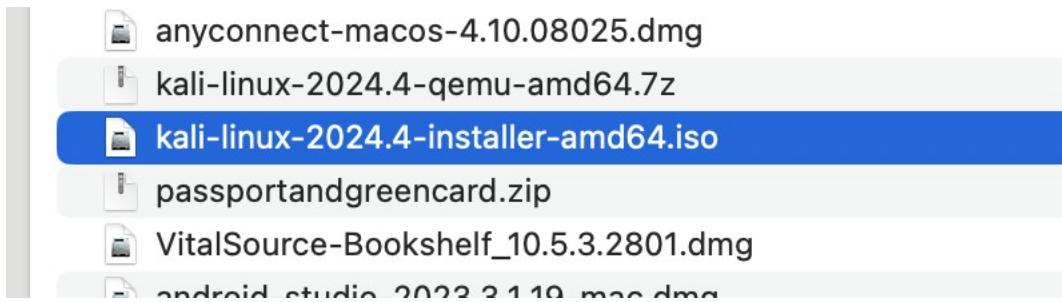
New updates,

```
Ubuntu 64-bit Server 24.04.3
[ Help ]
Installing system
Full installer output
Get:22 file:/cdrom noble/main amd64 libde265-0 amd64 1.0.15-1build3 [166 kB]
Get:23 file:/cdrom noble/main amd64 libheif-plugin-libde265 amd64 1.17.6-1ubuntu4.1 [8176 kB]
Get:24 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-libc-dev amd64 6.8.0-79.79 [1906 kB]
Get:25 file:/cdrom noble/main amd64 libheif1 amd64 1.17.6-1ubuntu4.1 [275 kB]
Get:26 file:/cdrom noble/main amd64 libjpeg-turbo8 amd64 2.1.5-2ubuntu2 [150 kB]
Get:27 file:/cdrom noble/main amd64 libjpeg8 amd64 8c-2ubuntu11 [2148 kB]
Get:28 file:/cdrom noble/main amd64 libdeflate0 amd64 1:4.4.36-4build1 [43.9 kB]
Get:29 file:/cdrom noble/main amd64 libjbigo1 amd64 2.1-6.1ubuntu2 [29.7 kB]
Get:30 file:/cdrom noble/main amd64 liblerc4 amd64 4.0.0+ds-4ubuntu2 [179 kB]
Get:31 file:/cdrom noble/main amd64 libwebp7 amd64 1.3.2-0.4build3 [230 kB]
Get:32 file:/cdrom noble/main amd64 libxpm4 amd64 1:3.5.17-1build2 [36.5 kB]
Get:33 file:/cdrom noble/main amd64 libgd3 amd64 2.3.3-9ubuntu5 [128 kB]
Get:34 file:/cdrom noble/main amd64 libc-devtools amd64 2.39-0ubuntu8.5 [29.3 kB]
Get:35 file:/cdrom noble/main amd64 libcrypt-dev amd64 1:4.4.36-4build1 [112 kB]
Get:36 file:/cdrom noble/main amd64 rpcsvc-proto amd64 1.4.2-0ubuntu7 [67.4 kB]
Get:37 file:/cdrom noble/main amd64 libc6-dev amd64 2.39-0ubuntu8.5 [2123 kB]
Get:38 file:/cdrom noble/main amd64 libibus-glib2-1-2 amd64 0.112-3build2 [64.2 kB]
Get:39 file:/cdrom noble/main amd64 libimobiledevice6 amd64 1.3.0-8.1build3 [70.3 kB]
Get:40 file:/cdrom noble/main amd64 libplist-2.0-4 amd64 2.3.0-1~exp2build2 [48.0 kB]
Get:41 file:/cdrom noble/main amd64 libusbmuxd6 amd64 2.0.2-4build3 [20.3 kB]
Get:42 file:/cdrom noble/main amd64 libimobiledevice6 amd64 1.3.0-8.1build3 [70.3 kB]
Get:43 file:/cdrom noble/main amd64 libpower-glib3 amd64 1.90.3-1 [39.0 kB]
Get:44 file:/cdrom noble/main amd64 wireless-regdb all 2024.10.07-0ubuntu2~24.04.1 [7344 kB]
Get:45 file:/cdrom noble/main amd64 intel-microcode amd64 3.20250512.0ubuntu0.24.04.1 [11.1 MB]
Get:46 file:/cdrom noble/main amd64 amd64-microcode amd64 3.20250311.0ubuntu0.24.04.1 [290 kB]
Get:47 file:/cdrom noble/main amd64 manpages-dev all 6.7-2 [203 kB]
Get:48 file:/cdrom noble/main amd64 thermald amd64 2.5.6-2ubuntu0.24.04.2 [213 kB]
Get:49 file:/cdrom noble/main amd64 ubuntu-kernel-accessories amd64 1.539.2 [10.9 kB]
Get:50 file:/cdrom noble/main amd64 upower amd64 1.90.3-1 [84.4 kB]
Get:51 file:/cdrom noble/main amd64 usbmuxd amd64 1.1.1-5~exp3ubuntu2 [42.0 kB]
Get:52 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-firmware amd64 20240318.git3b128b60-0ubuntu2.17 [537 MB]
Ign:52 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-firmware amd64 20240318.git3b128b60-0ubuntu2.17
Get:53 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-modules-6.8.0-79-generic amd64 6.8.0-79.79 [39.4 MB]
Get:54 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-image-6.8.0-79-generic amd64 6.8.0-79.79 [14.8 MB]
Get:55 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-modules-extra-6.8.0-79-generic amd64 6.8.0-79.79 [113 MB]
Get:56 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-image-generic amd64 6.8.0-79.79 [10.9 kB]
Get:57 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-headers-6.8.0-79 all 6.8.0-79.79 [14.0 MB]
Get:58 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-headers-6.8.0-79-generic amd64 6.8.0-79.79 [4163 kB]
Get:59 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-headers-generic amd64 6.8.0-79.79 [10.7 kB]
Get:60 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-generic amd64 6.8.0-79.79 [1702 kB]
Get:61 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-tools-common all 6.8.0-79.79 [747 kB]
Get:62 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-tools-6.8.0-79 amd64 6.8.0-79.79 [5407 kB]
Get:63 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-tools-6.8.0-79-generic amd64 6.8.0-79.79 [1812 kB]
Get:64 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-firmware amd64 20240318.git3b128b60-0ubuntu2.17 [537 MB]
```

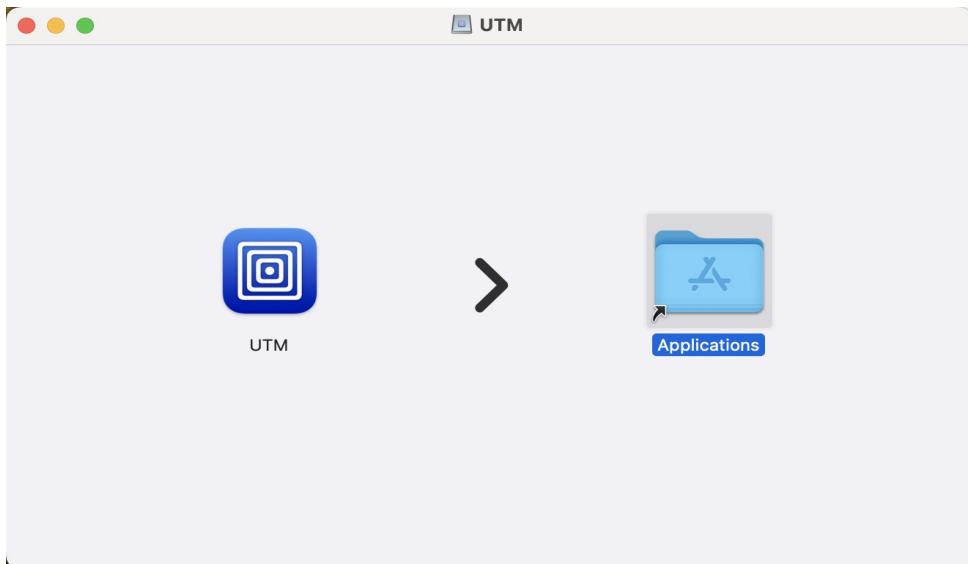
UTM VM

If this crashes or giving you other troubles, we can use another VM.

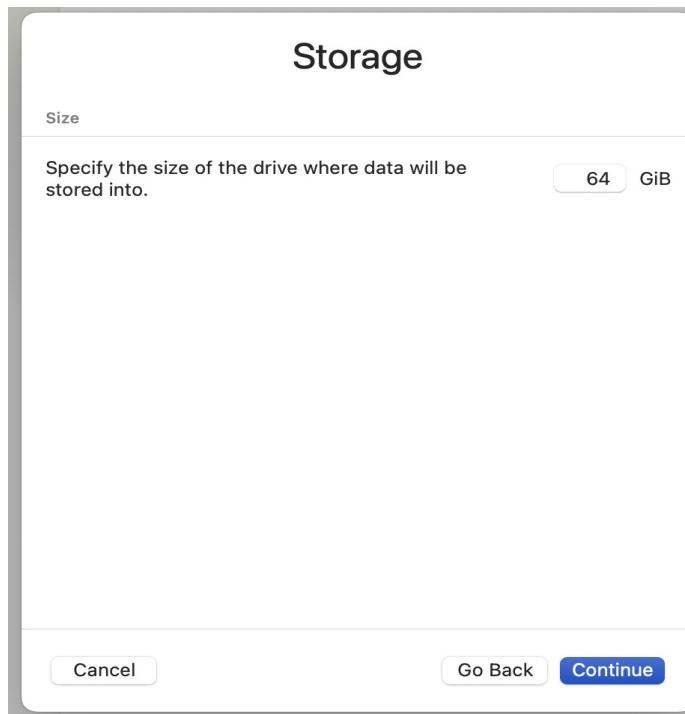
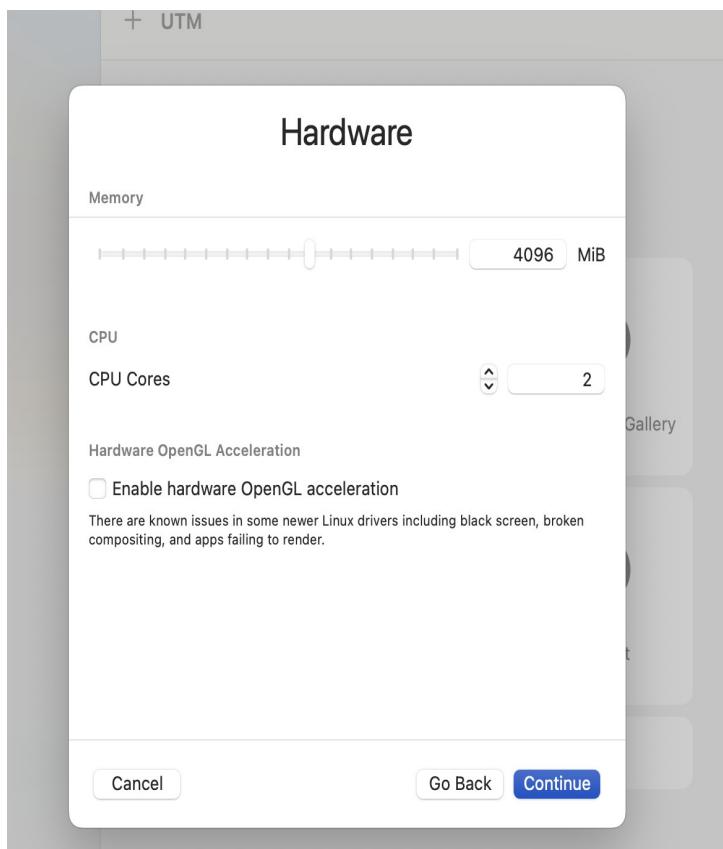
In this example, I am using Intel Mac and install a kali-linux-2024.4-installer-amd64.iso.



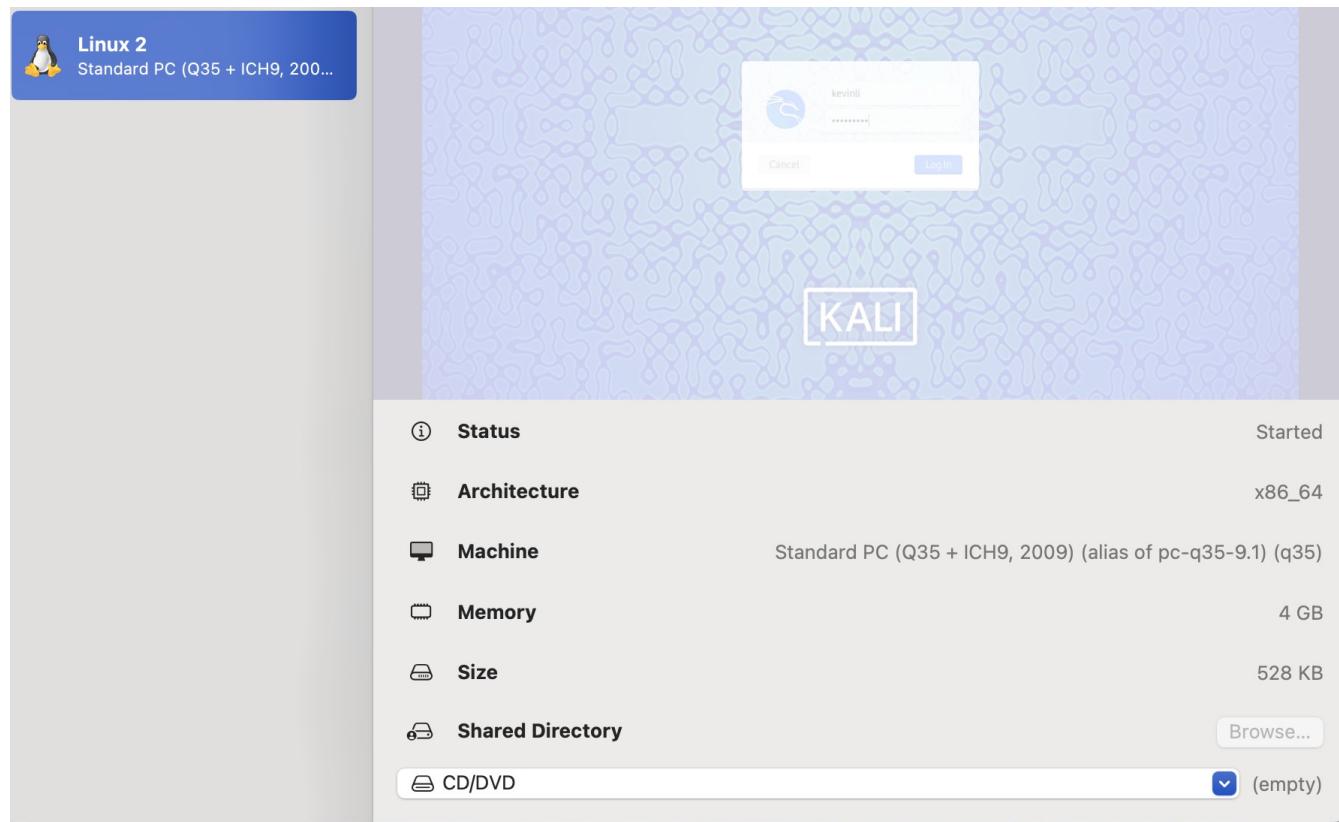
First install the UTM in your Mac,



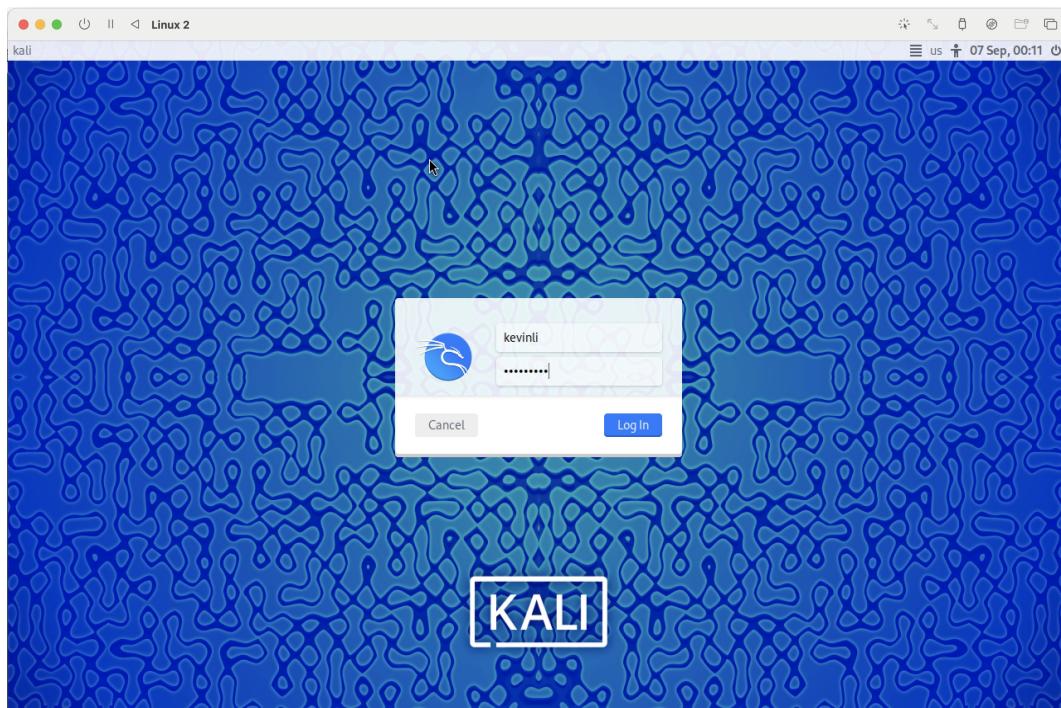
Then, create a new VM, and follow the instruction to finish installing a linux ISO.



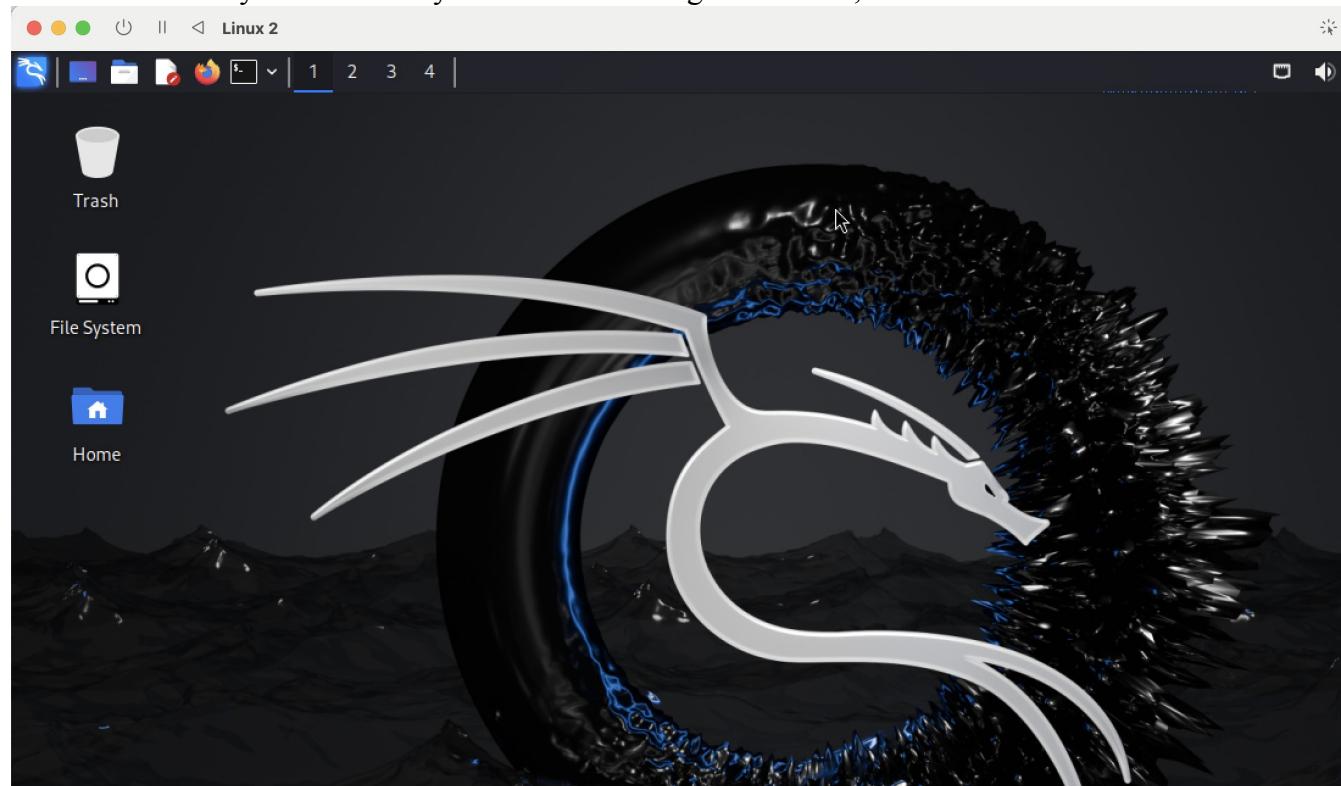
After the installation, you will need to remove the ISO file for the VM image. In the bottom of the CD/DVD, please click “clear”.



Power off the VM image, and reboot.



Please make sure you remember your accounts during installation,



Now it is all good, and we can start a CLI/shell terminal to start learning the linux commands.