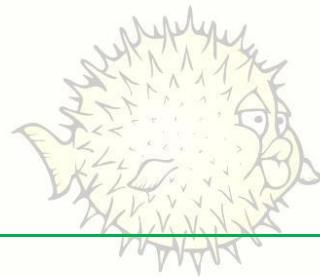


# OPERATING SYSTEM INDIVIDUAL ASSIGNMENT

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**BAHIR DAR UNIVERSITY**  
**BAHIR DAR INSTITUTE OF TECHNOLOGY**  
**FACULTY OF COMPUTING**  
**Department: Software Engineering**  
**Year: 2nd Year, 2017 E.C**



**NAME**

**ID**

FINOTELOZA WANAW.....1601526

**SUBMITTED TO: Mr. WONDIMU BAYE**

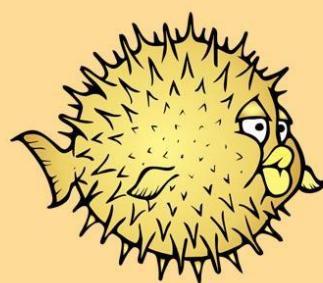
**Submission Date: 16/07/2017 E.C.**

# OPERATING SYSTEM INDIVIDUAL ASSIGNMENT

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OPERATING SYSTEM ASSIGNED: OPENBSD ISO

VIRTUALIZATION TOOL: VMWARE WORKSTATION



***OpenBSD***

***OpenBSD***

**INTUITIVE INETERFACE**

# OPERATING SYSTEM INDIVIDUAL ASSIGNMENT

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## Installation steps

INSTALLATION IT COULD BE DIVIDED INTO TWO:

1. Virtual box downloading and installation
2. OPENBSD OS downloading and installation

**Downloading Virtual box** Go to any browser and search for “Virtual Box”. Click the link encircled in blue color.



## Now you will find all the websites where you can click one website

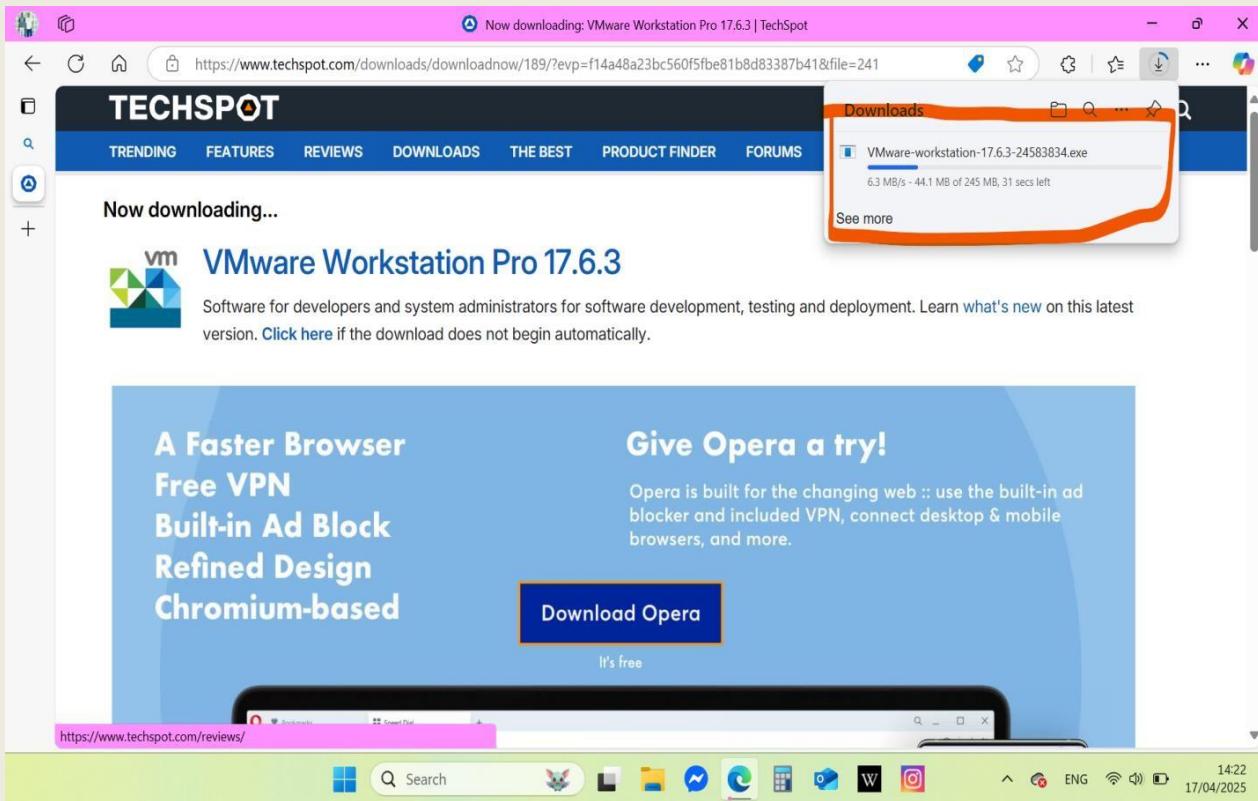
A screenshot of a Microsoft Bing search results page. The search query is "vmware workstation". The results include a link to the official VMware Workstation product page, a blog post from VMware Blogs about the free availability of Workstation Pro, and a news item from Wikipedia. To the right of the search results, there is a detailed sidebar for "VMware Workstation" with its logo, developer information (VMware), and a brief description of its capabilities.

Many os will come where you will have option to decide which os is already in your computer.

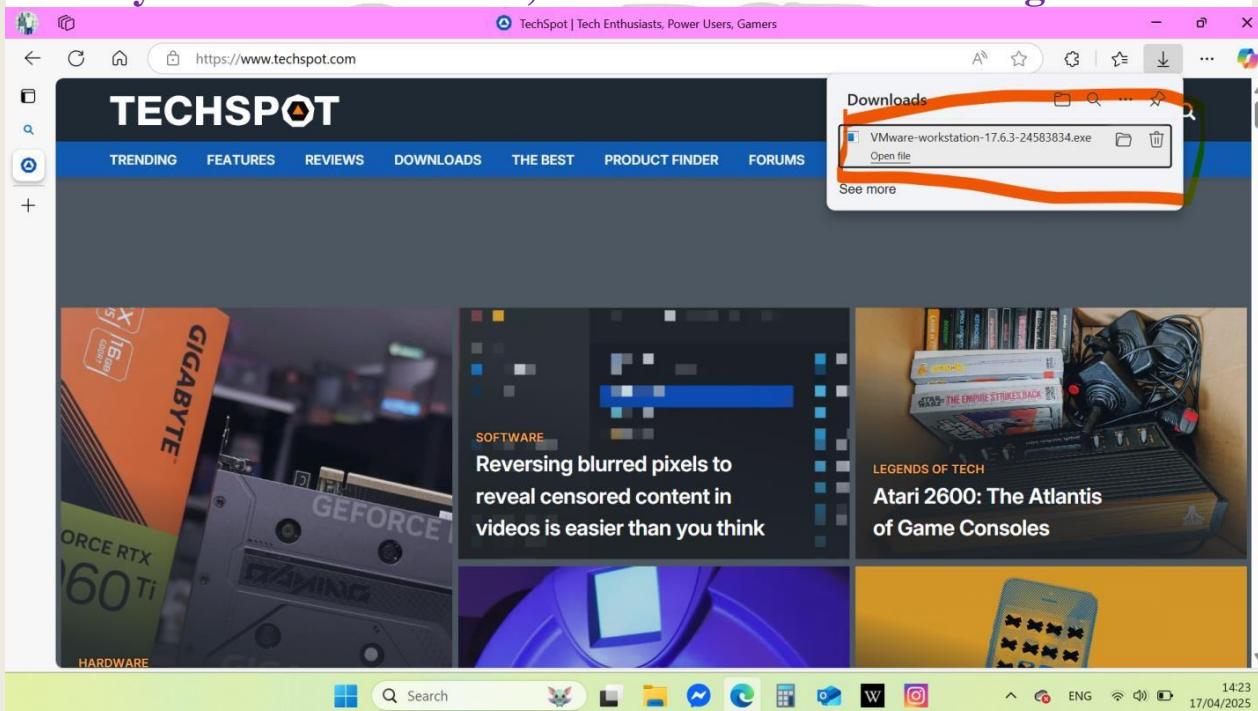
Because am running window in my pc then I have to click on window workstation with red circle.

A screenshot of the TechSpot website showing the download page for VMware Workstation Pro. The page features a prominent "Download Now" button. Below it, a dropdown menu titled "Download options:" lists several options: "Workstation Windows", "VMware Player Windows", "Workstation Linux", "VMware Player Linux", "Workstation Windows 17.6.2", "Workstation Windows 17.6.1", "Workstation Windows 17.5.2", and "Workstation Linux 17.6.1". The "Workstation Windows" option is highlighted with a red box. The page also includes a sidebar with links to different editions of VMware Workstation and a "DOWNLOADS" section at the bottom.

Now my download will start; it's labeled with red rectangle.

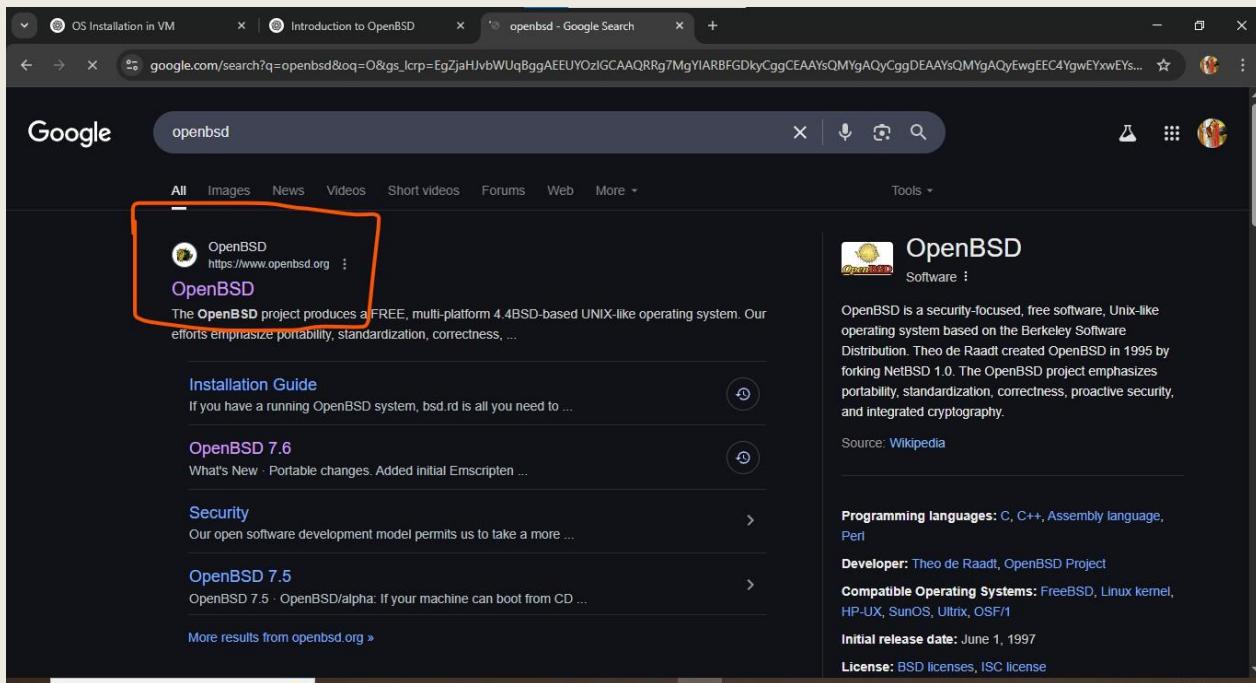


Now my download has finish, I encircled with red rectangle.

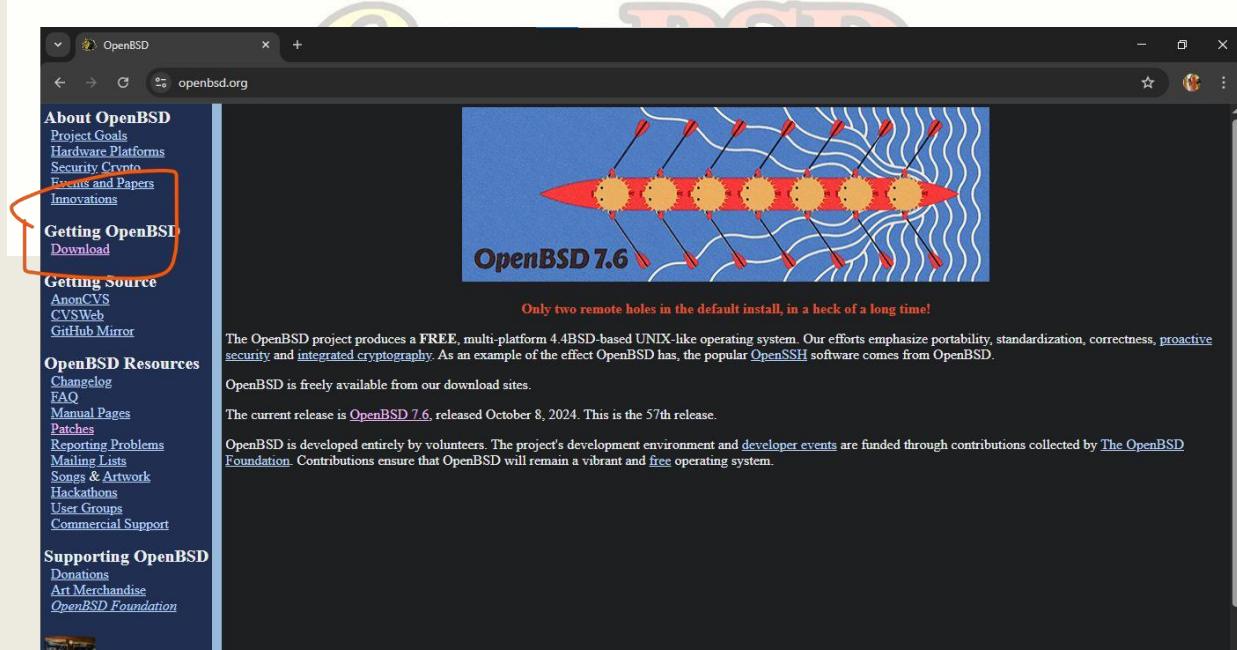


## OPENBSD OS downloading steps.

Go to any browser again and search for OPENBSD OS and click the link that encircled with red color



Click downloads



## It will ask you for the option (click arms64)

The following installation images are available:

|                |                                                                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| install76.img  | A disk image that can be written to a USB flash drive or similar device. Includes the file sets.<br>amd64   arm64   i386   octeon   powerpc64   riscv64   sparc64                                                                  |
| miniroot76.img | The same as above, but file sets are not included. They can be pulled down from the internet or from a local disk.<br>alpha   amd64   arm64   armv7   i386   landisk   loongson   luna88k   octeon   powerpc64   riscv64   sparc64 |
| install76.iso  | An ISO 9660 image that can be used to create an install CD/DVD. Includes the file sets.<br>alpha   amd64   arm64   hppa   i386   macppc   powerpc64   sparc64                                                                      |
| cd76.iso       | The same as above, but file sets are not included.<br>alpha   amd64   hppa   i386   loongson   macppc   sparc64                                                                                                                    |
| floppy76.img   | Supports some older machines that lack other booting options.<br>amd64   i386   sparc64                                                                                                                                            |

Images can also be downloaded from a number of alternate [mirror sites](#).

An SHA256 file containing checksums can be found in the same directory as the installation files. You can confirm that none of the downloaded files were mangled in transit using the `sha256(1)` command.

```
$ sha256 -C SHA256 miniroot*.img  
(SHA256) miniroot76.img: OK
```

Or, if you're using the GNU coreutils:

## Click 64-bit Download

The following installation images are available:

|                |                                                                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| install76.img  | A disk image that can be written to a USB flash drive or similar device. Includes the file sets.<br>amd64   arm64   i386   octeon   powerpc64   riscv64   sparc64                                                                  |
| miniroot76.img | The same as above, but file sets are not included. They can be pulled down from the internet or from a local disk.<br>alpha   amd64   arm64   armv7   i386   landisk   loongson   luna88k   octeon   powerpc64   riscv64   sparc64 |
| install76.iso  | An ISO 9660 image that can be used to create an install CD/DVD. Includes the file sets.<br>alpha   amd64   arm64   hppa   i386   macppc   powerpc64   sparc64                                                                      |
| cd76.iso       | The same as above, but file sets are not included.<br>alpha   amd64   hppa   i386   loongson   macppc   sparc64                                                                                                                    |
| floppy76.img   | Supports some older machines that lack other booting options.<br>amd64   i386   sparc64                                                                                                                                            |

Images can also be downloaded from a number of alternate [mirror sites](#).

An SHA256 file containing checksums can be found in the same directory as the installation files. You can confirm that none of the downloaded files were mangled in transit using the `sha256(1)` command.

```
$ sha256 -C SHA256 miniroot*.img  
(SHA256) miniroot76.img: OK
```

Or, if you're using the GNU coreutils:

## It will start downloading

SD FAQ: Installation Guide

openbsd.org/faq/faq4.html#Download

### Downloading OpenBSD

The following installation images are available:

|                |                                                                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| install76.img  | A disk image that can be written to a USB flash drive or similar device. Includes the file sets.<br>amd64   arm64   i386   octeon   powerpc64   riscv64   sparc64                                                                  |
| miniroot76.img | The same as above, but file sets are not included. They can be pulled down from the internet or from a local disk.<br>alpha   amd64   arm64   armv7   i386   landisk   loongson   luna88k   octeon   powerpc64   riscv64   sparc64 |
| install76.iso  | An ISO 9660 image that can be used to create an install CD/DVD. Includes the file sets.<br>alpha   amd64   arm64   hppa   i386   macppc   powerpc64   sparc64                                                                      |
| cd76.iso       | The same as above, but file sets are not included.<br>alpha   amd64   hppa   i386   loongson   macppc   sparc64                                                                                                                    |
| floppy76.img   | Supports some older machines that lack other booting options.<br>amd64   i386   sparc64                                                                                                                                            |

Images can also be downloaded from a number of alternate [mirror sites](#).

An SHA256 file containing checksums can be found in the same directory as the installation files. You can confirm that none of the download's SHA256(1) command.

```
$ sha256 -C SHA256 miniroot*.img  
(SHA256) miniroot76.img: OK
```

Or, if you're using the GNU coreutils:

```
[REDACTED]
```

## Now the downloading has finished and I can get it in the download history

OpenBSD FAQ: Installation Guide

openbsd.org/faq/faq4.html#Download

### Downloading OpenBSD

The following installation images are available:

|                |                                                                                                                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| install76.img  | A disk image that can be written to a USB flash drive or similar device. Includes the file sets.<br>amd64   arm64   i386   octeon   powerpc64   riscv64   sparc64                                                                  |
| miniroot76.img | The same as above, but file sets are not included. They can be pulled down from the internet or from a local disk.<br>alpha   amd64   arm64   armv7   i386   landisk   loongson   luna88k   octeon   powerpc64   riscv64   sparc64 |
| install76.iso  | An ISO 9660 image that can be used to create an install CD/DVD. Includes the file sets.<br>alpha   amd64   arm64   hppa   i386   macppc   powerpc64   sparc64                                                                      |
| cd76.iso       | The same as above, but file sets are not included.<br>alpha   amd64   hppa   i386   loongson   macppc   sparc64                                                                                                                    |
| floppy76.img   | Supports some older machines that lack other booting options.<br>amd64   i386   sparc64                                                                                                                                            |

Images can also be downloaded from a number of alternate [mirror sites](#).

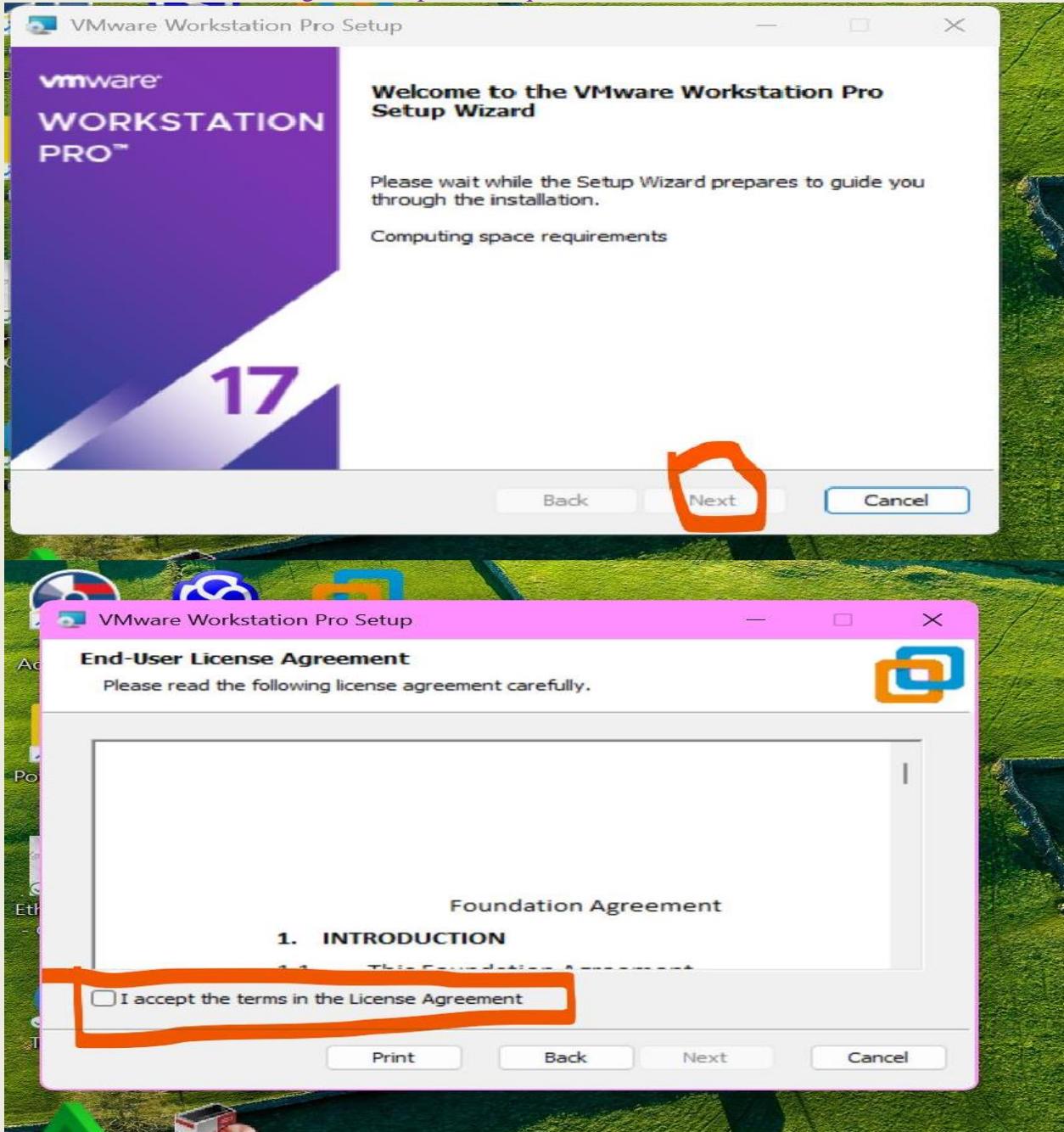
An SHA256 file containing checksums can be found in the same directory as the installation files. You can confirm that none of the download's SHA256(1) command.

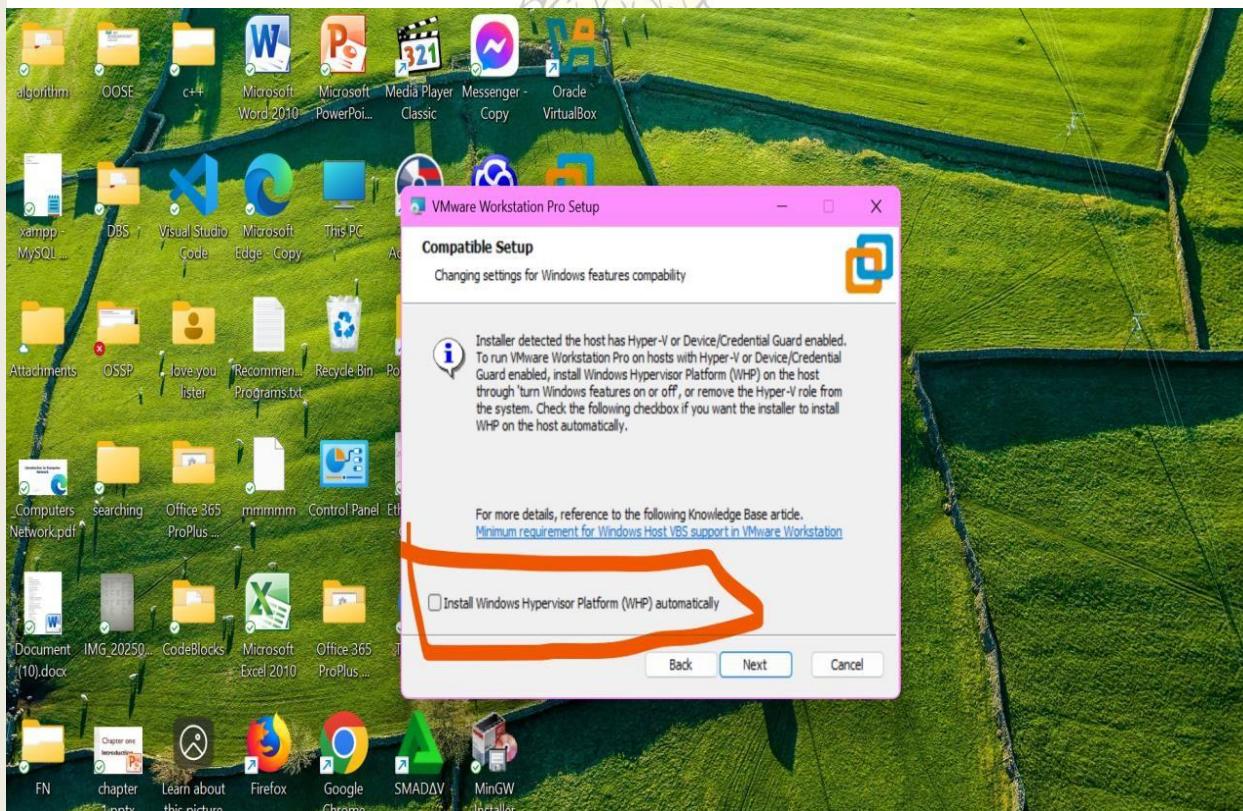
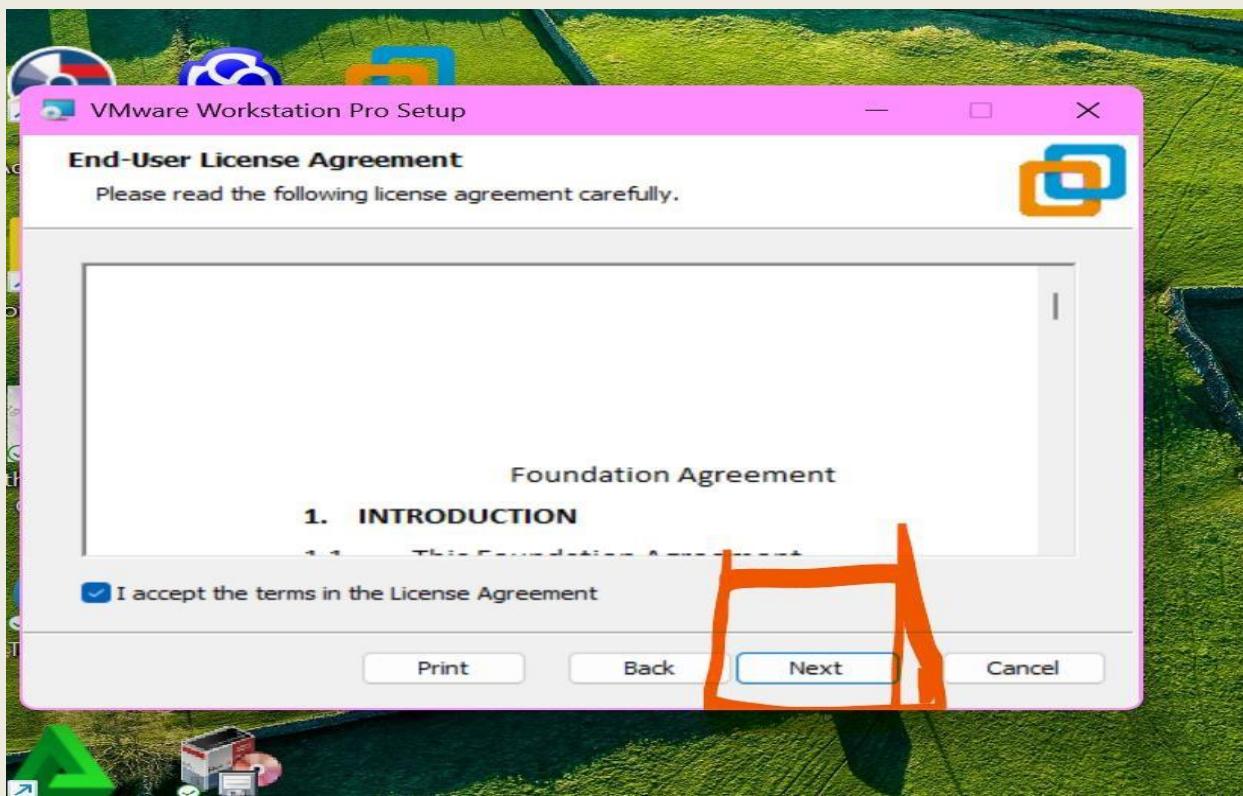
```
$ sha256 -C SHA256 miniroot*.img  
(SHA256) miniroot76.img: OK
```

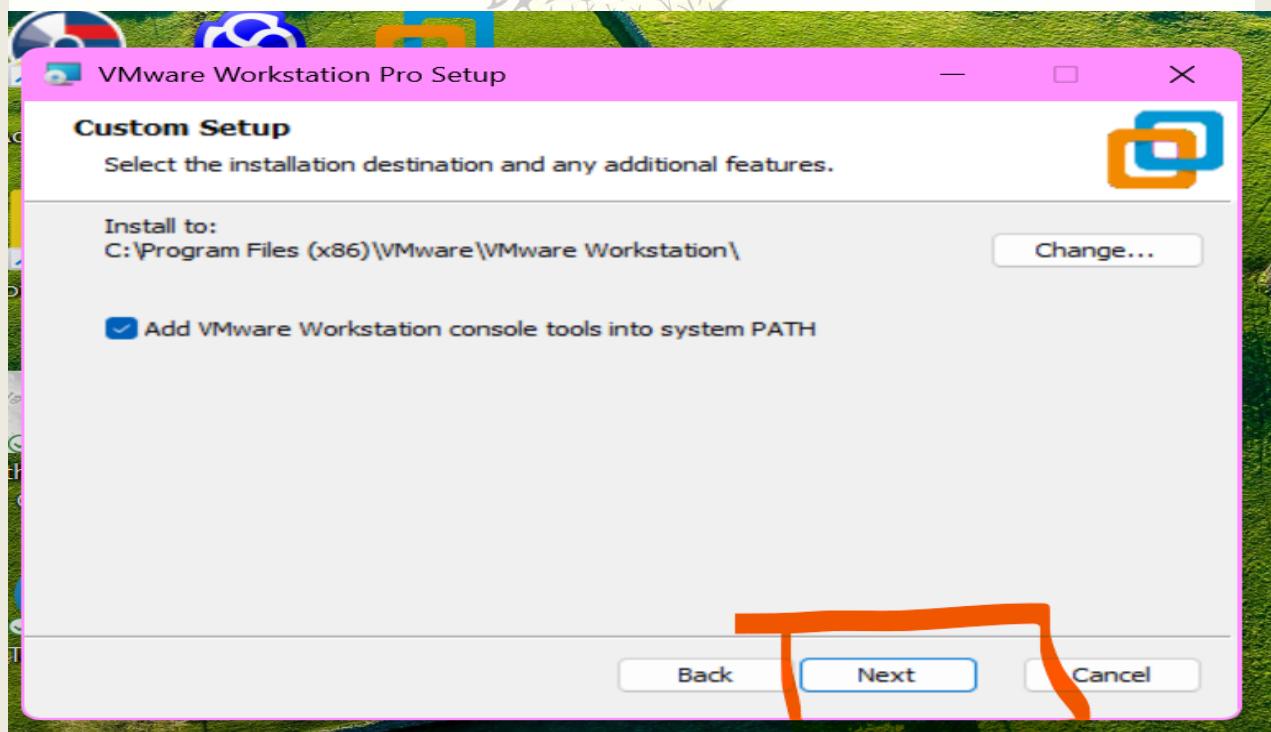
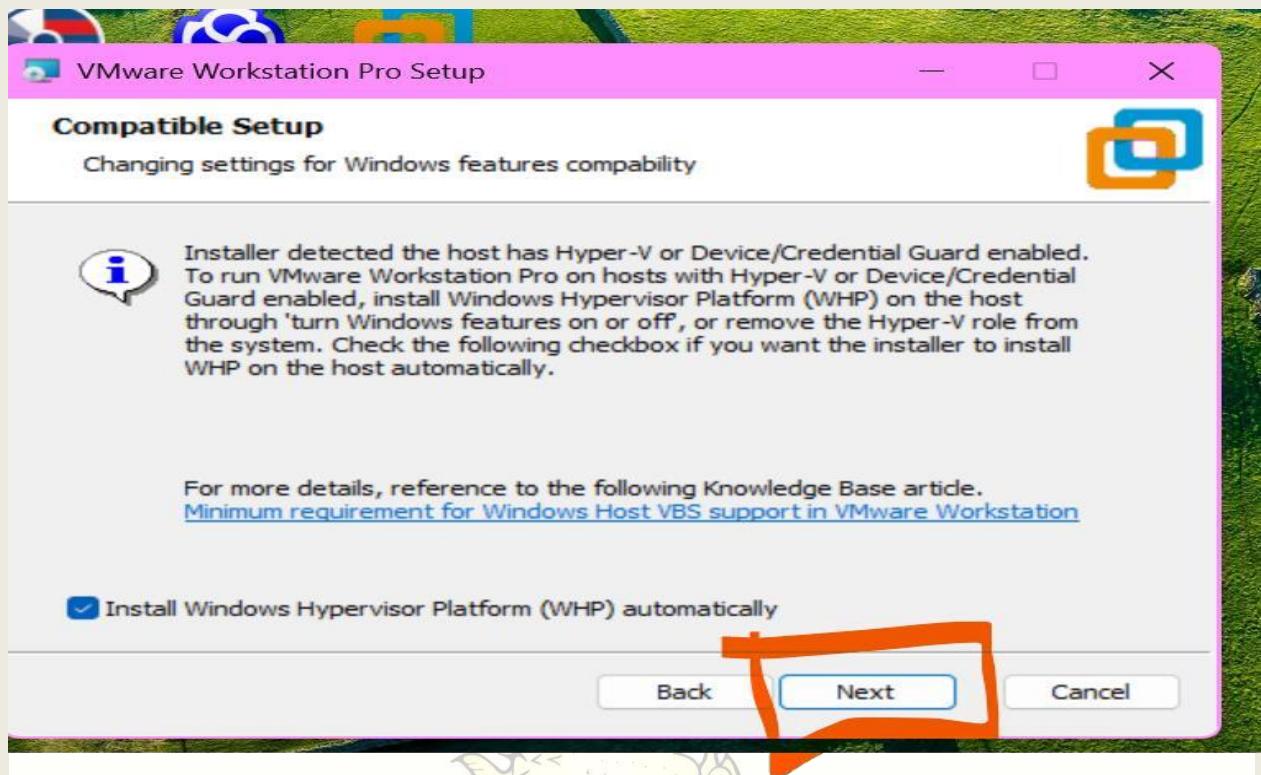
## Installation of virtual Box

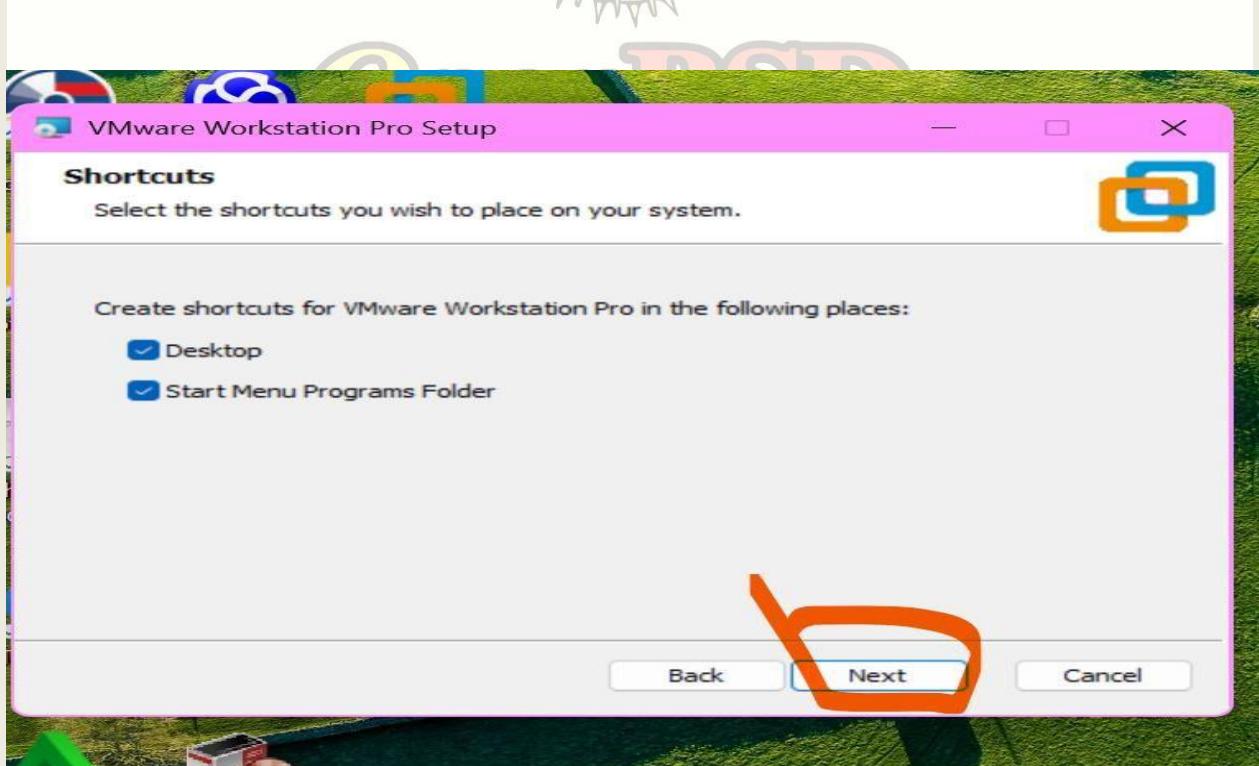
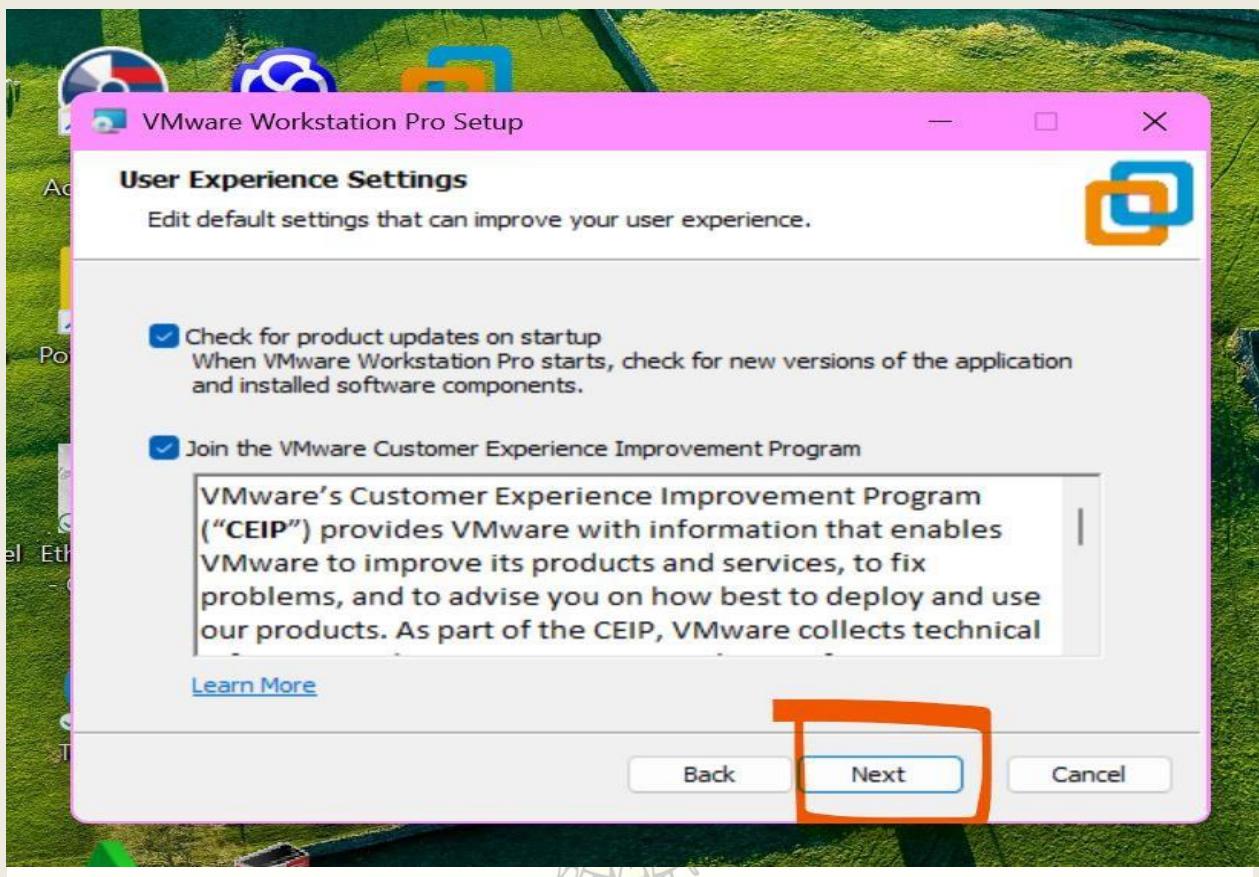
### Run the installer:

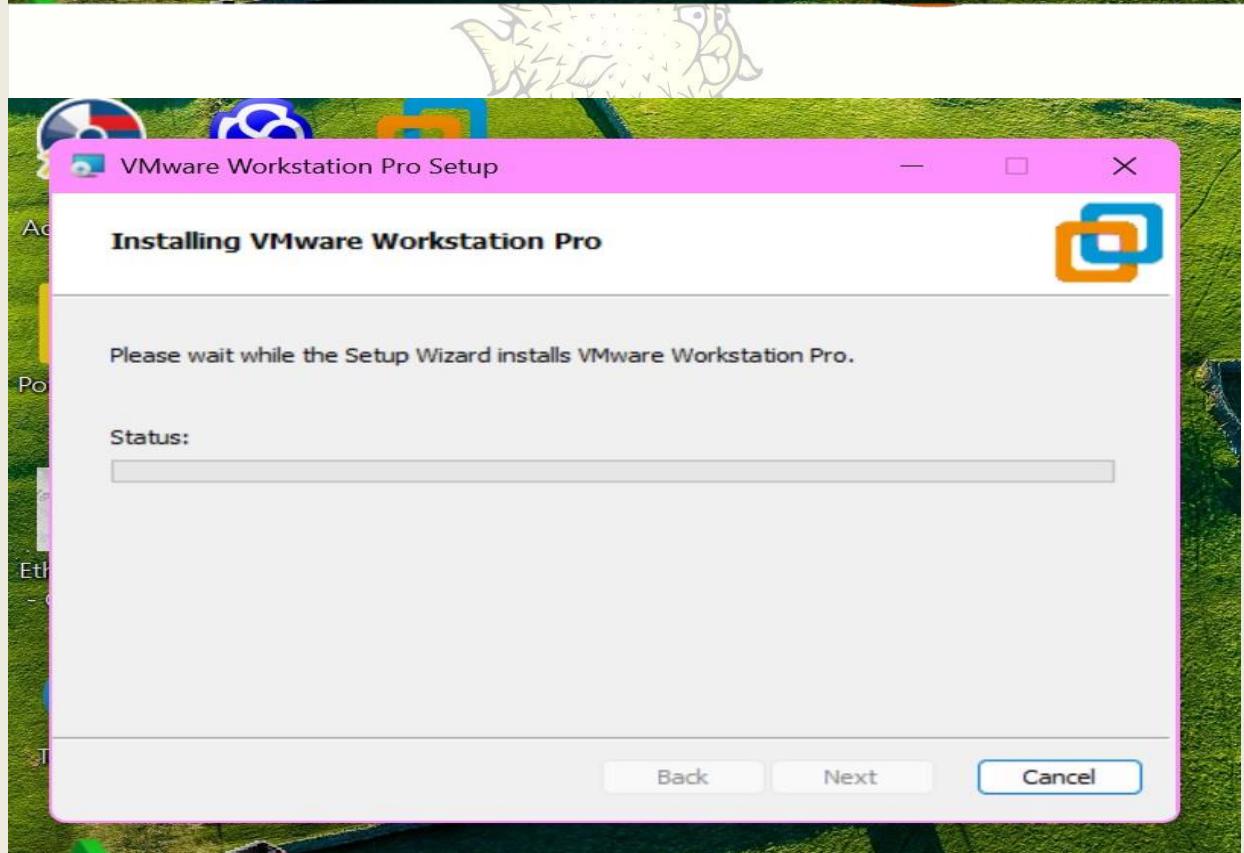
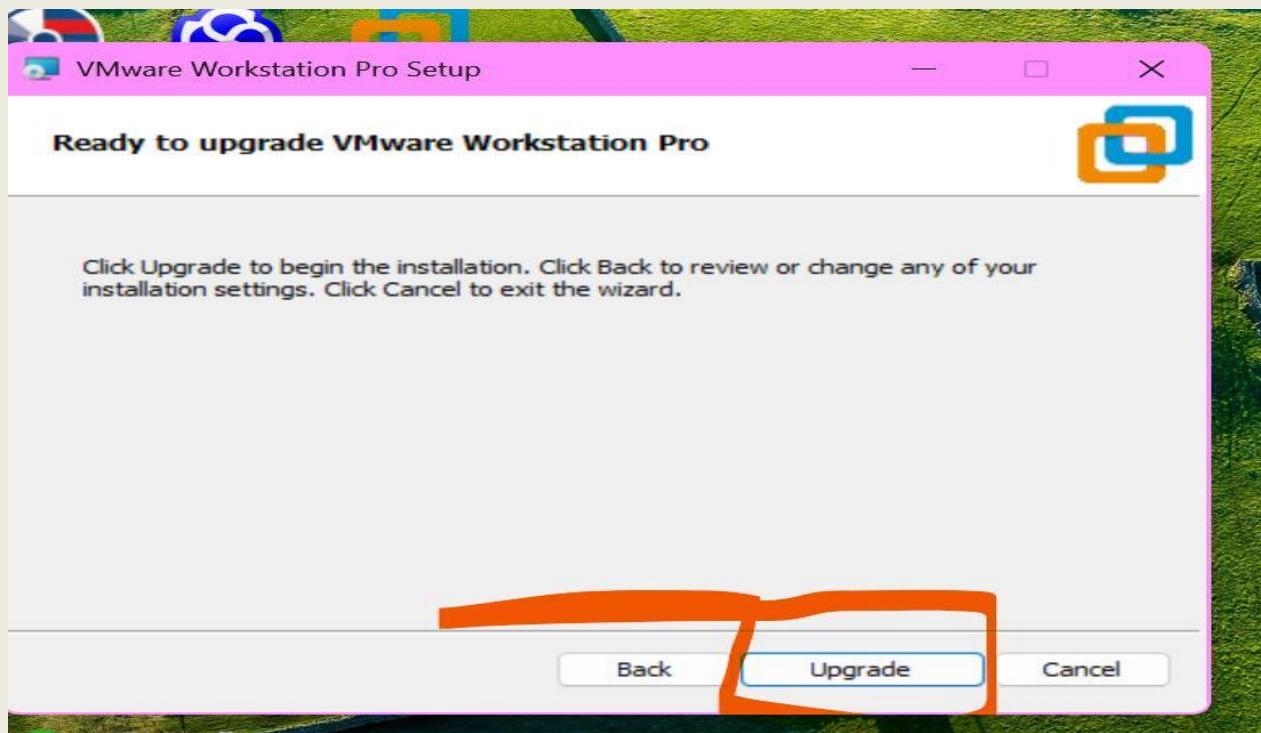
Now I downloaded it, I can run the installer. In windows, this involves clicking through a series of prompts. The installer will ask where to install virtual box and whether to create shortcuts. Stick with the default settings unless specific requirements.

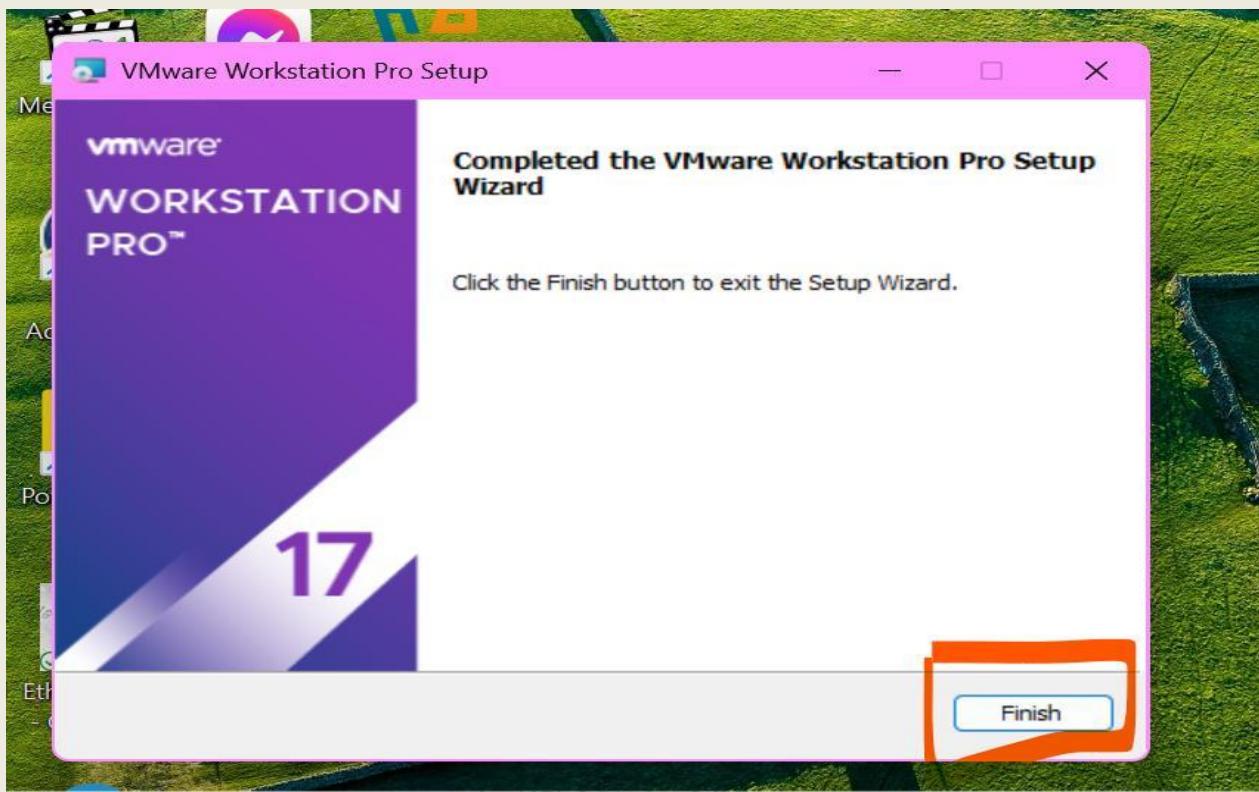






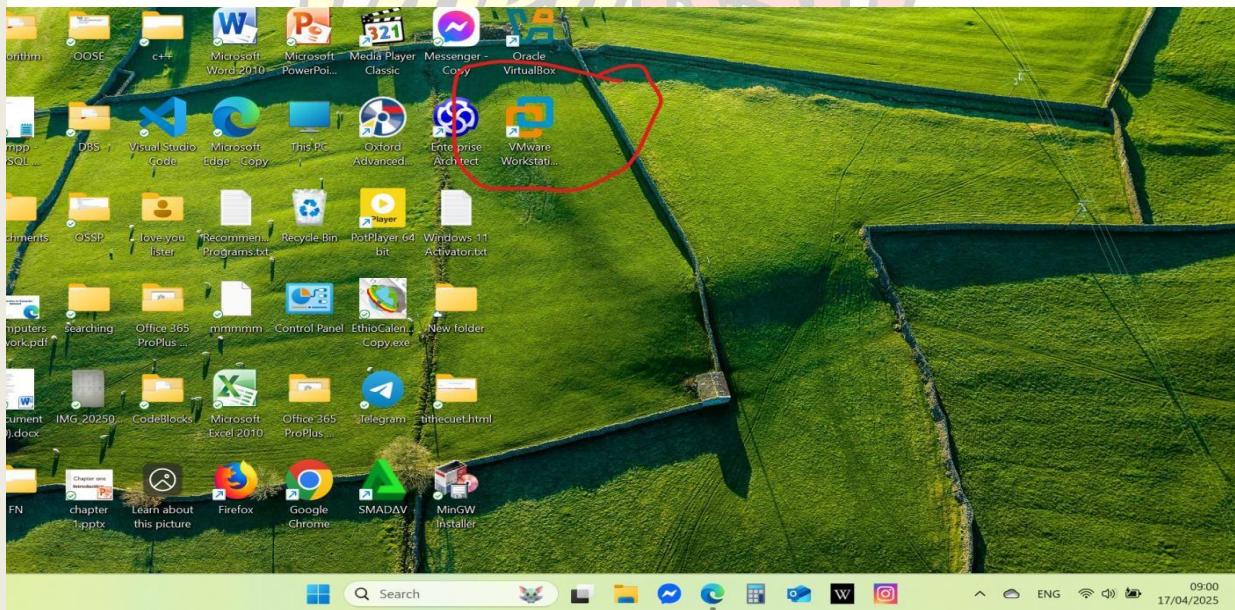


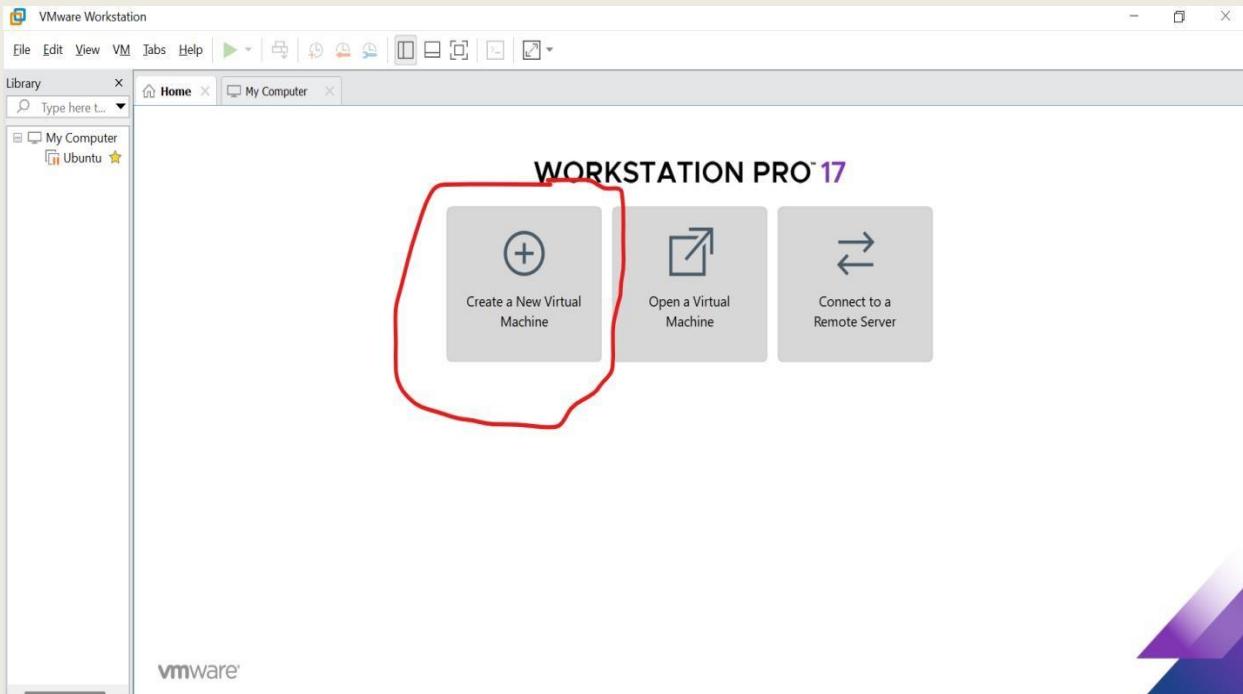




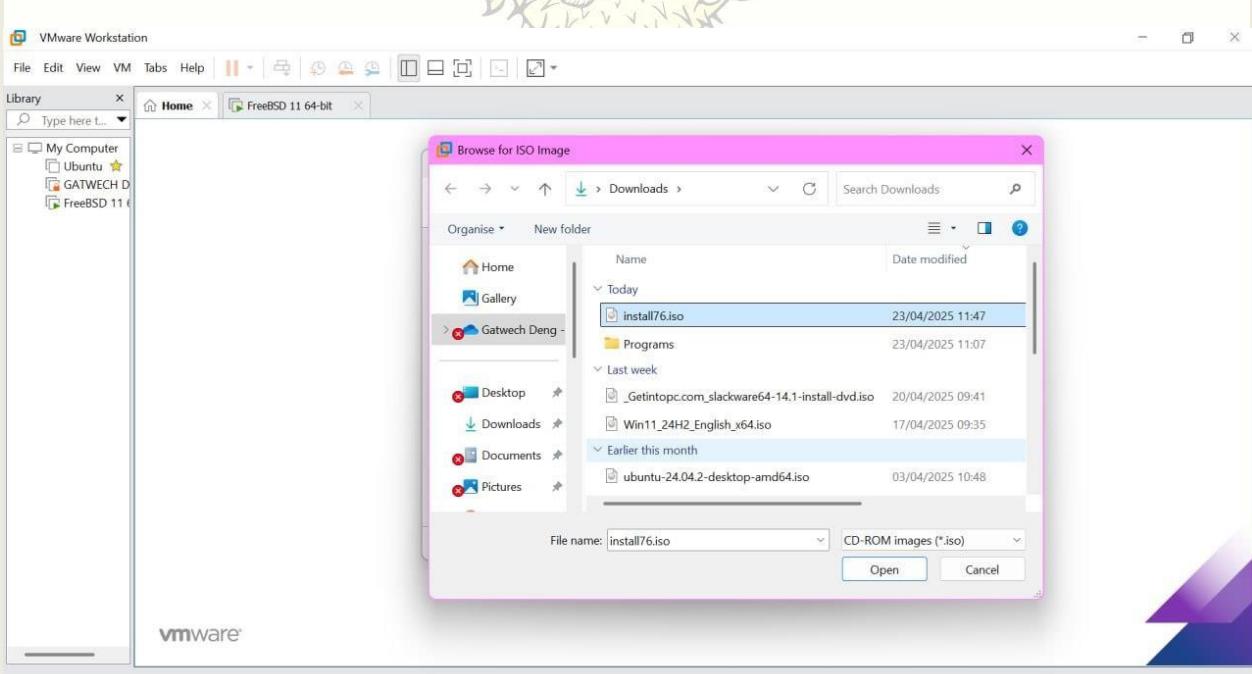
### i. Snipped Images Placeholder

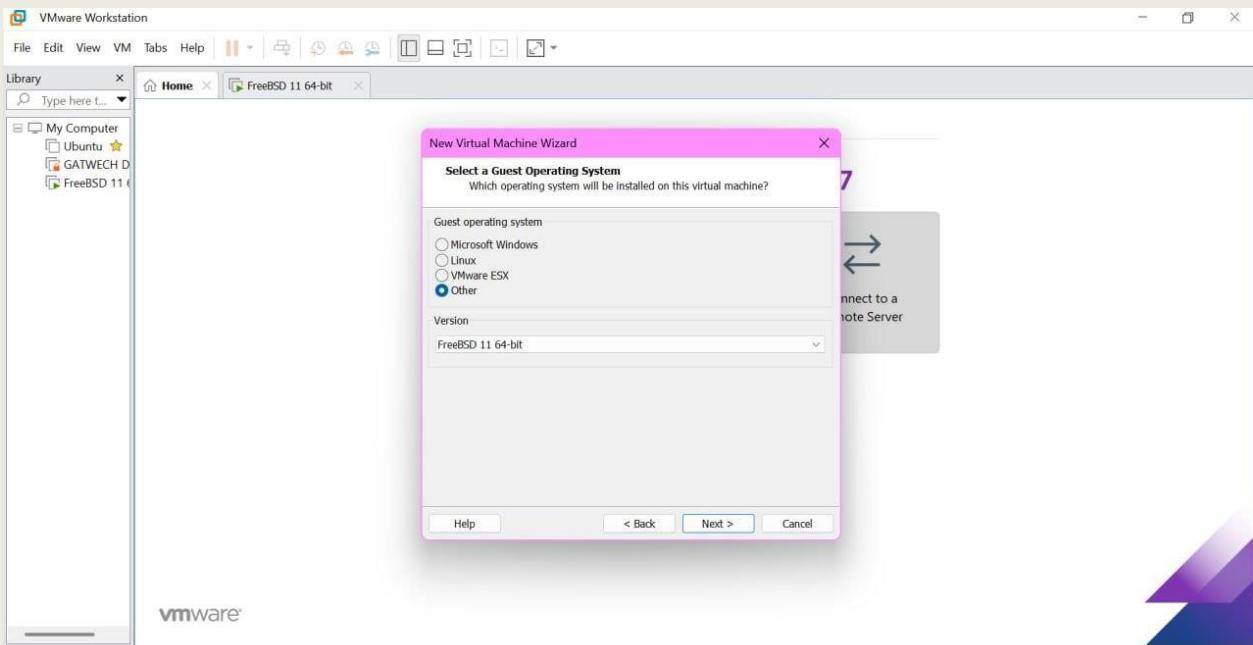
#### 1. Open VMware Workstation → New Virtual Machine



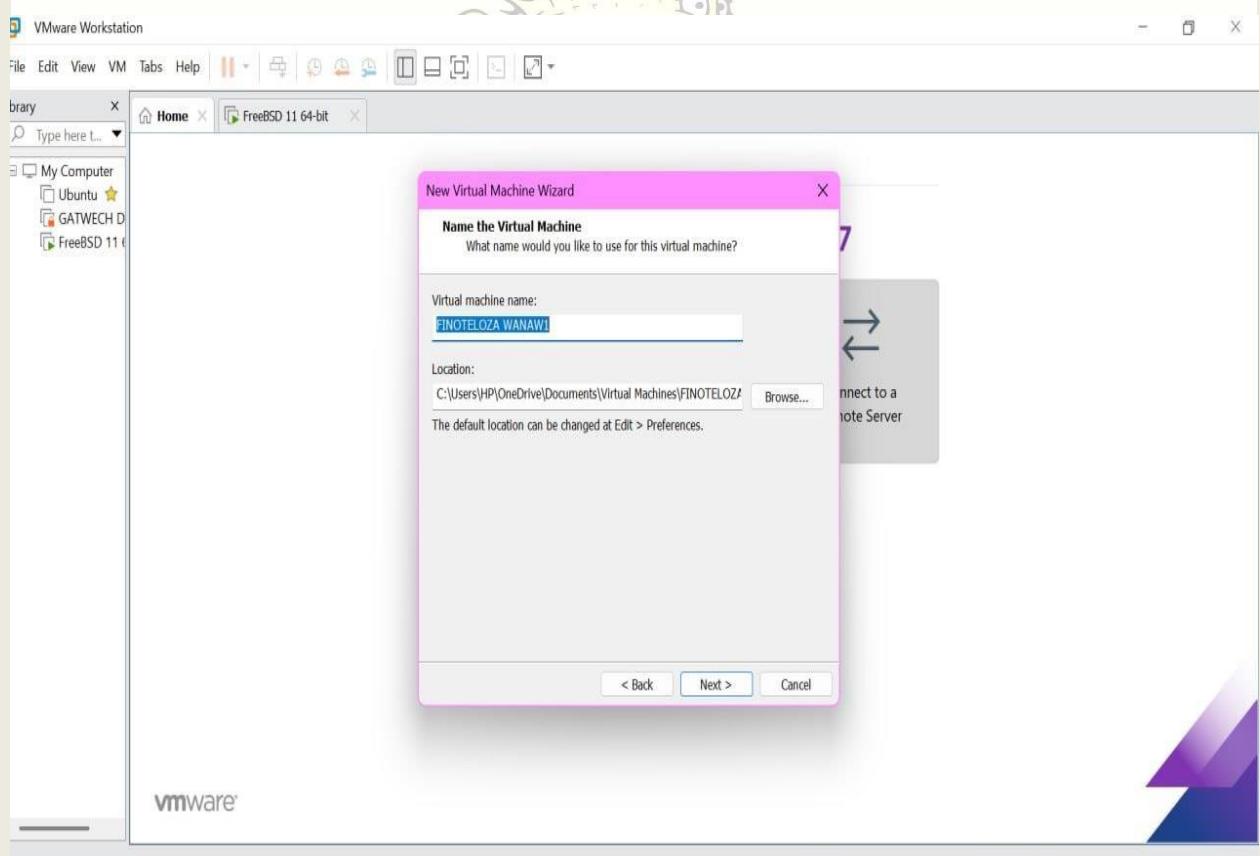


## 2. Select "Installer disc image file (iso)" → Browse and select Windows 11 ISO

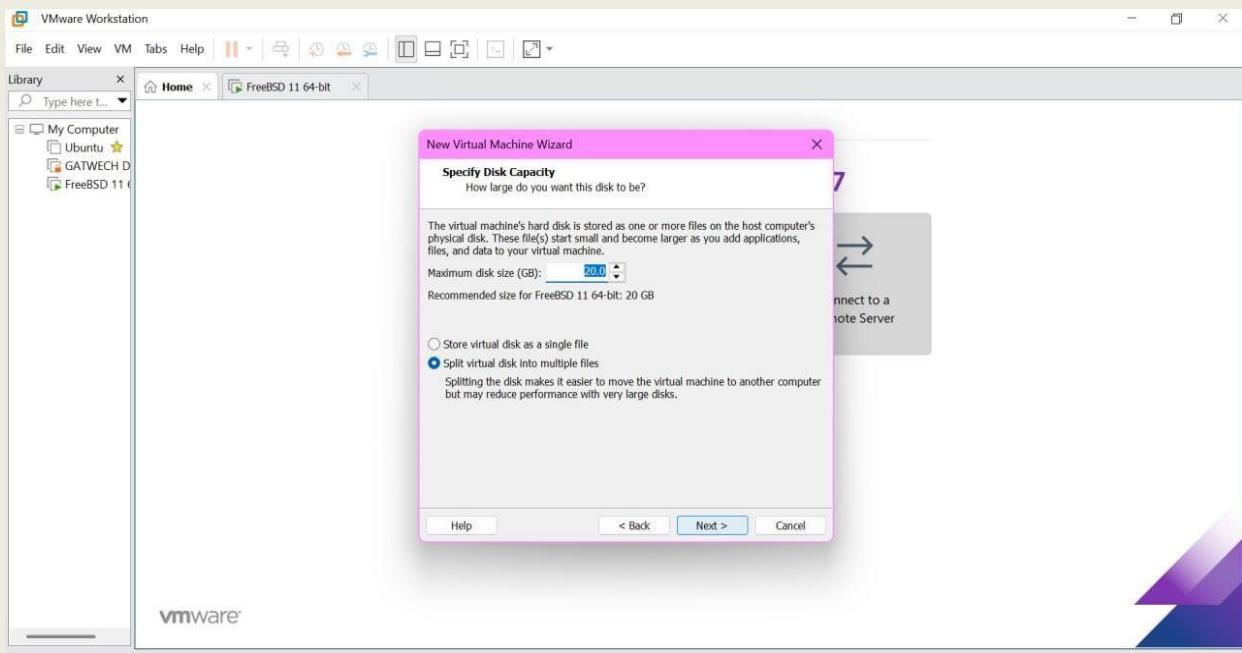




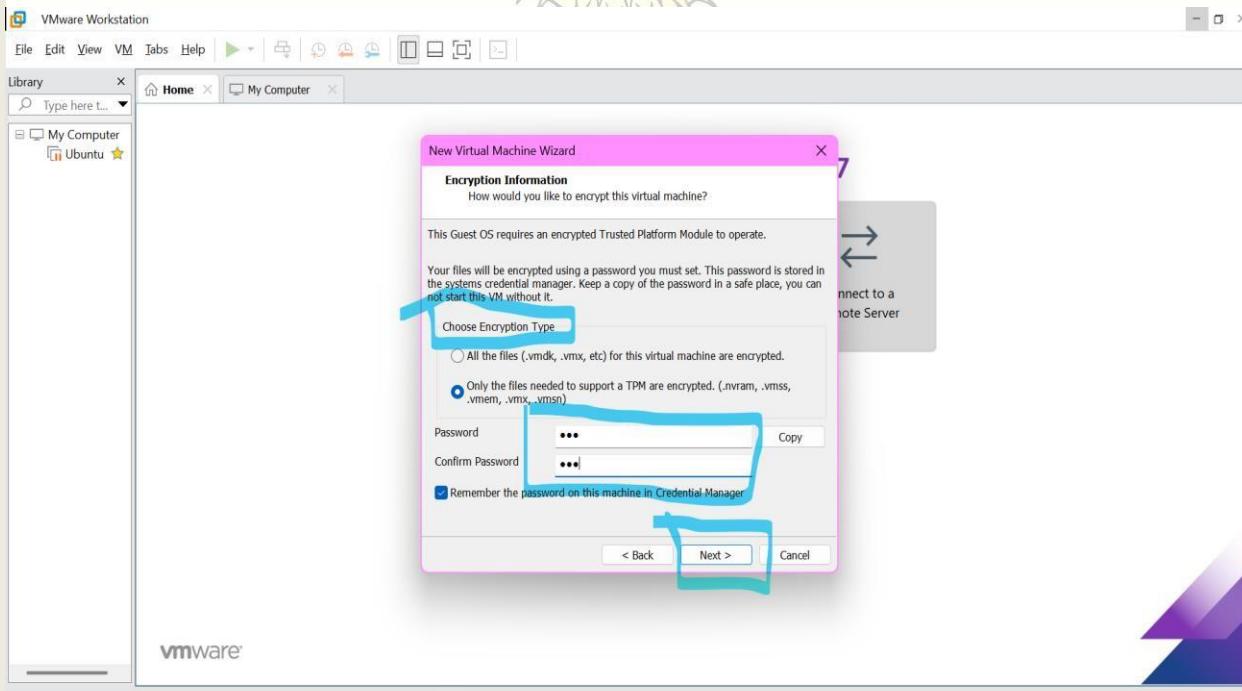
### 3. Set VM name (FINOTELOZA WANAW)



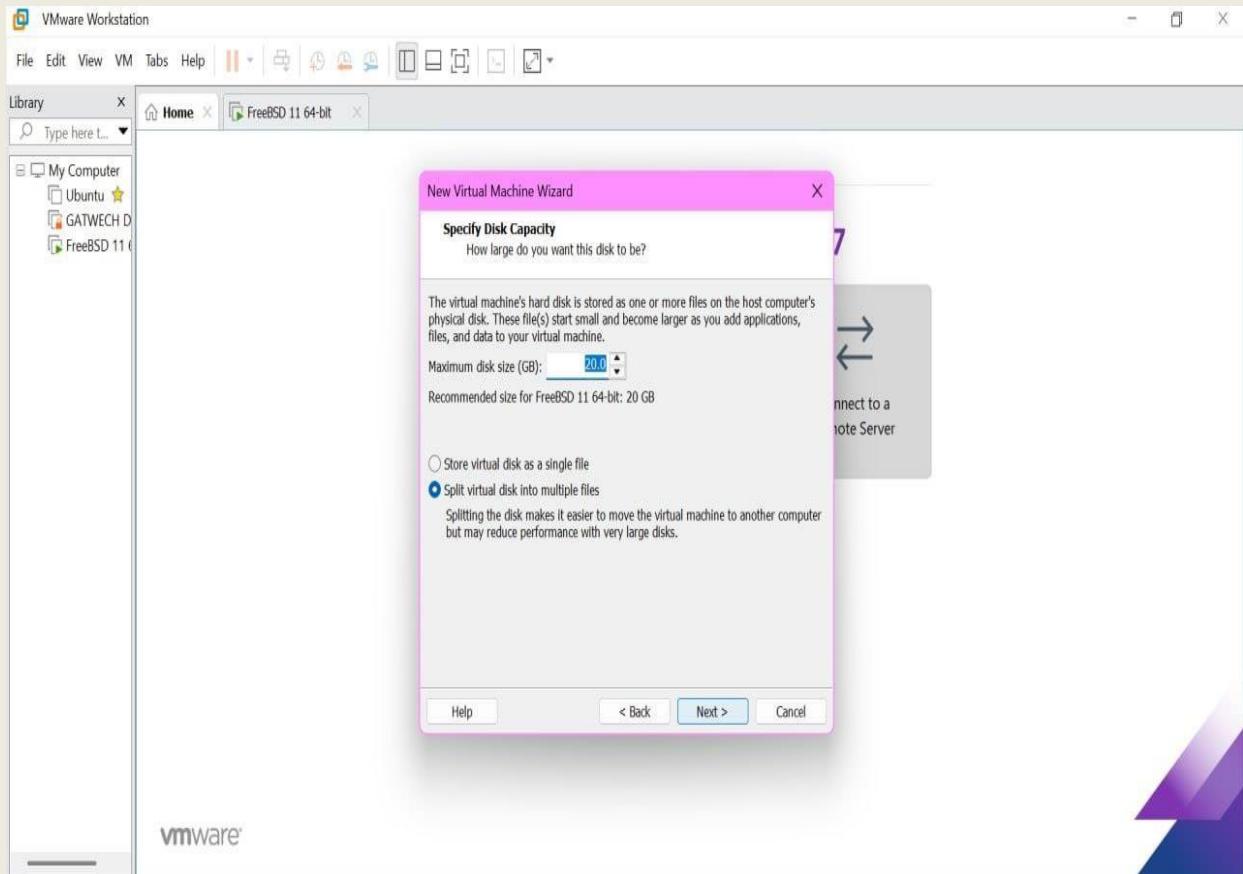
#### 4. Allocate RAM (4 GB or more)



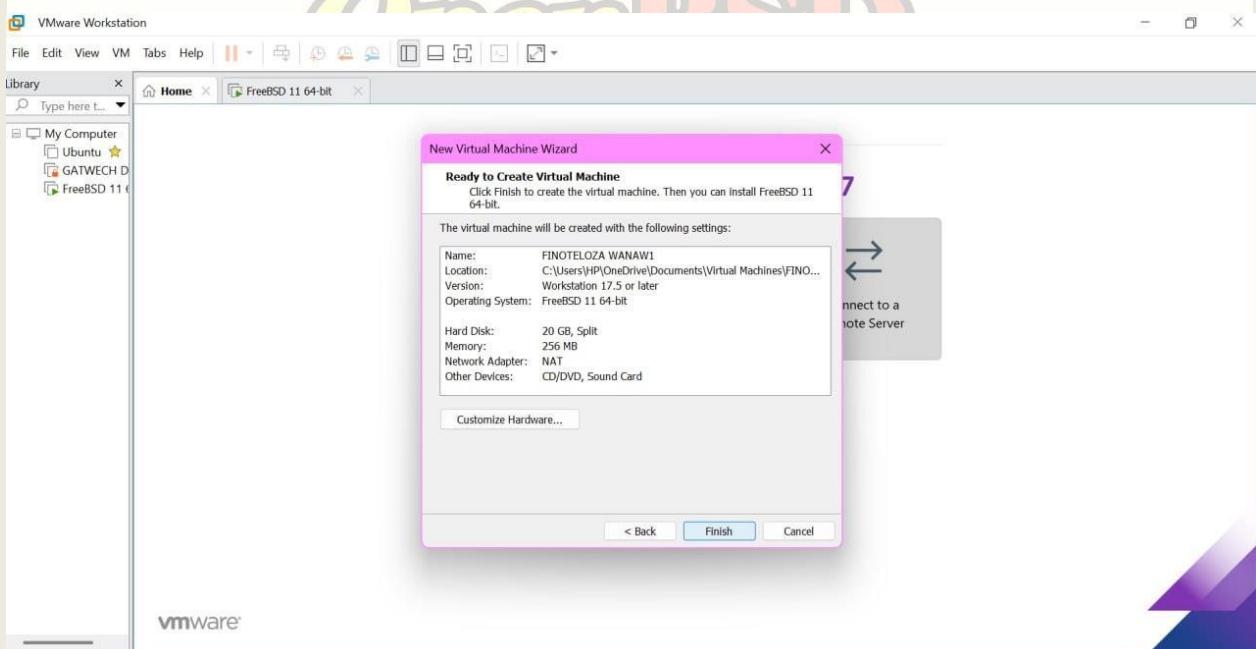
#### 5. Input password



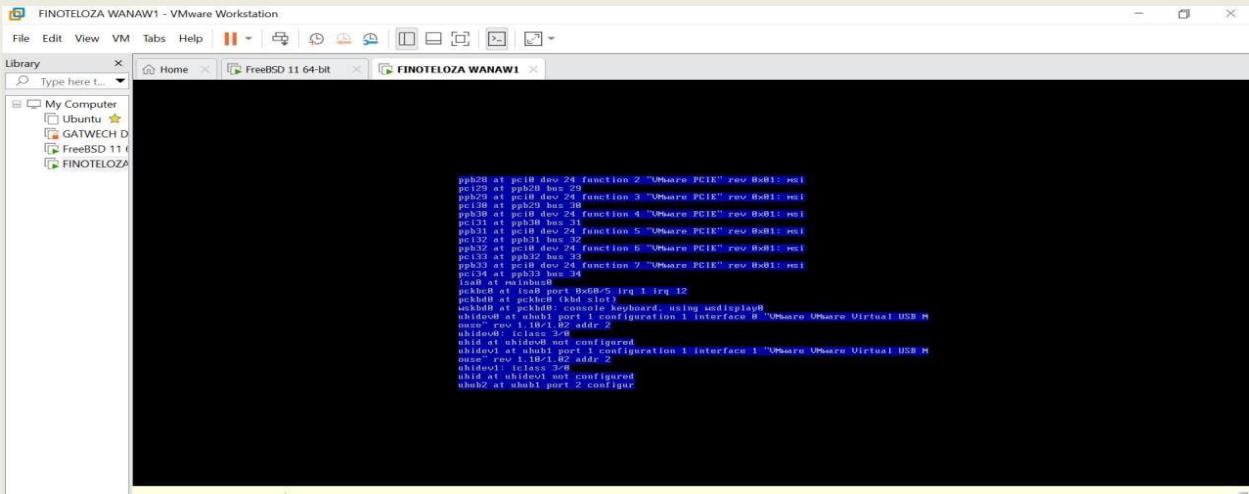
#### 6. Create a new virtual disk → 20 GB recommended



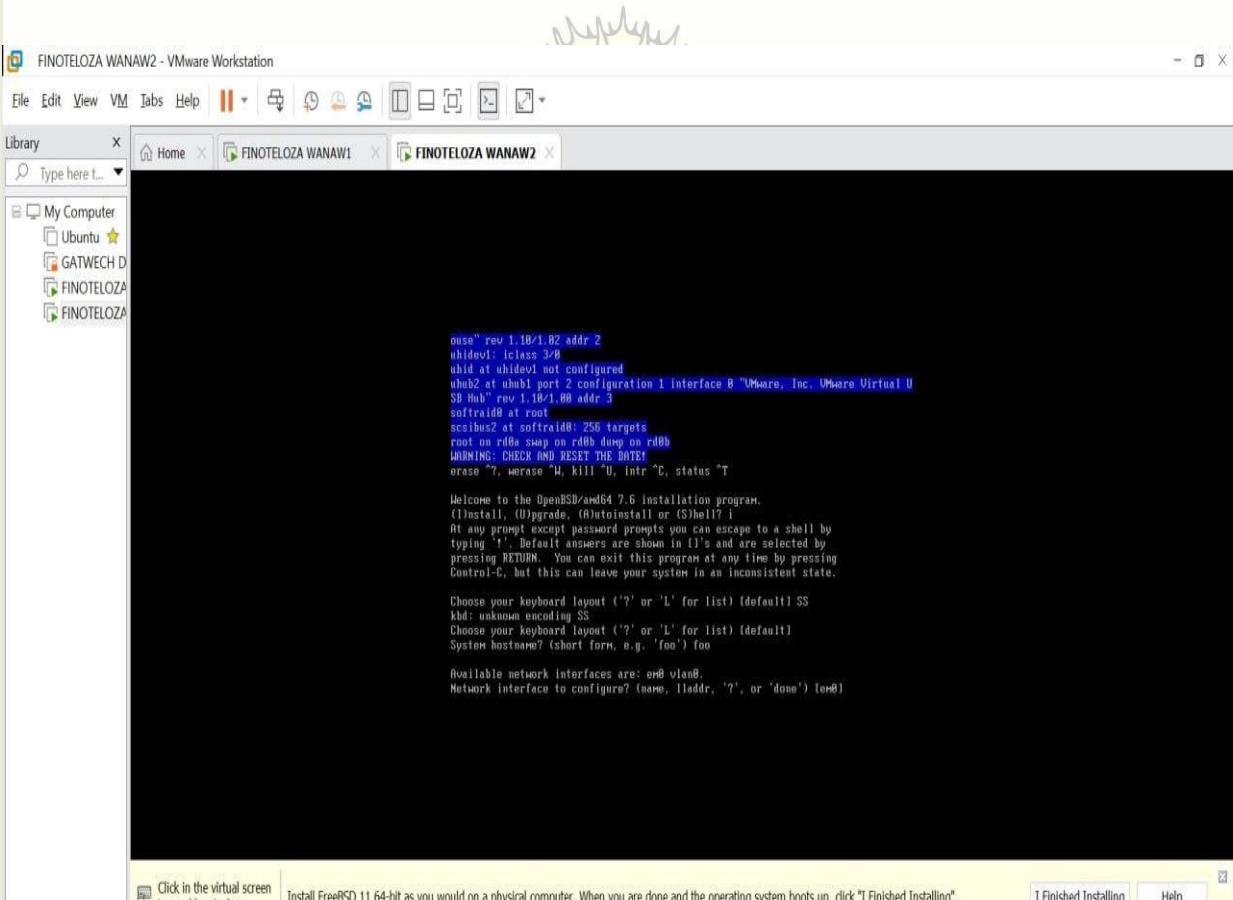
## 7. Finish Setup and power on VM



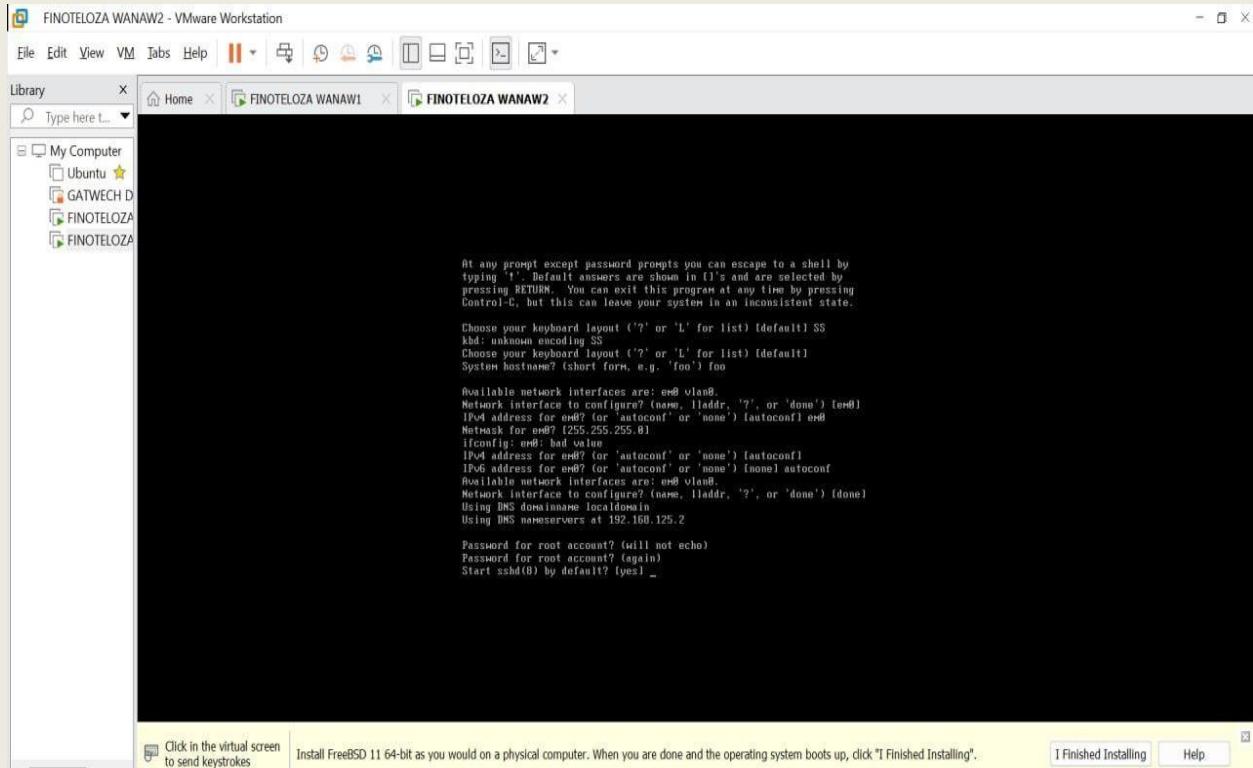
## Now the OpenBSD is booting



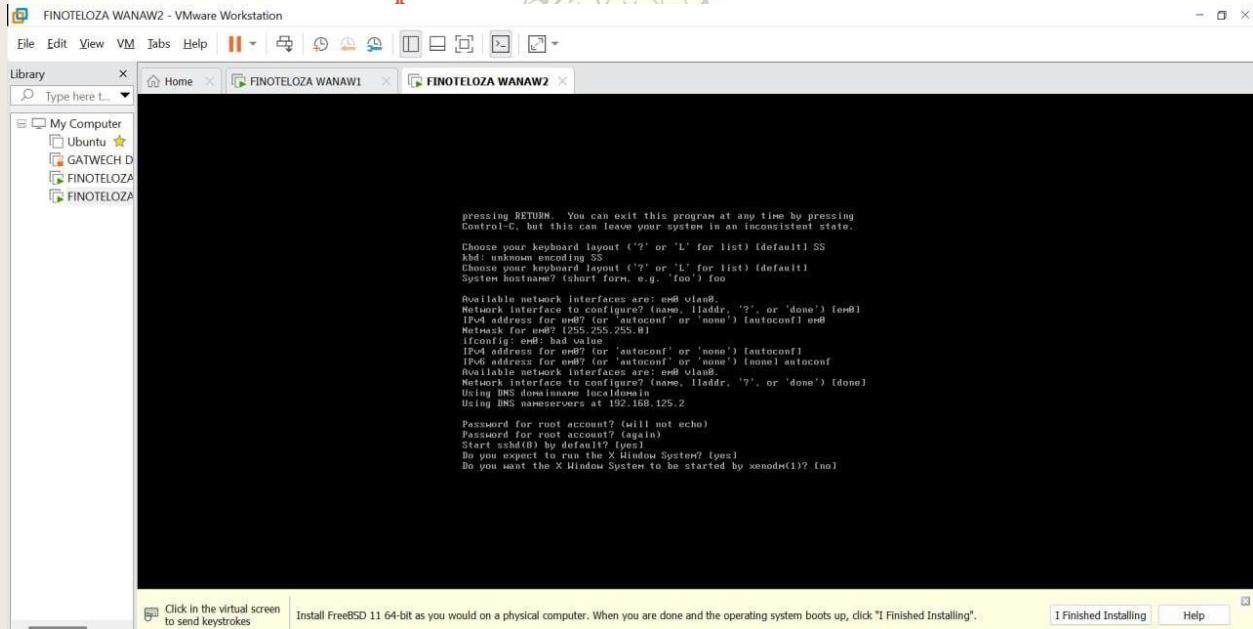
It will ask you to autoinstall and write I and click enter



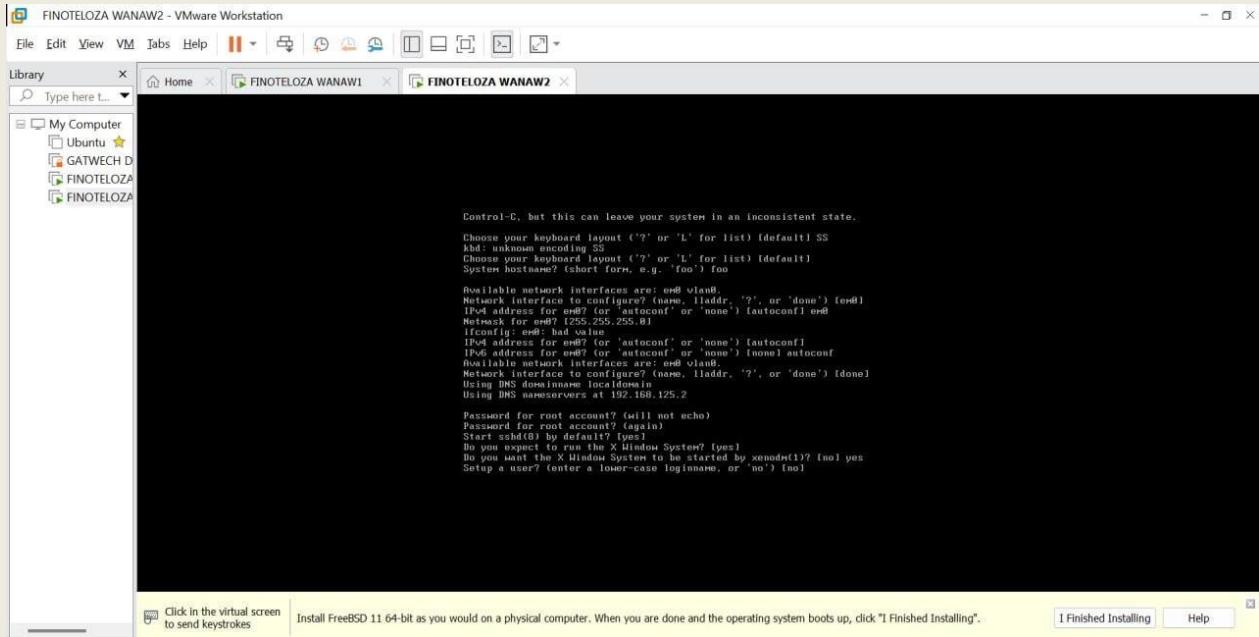
Now it ask me for the host name and will continue with default ("foo").



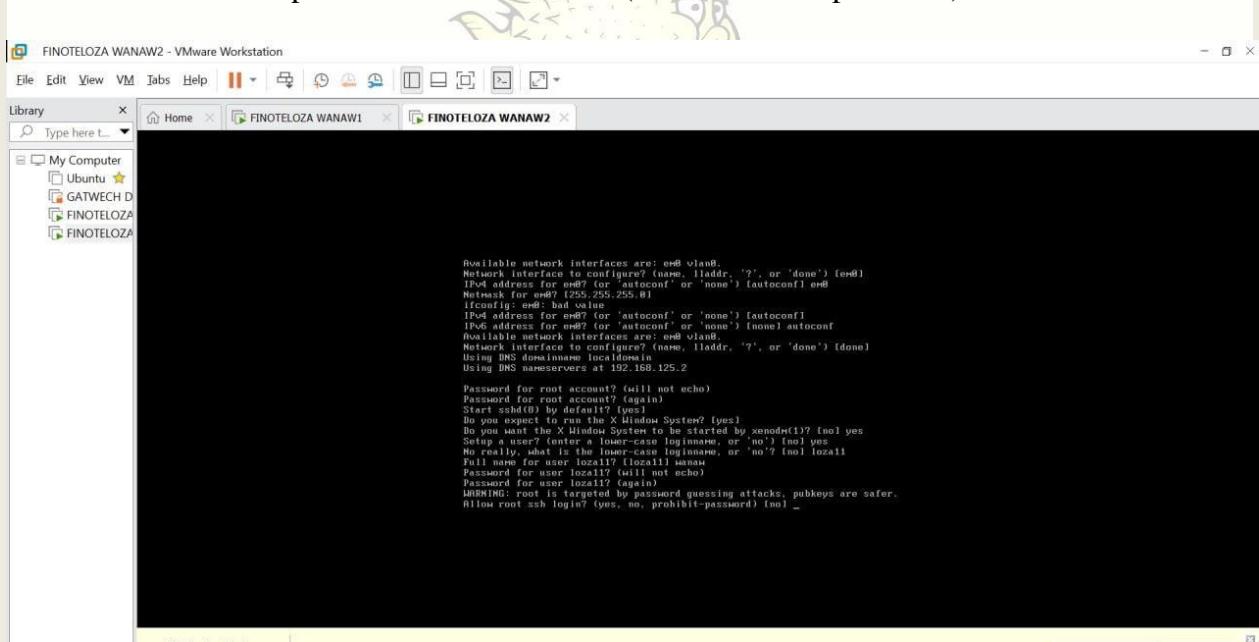
now it asks me for network ipv4 and I will continue with em0



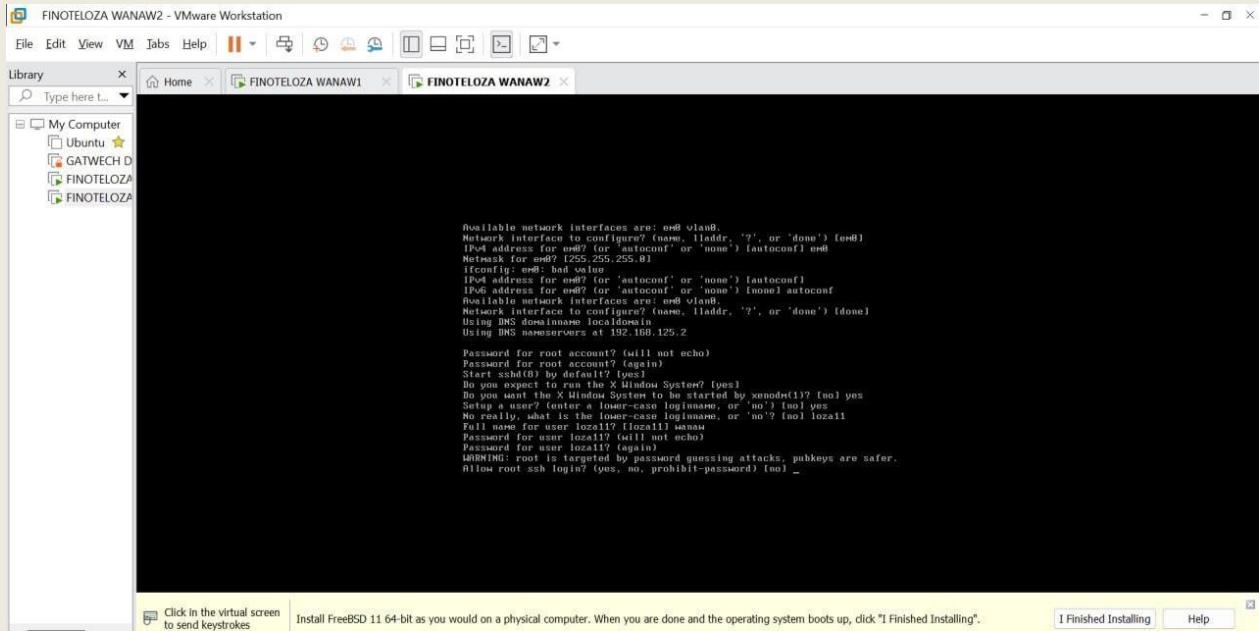
Now it ask me for ipv6 address and I will type the command autoconf and click enter



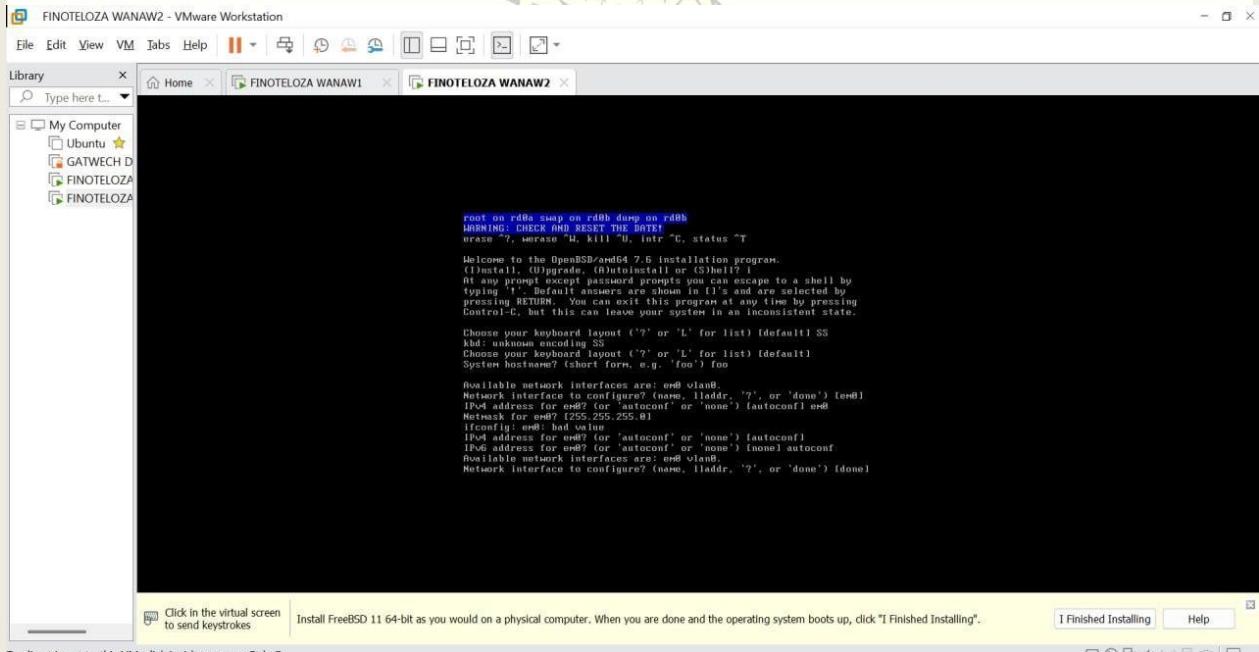
Now it ask me for the password of root account ( I have to enter password)



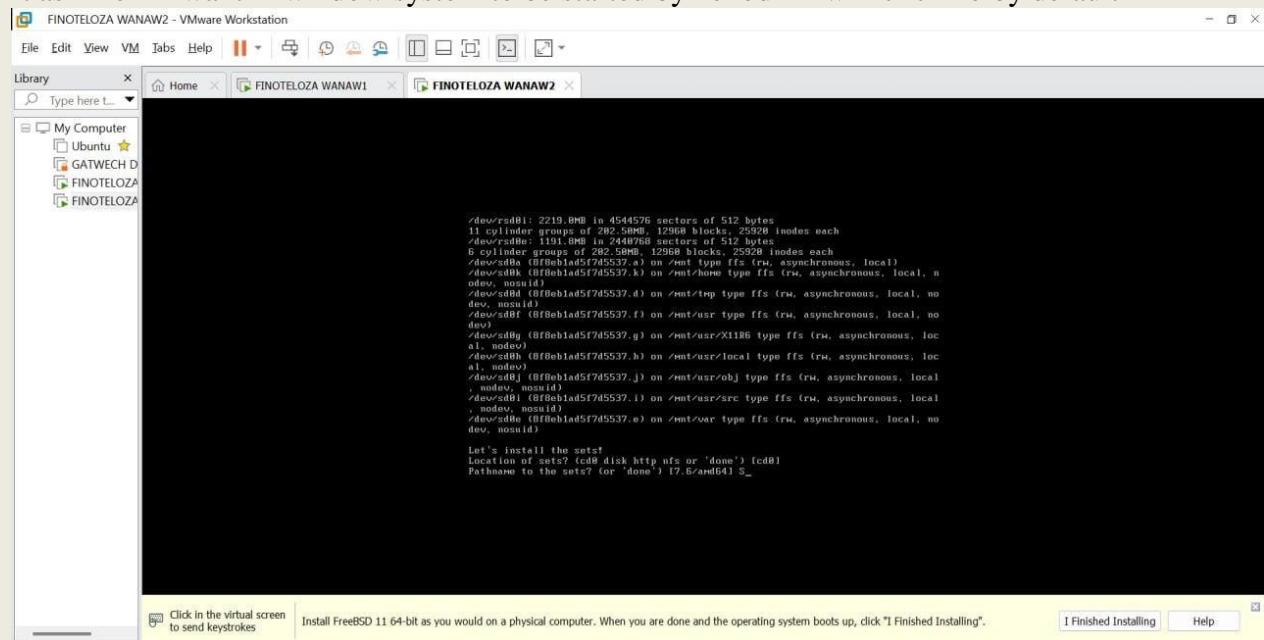
It ask me to start ssd by default and I have to click enter



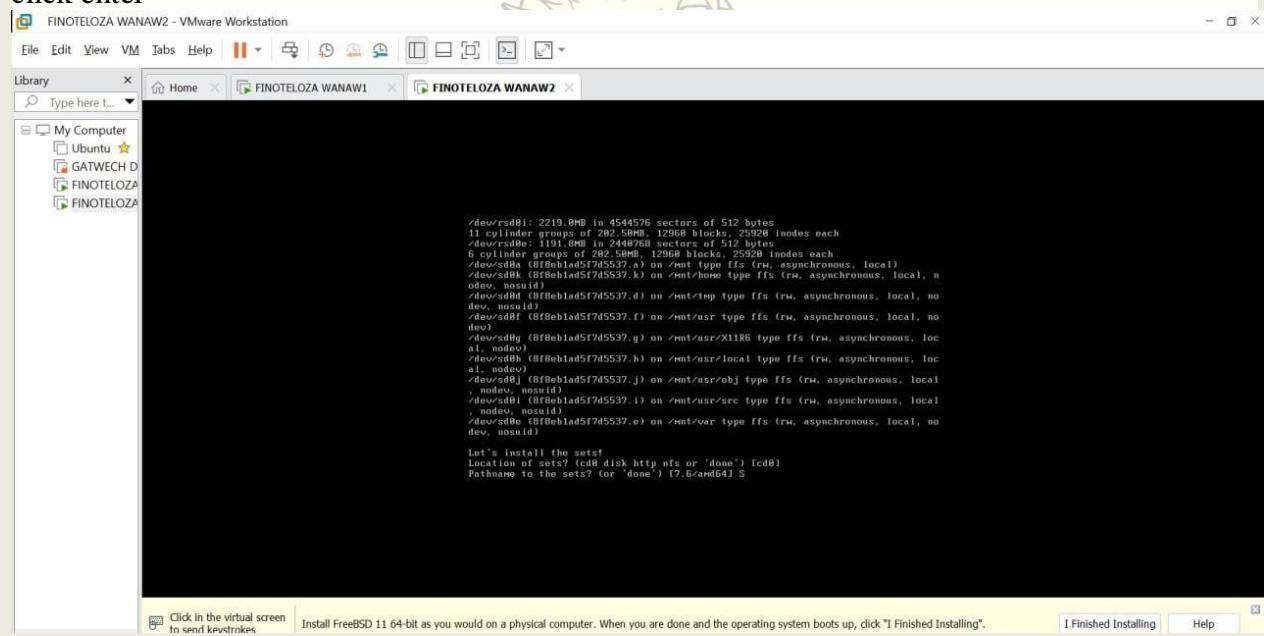
It ask me to run X window I have to click enter



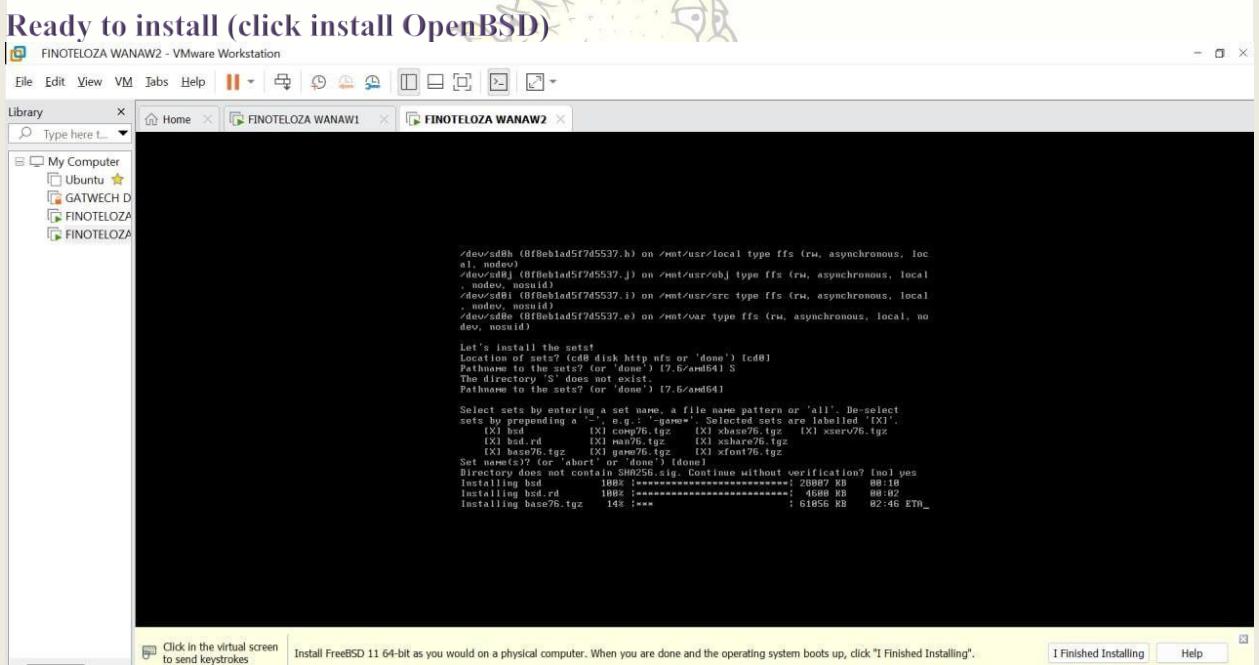
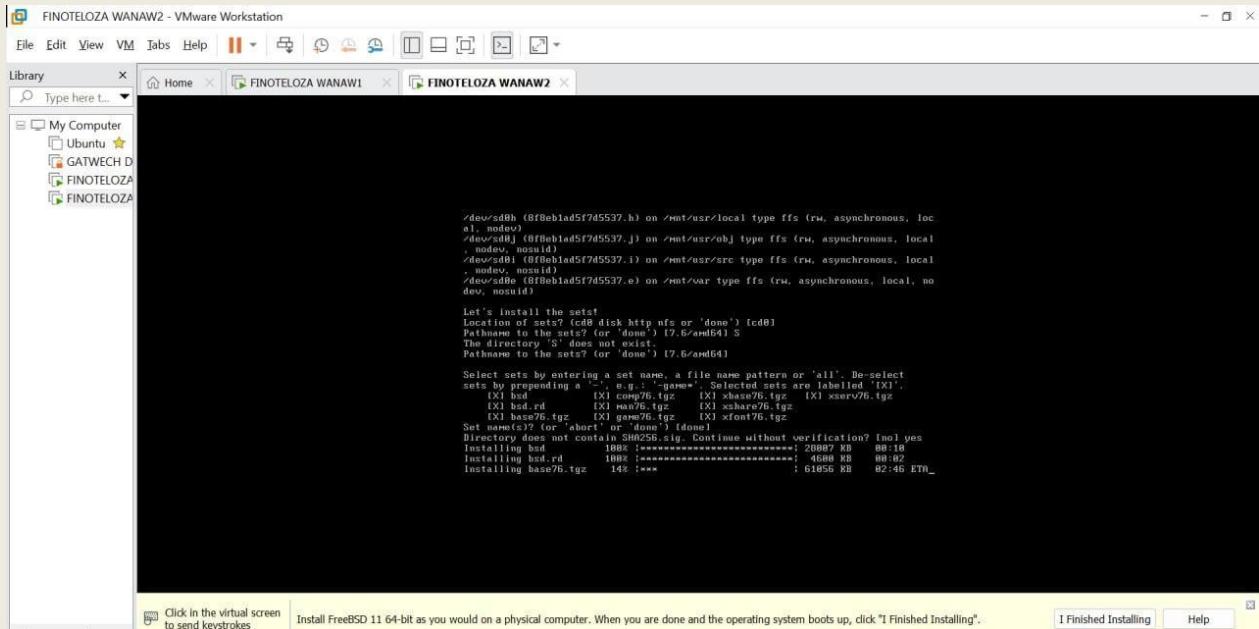
It ask me if I want X window system to be started by xenodm I will click no by default



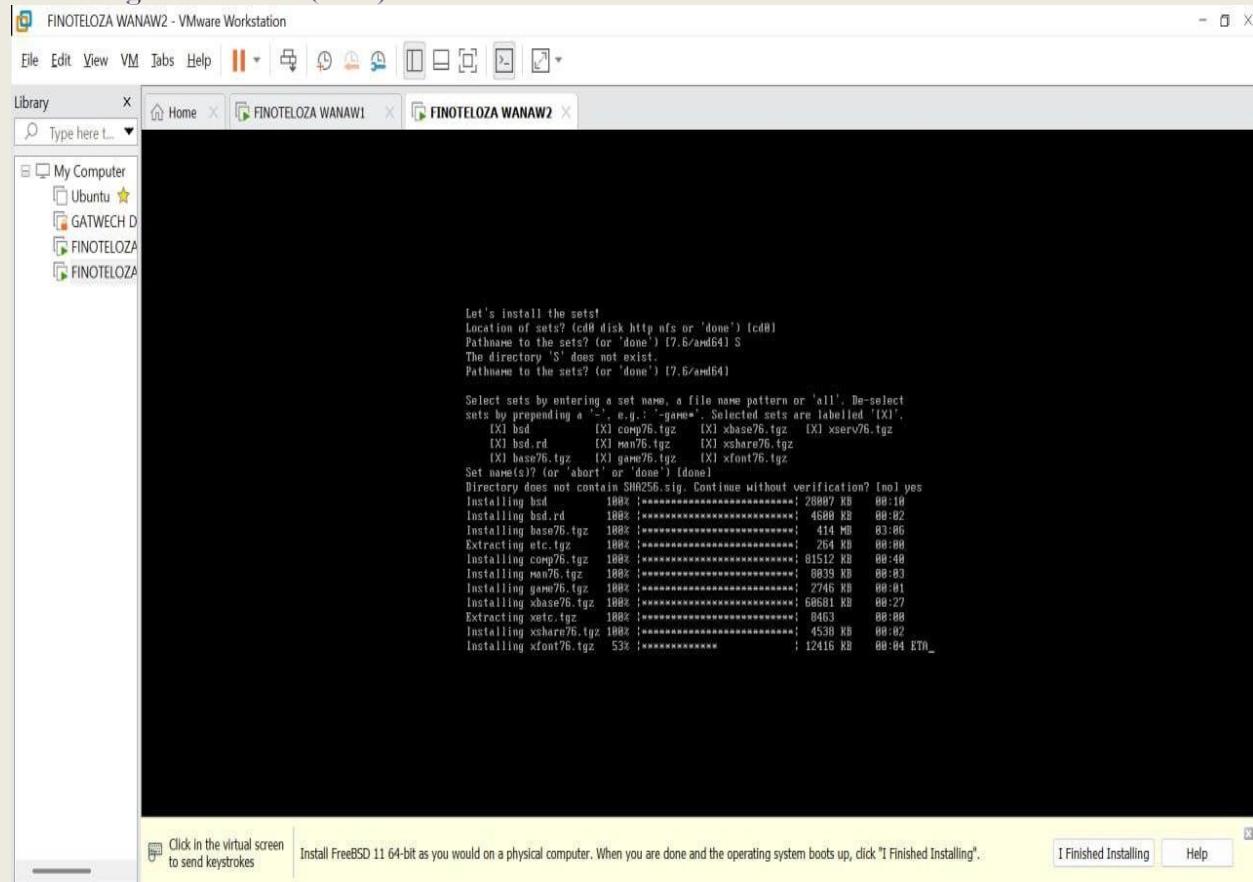
It ask me for the user name using lower case and I have to type finoteloza as my user name and click enter



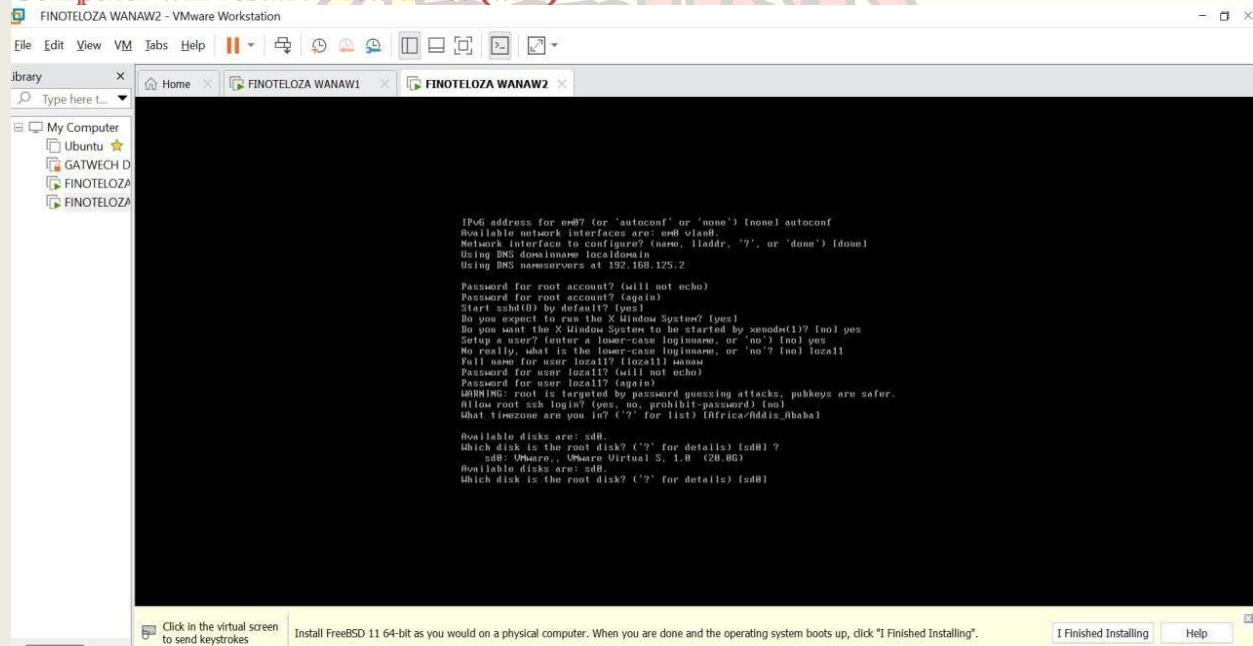
It ask for password of user name and I have to type my password (\*\*\*\*\*\*) and click enter and now it is ready to install all application and supportive kernel interface



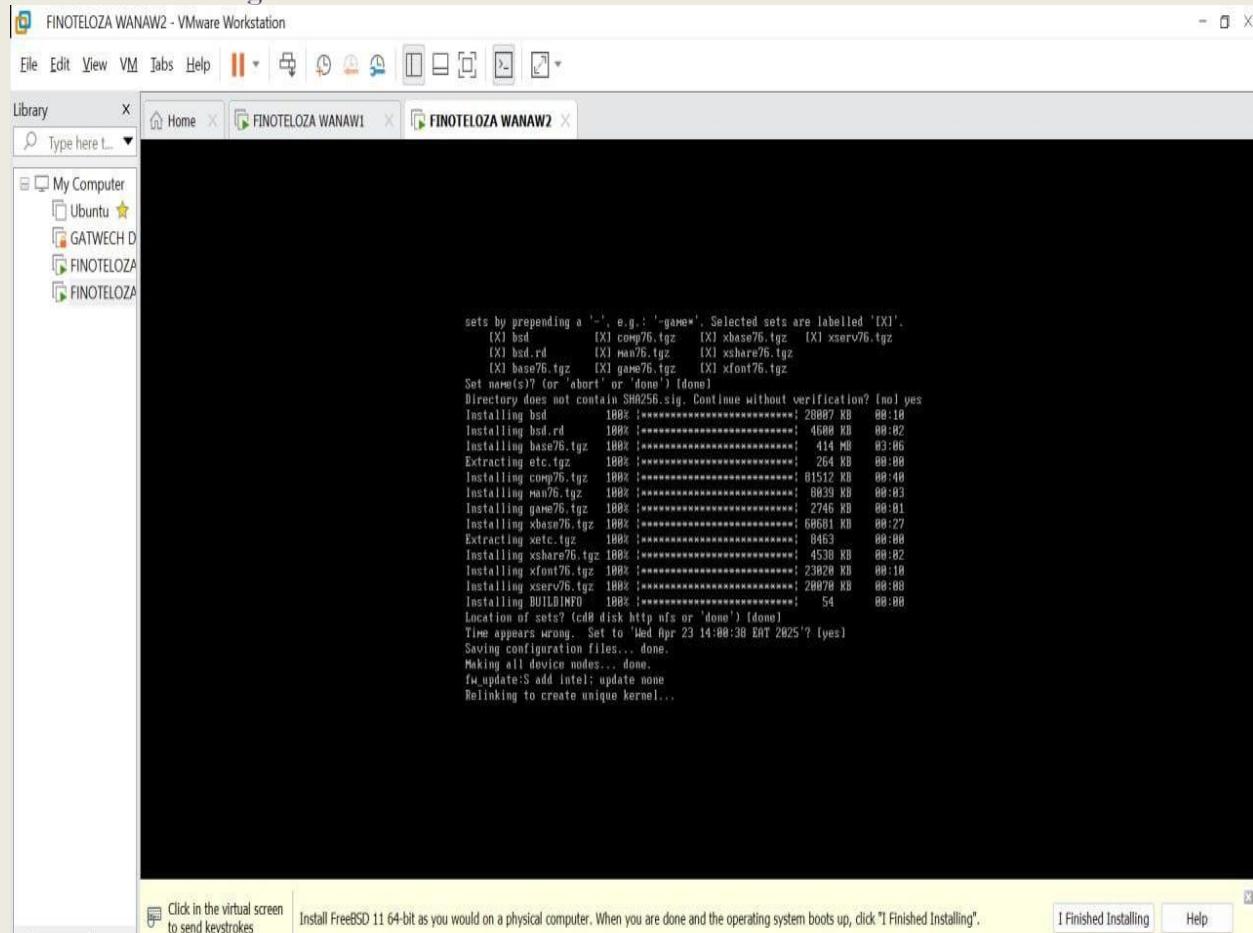
## Installing OPENBSD (wait).



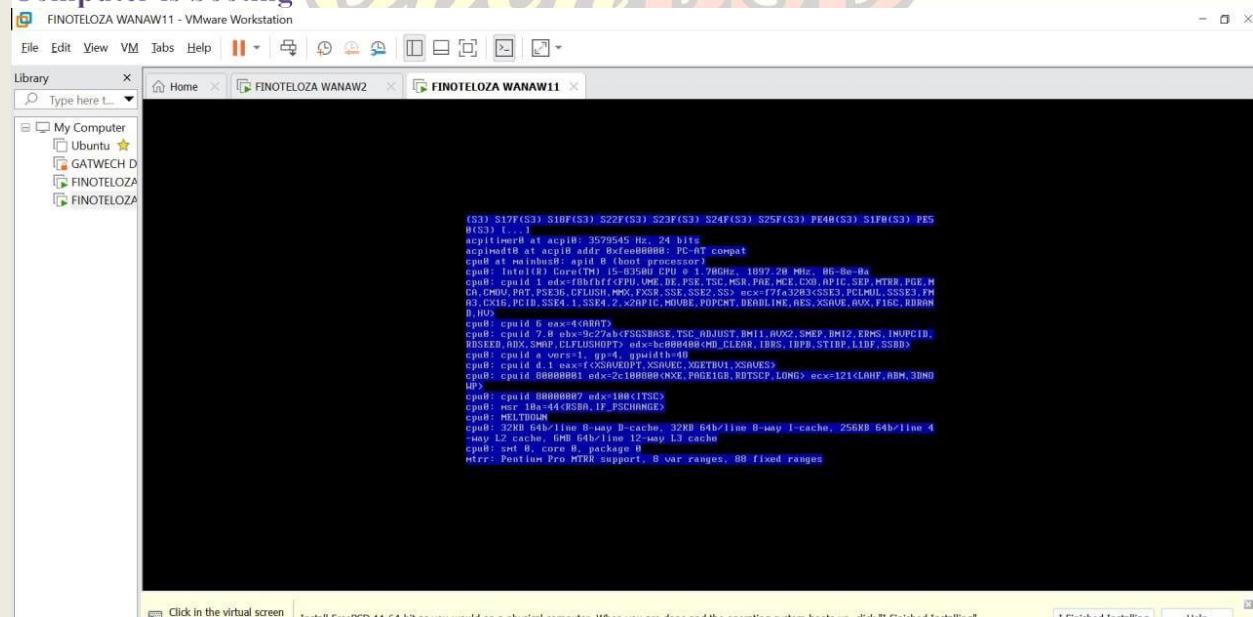
## Computer will restart a few times (wait)



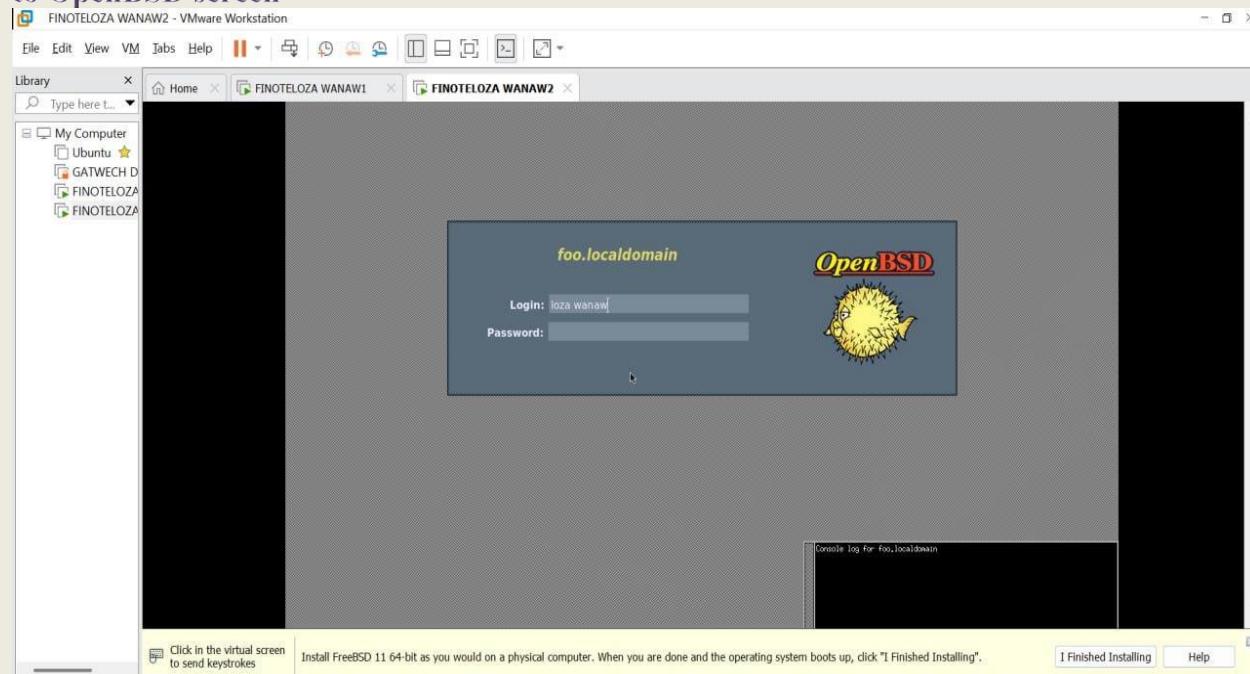
**Now it is relinking kernel with the virtual machine**



## Computer is booting



**It ask me for my user login info and password and I have to click enter and it will welcome to OpenBSD screen**



**Now my operating system has done installing and it's ready for working**

