

Experiment Title: To install Ubuntu Linux in Virtual environment.

Student Name: Parikshit sharama

Branch: CSE IOT

Semester: 3

Subject Name: operating system lab

UID: 19BCS4520

Section/Group IOT-1 G=A

Date of Performance: 7/30/2020

Subject Code: CSP-210

1. Aim/Overview of the practical: To install Ubuntu Linux in Virtual environment.

Task to be done: You must have internet to proceed.

You have to follow given instruction to install Ubuntu on your system

For convenience Red lines are marked on Images.

Goto this website and download vmware.

2. <https://www.vmware.com/in/products/workstation-pro/workstation-pro-evaluation.html>



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vmware

Cloud Solutions Products Support & Services Downloads Partners Company

Products > Workstation Pro > Try VMware Workstation Pro

VMware Workstation 15.5 Pro

VMware Workstation Pro is the industry standard for running multiple operating systems on a single Linux or Windows PC.

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Workstation 15.5 Pro for Linux
Download Now >

AdChoices

ENG IN 7:46 PM 7/27/2020

Click on Download now

Goto to this website to download Ubuntu.

<https://ubuntu.com/download/desktop>



Click on Donwload and your donwload will start automatically.

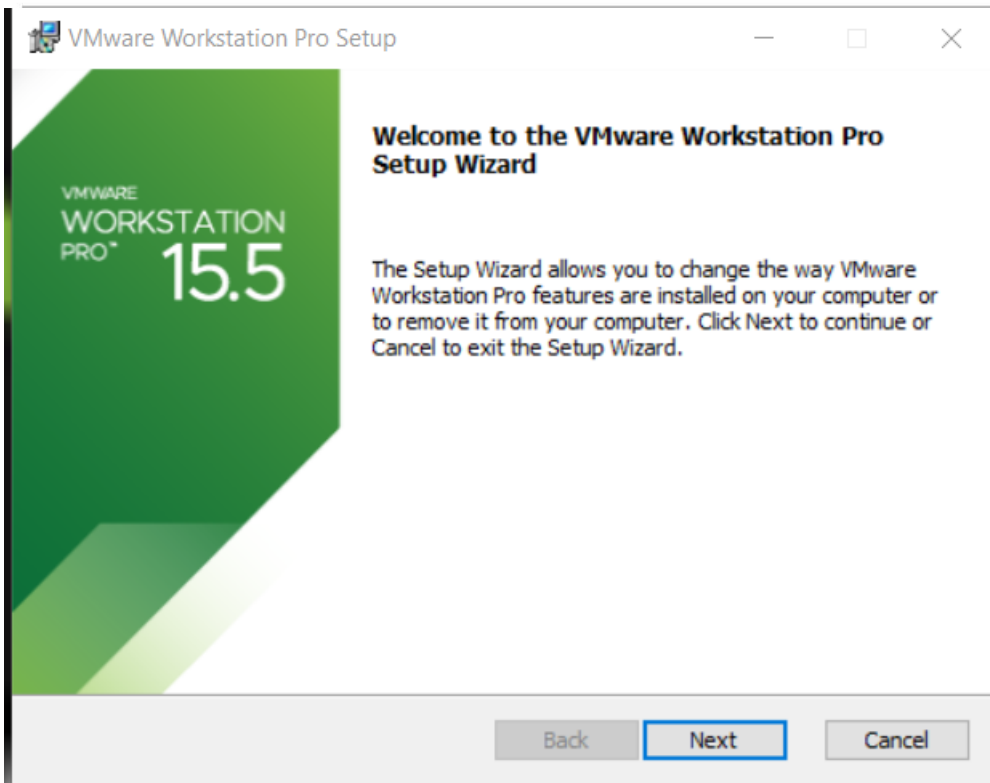
After download open Vmware first And proceed with following instructions.



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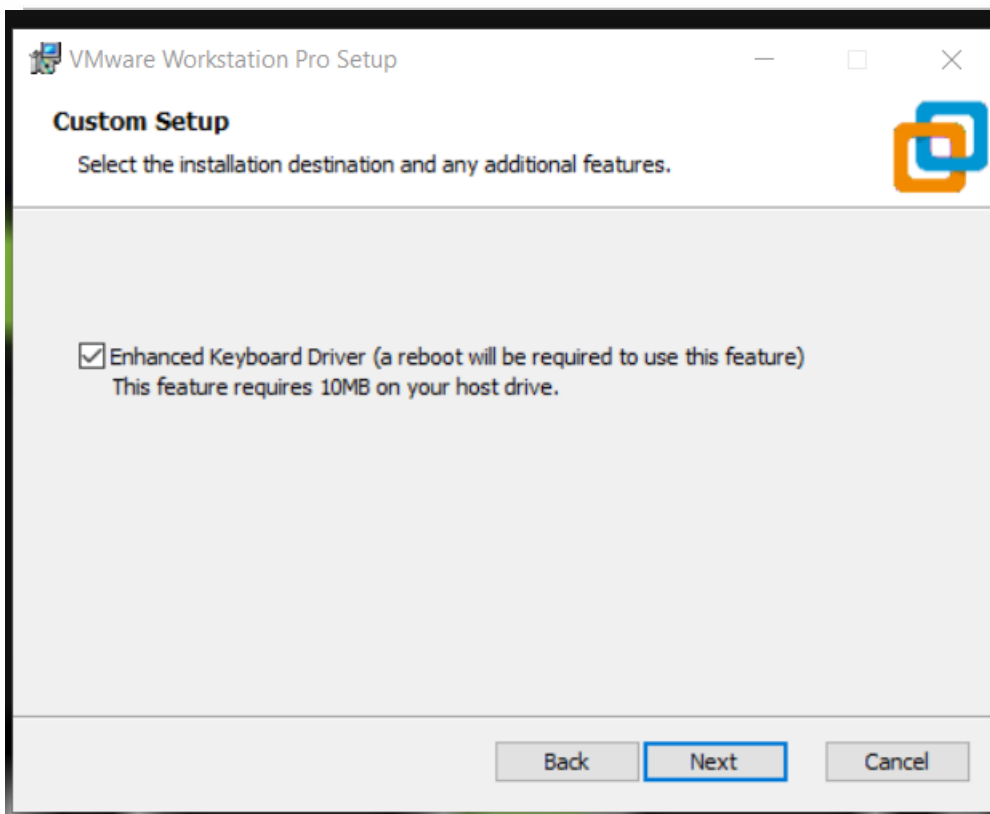
Click on the next.



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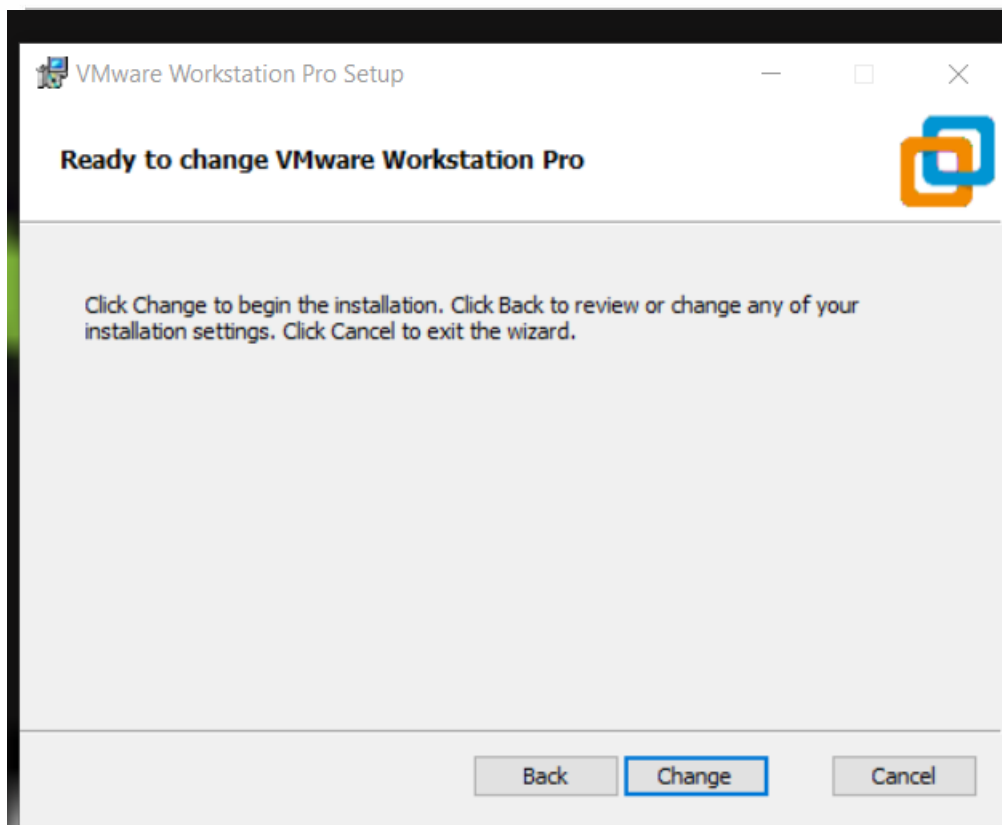
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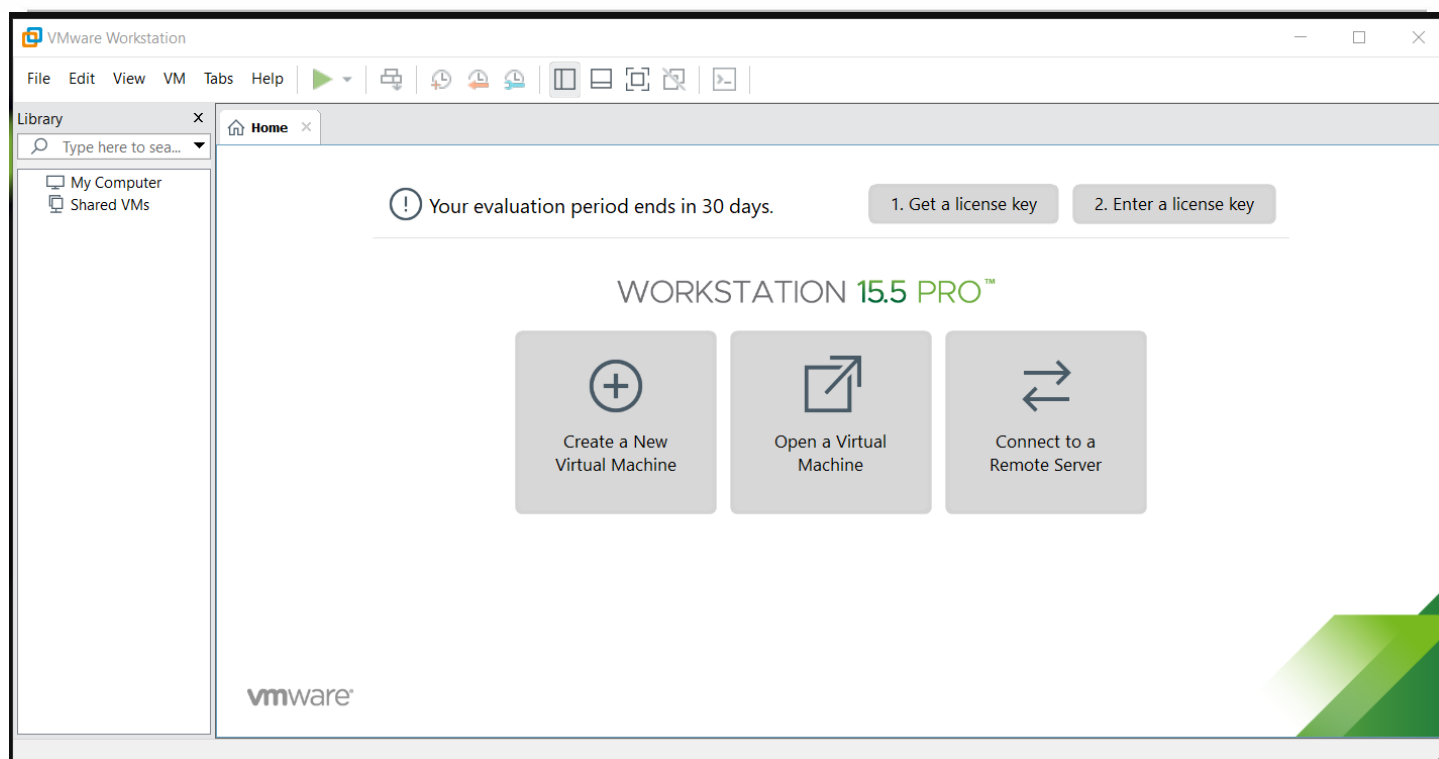


Click on the change.



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Click on Files tab.



Click on the next.



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New Virtual Machine Wizard

Guest Operating System Installation

A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

☐ Installer disc:

No drives available

☐ Installer disc image file (iso):

Browse...

☒ I will install the operating system later.

The virtual machine will be created with a blank hard disk.

Help < Back Next > Cancel

Click on the next.



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New Virtual Machine Wizard

Select a Guest Operating System
Which operating system will be installed on this virtual machine?

Guest operating system

☐ Microsoft Windows
☒ Linux
☐ VMware ESX
☐ Other

Version

Ubuntu

Help < Back Next > Cancel

Click on linux.

New Virtual Machine Wizard

Select a Guest Operating System
Which operating system will be installed on this virtual machine?

Guest operating system

☐ Microsoft Windows
☒ Linux
☐ VMware ESX
☐ Other

Version

Ubuntu 64-bit

Help < Back Next > Cancel

select ubuntu 64 bit.



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New Virtual Machine Wizard

Ready to Create Virtual Machine

Click Finish to create the virtual machine. Then you can install Ubuntu 64-bit.

The virtual machine will be created with the following settings:









Name:	Ubuntu 64-bit
Location:	C:\Users\aajai\Documents\Virtual Machines\Ubuntu 64-bit
Version:	Workstation 15.x
Operating System:	Ubuntu 64-bit
Hard Disk:	20 GB, Split
Memory:	2048 MB
Network Adapter:	NAT
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer, Sound C...

Customize Hardware...

< Back Finish Cancel

click on customize hardware

Hardware

Device	Summary
 Memory	2 GB
 Processors	2
 New CD/DVD (SATA)	Auto detect
 Network Adapter	NAT
 USB Controller	Present
 Sound Card	Auto detect
 Printer	Present
 Display	Auto detect

Add...

Remove

Device status

☐ Connected

☒ Connect at power on

Connection

☒ Use physical drive:

Auto detect

☐ Use ISO image file:

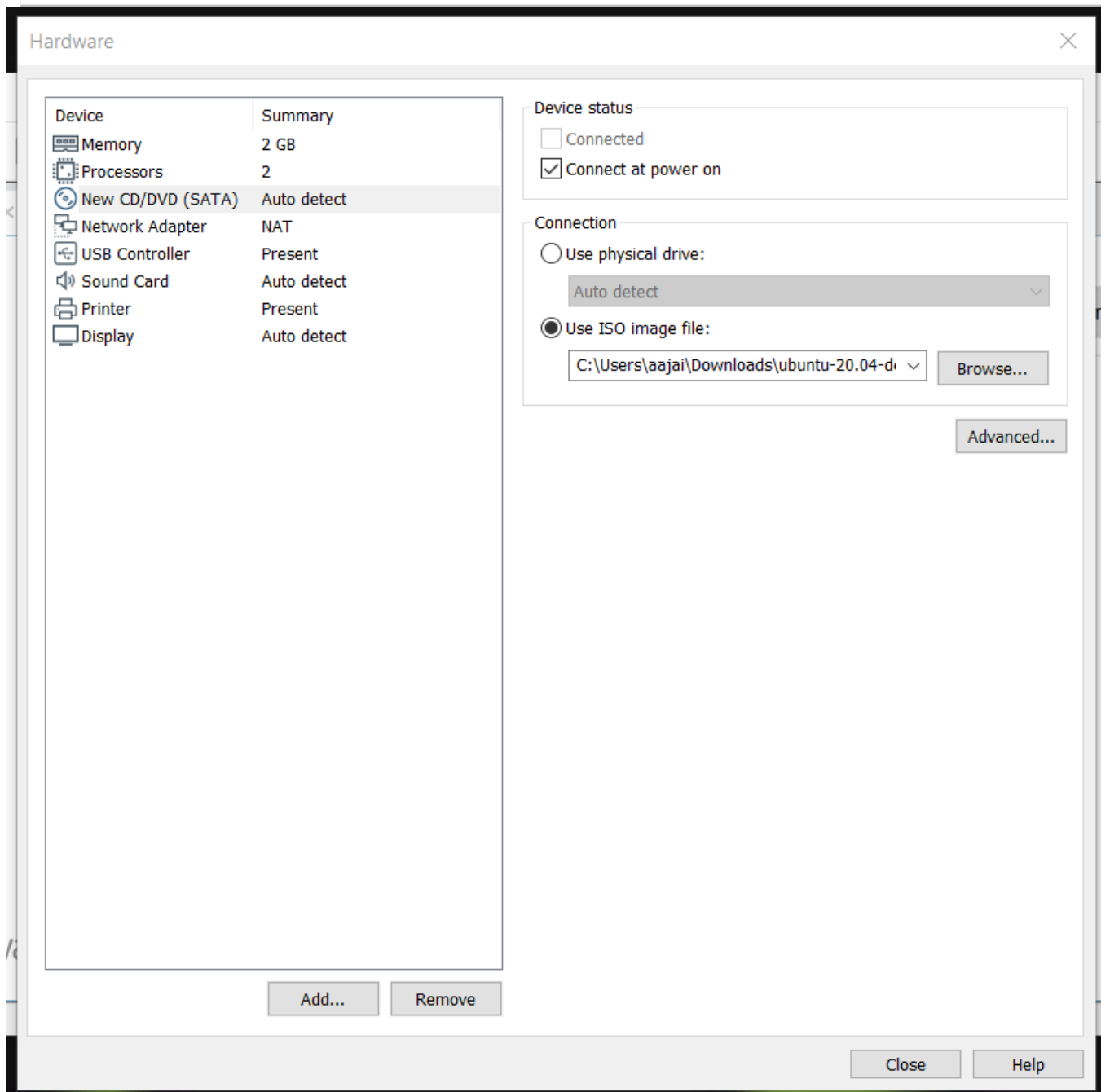
Browse...

Advanced...

Close

Help

Click on CD/DVD.



Click on ISO image file and then browse your ubuntu in your downloads.



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New Virtual Machine Wizard

Ready to Create Virtual Machine

Click Finish to create the virtual machine. Then you can install Ubuntu 64-bit.

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Name:	Ubuntu 64-bit
Location:	C:\Users\aaajai\Documents\Virtual Machines\Ubuntu 64-bit
Version:	Workstation 15.x
Operating System:	Ubuntu 64-bit
Hard Disk:	20 GB, Split
Memory:	2048 MB
Network Adapter:	NAT
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer, Sound C...

Customize Hardware...

< Back Finish Cancel

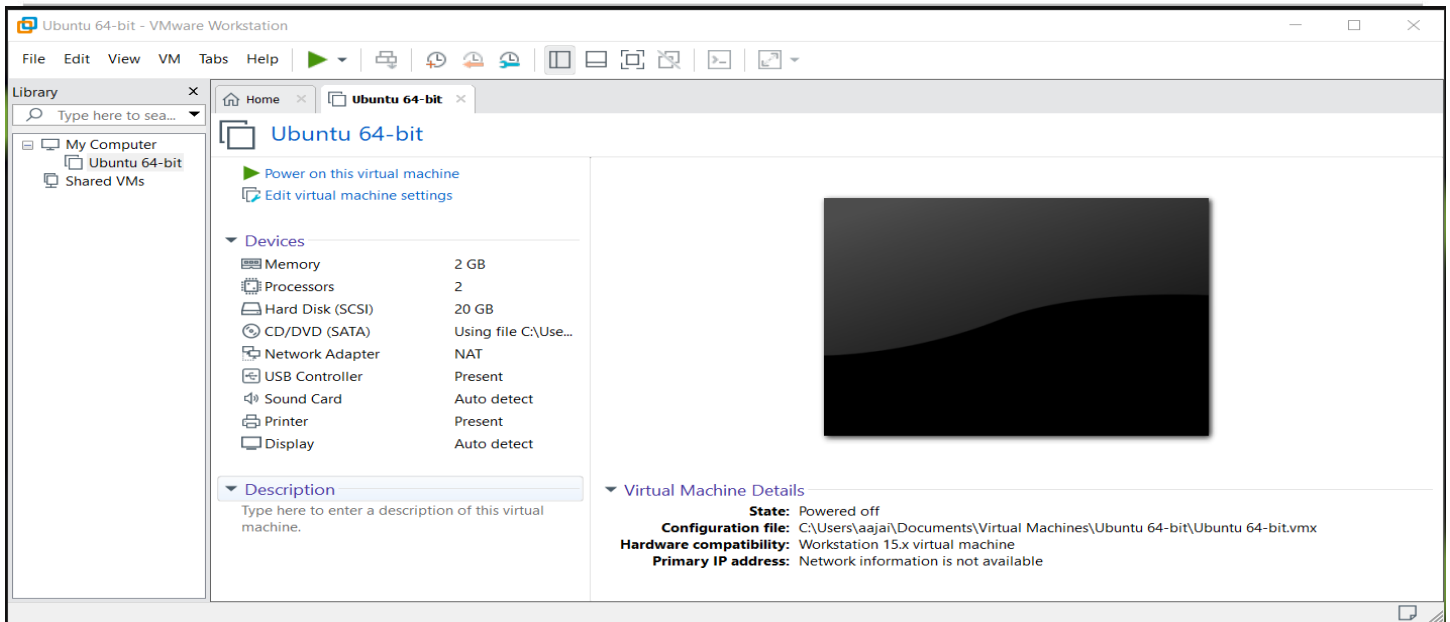
Click on finish.



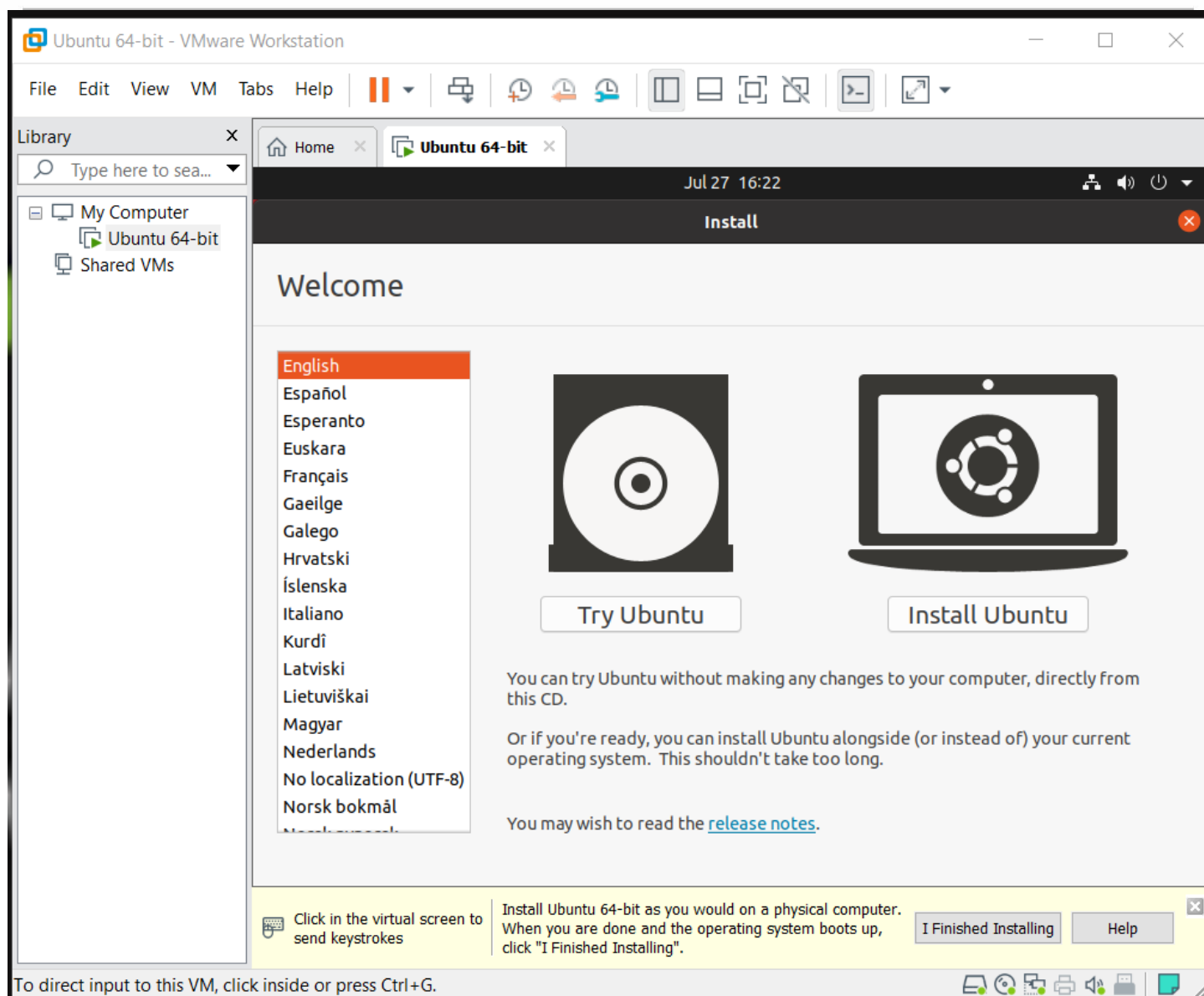
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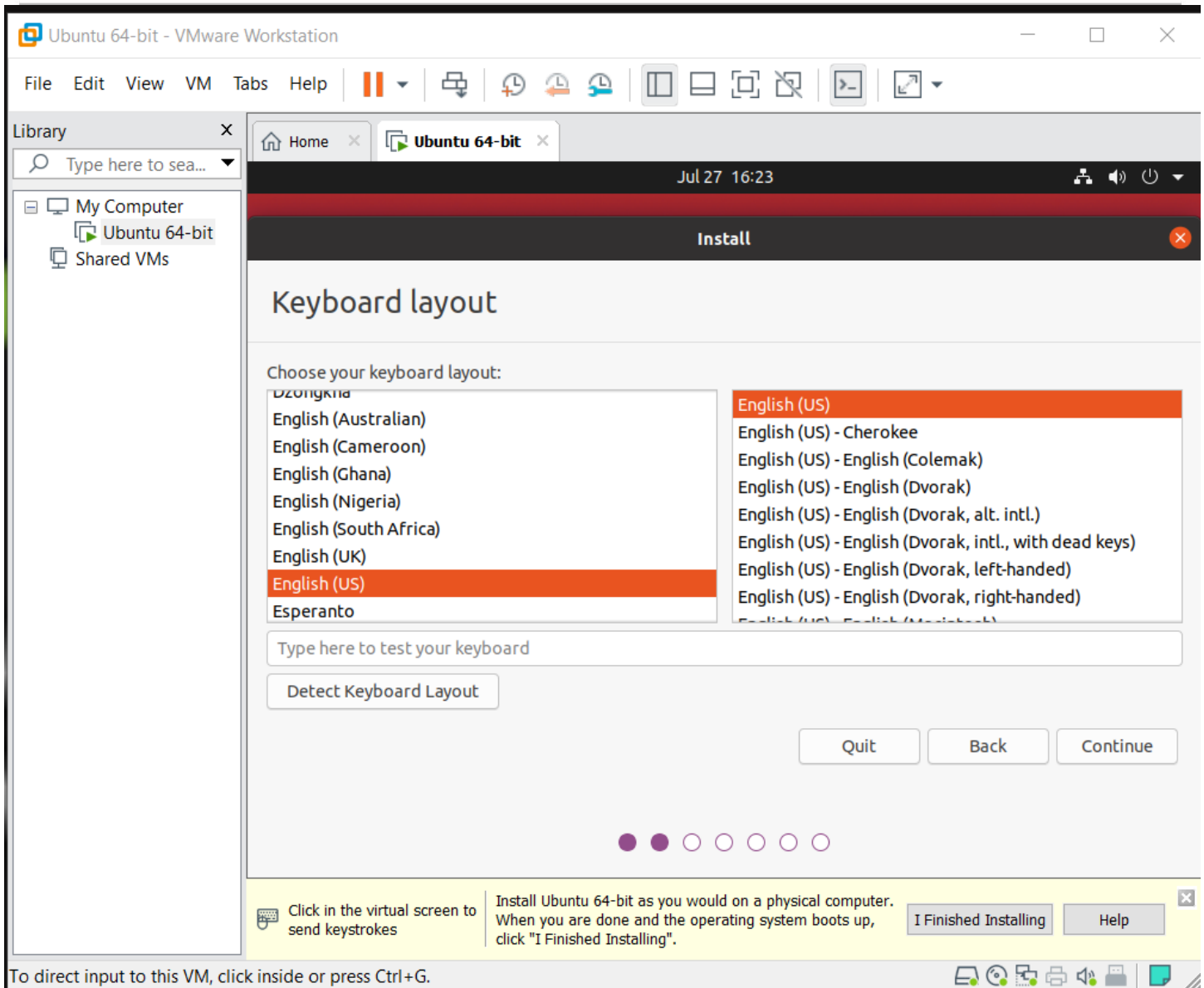
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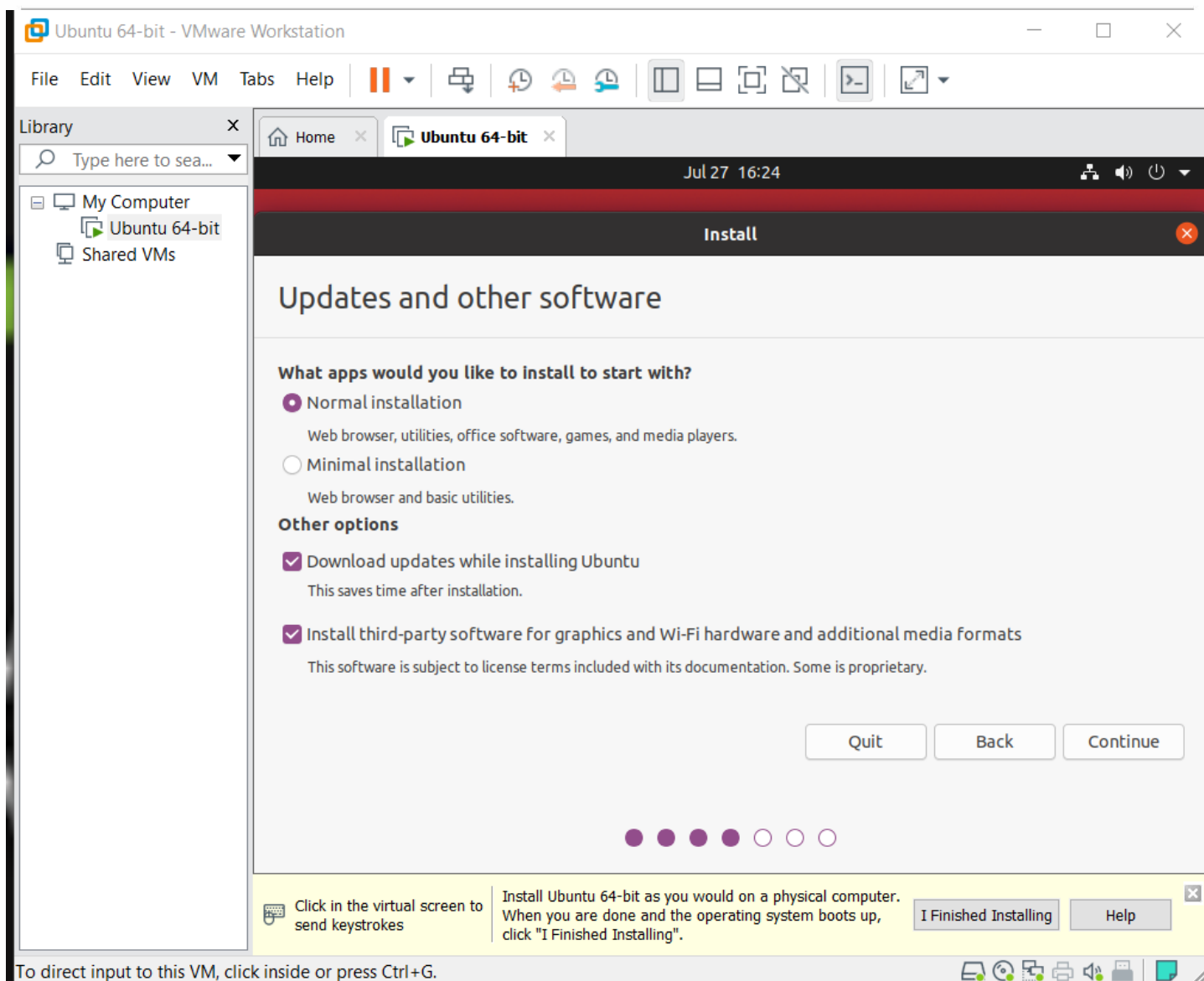
Click on Power on this virtual machine.



Select English and click on install ubuntu.



Select English(US) from both the lists.



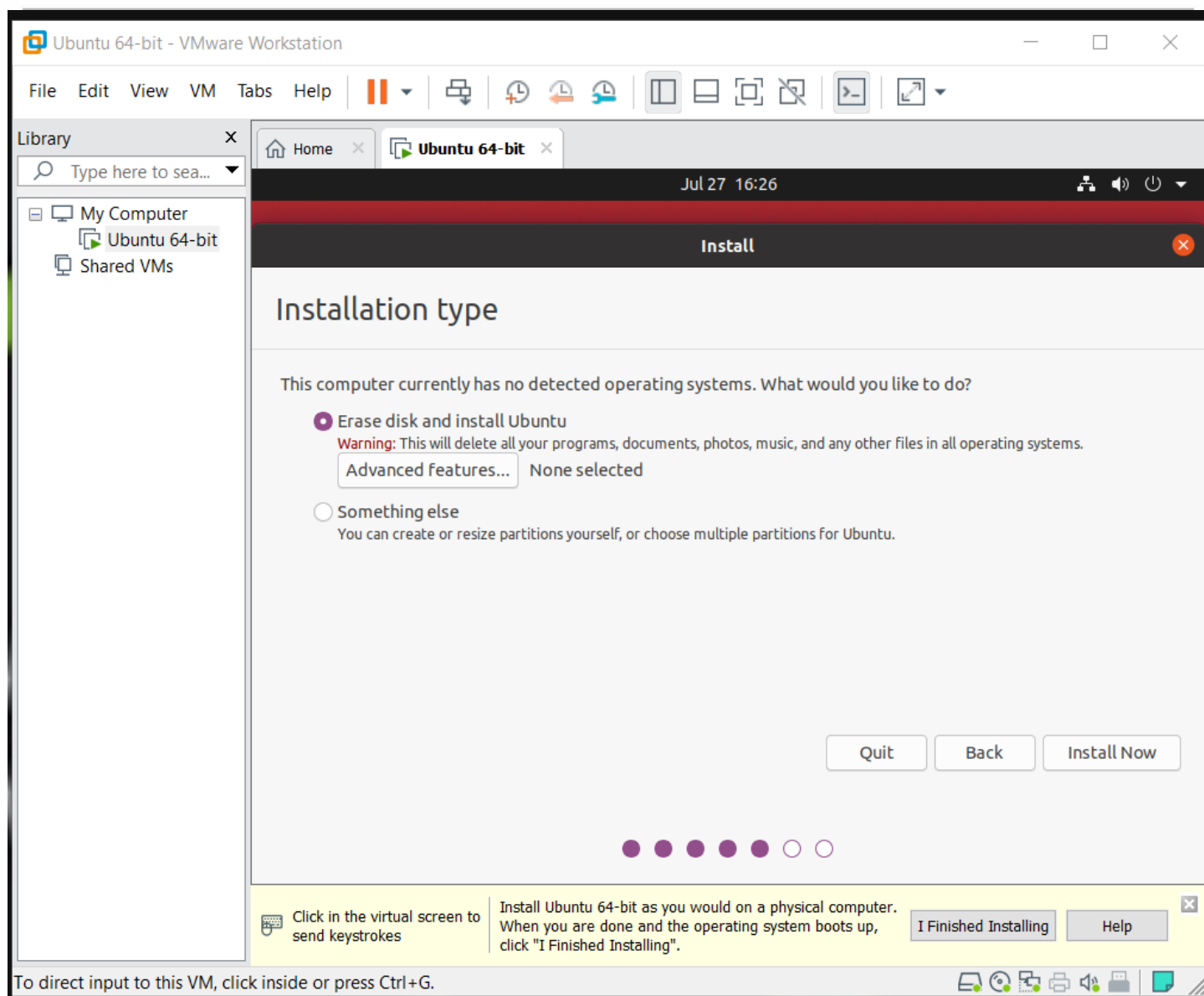
Select the options as shown in image above and then click continue.



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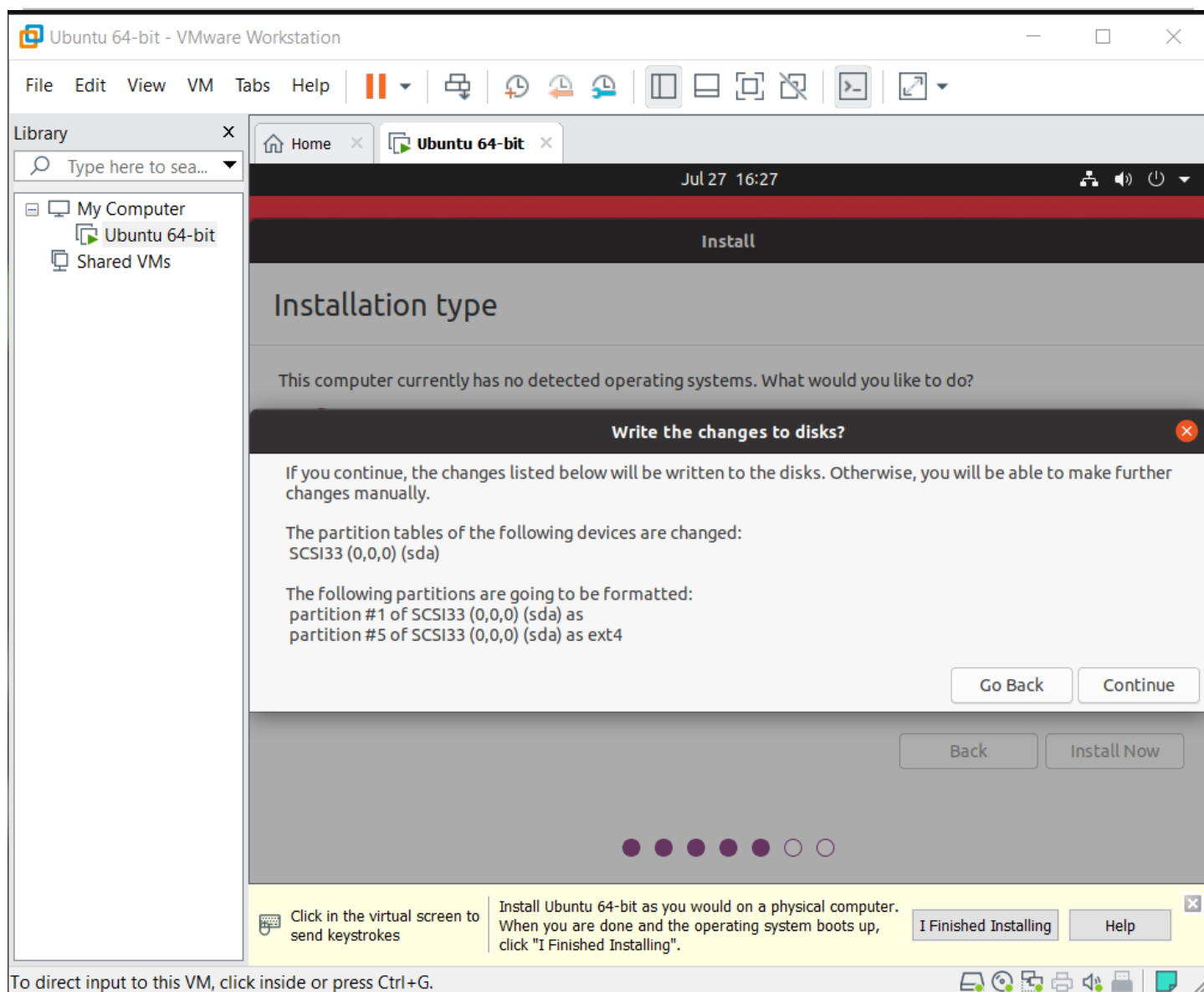


Click on Erase disk and Install Ubuntu.

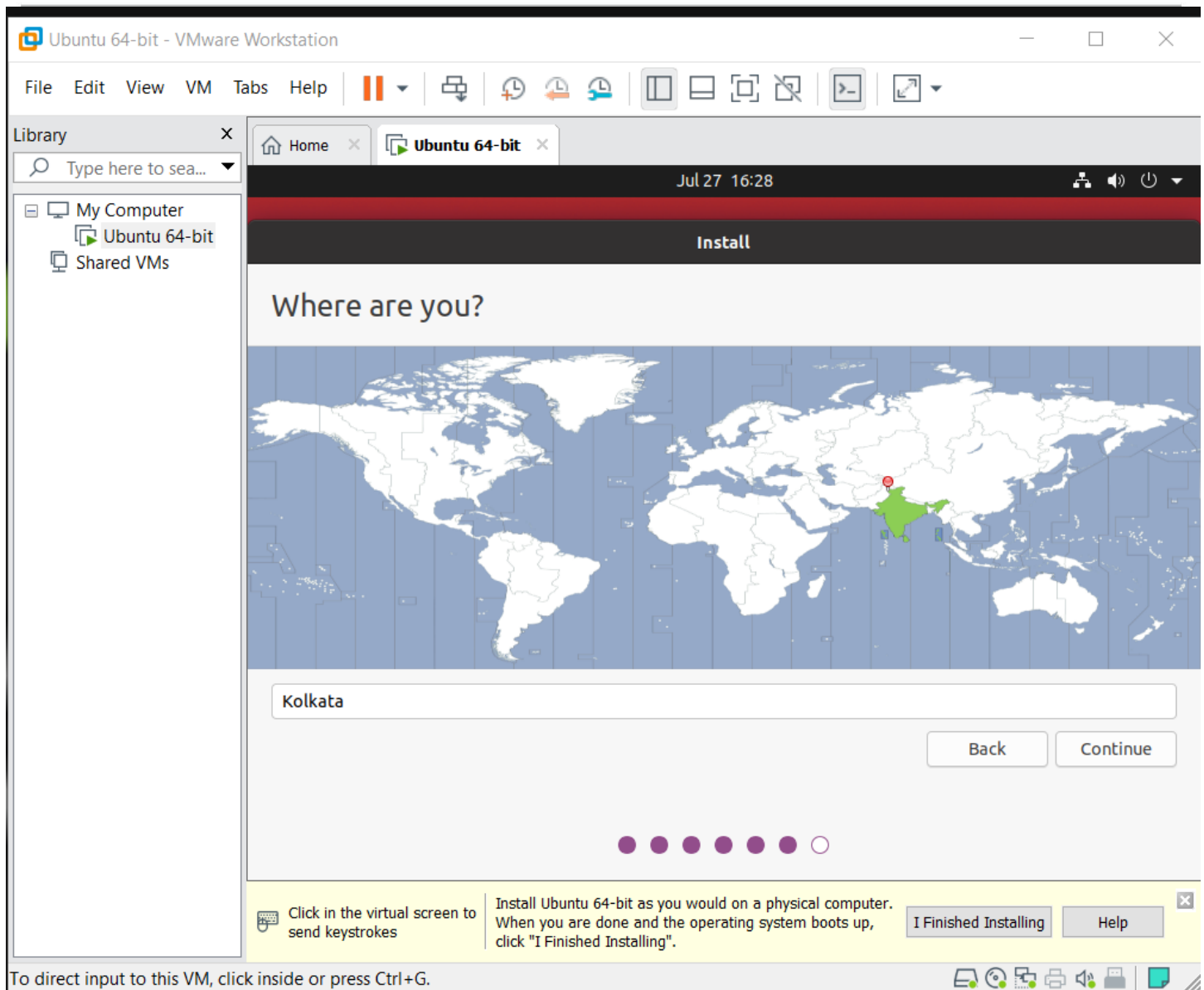


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Click on Continue.



The screenshot shows the VMware Workstation interface with a virtual machine named 'Ubuntu 64-bit' running. The VM screen displays the Ubuntu installer's 'Where are you?' step. It features a world map with India highlighted in green and a red location pin. Below the map, a text input field contains 'Kolkata'. To the right of the input field are 'Back' and 'Continue' buttons. At the bottom of the installer window, there are instructions: 'Click in the virtual screen to send keystrokes' and 'Install Ubuntu 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"'. There are also buttons for 'I Finished Installing' and 'Help'. The VMware toolbar at the top includes menus for File, Edit, View, VM, Tabs, and Help, along with various icons for VM operations. The left sidebar shows the Library with 'My Computer' containing 'Ubuntu 64-bit' and 'Shared VMs'.

Click on Continue.



Ubuntu 64-bit - VMware Workstation

File Edit View VM Tabs Help

Library

Type here to search

- My Computer
 - Ubuntu 64-bit
 - Shared VMs

Home x Ubuntu 64-bit x

Jul 27 21:59

Install

Who are you?

Your name:

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

Pick a username:

Choose a password:

Confirm your password:

☐ Log in automatically
☒ Require my password to log in

Back Continue

Click in the virtual screen to send keystrokes

Install Ubuntu 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".

I Finished Installing Help

To direct input to this VM, click inside or press Ctrl+G.

Enter your account name and create a password of your choice.



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Ubuntu 64-bit - VMware Workstation

File Edit View VM Tabs Help

Library

Type here to search

My Computer

Ubuntu 64-bit

Shared VMs

Home x Ubuntu 64-bit x

Jul 27 22:00

Install

Who are you?

Your name: ✓

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

Pick a username: ✓

Choose a password: Good password

Confirm your password: ✓

☐ Log in automatically

☒ Require my password to log in

Back Continue

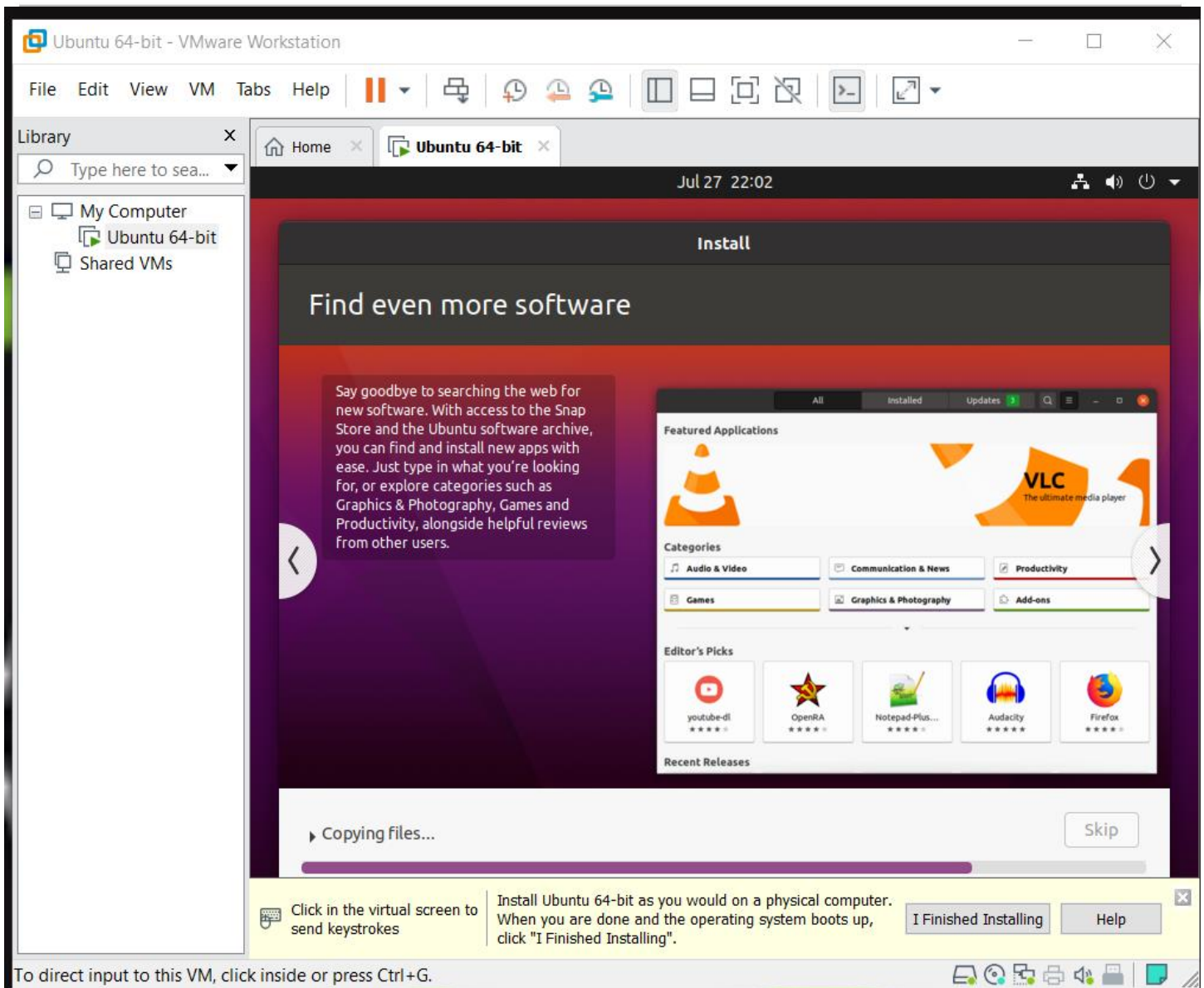
Click in the virtual screen to send keystrokes

Install Ubuntu 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".

I Finished Installing Help

To direct input to this VM, click inside or press Ctrl+G.

Click on Continue.



Wait for installation.



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Ubuntu 64-bit - VMware Workstation

File Edit View VM Tabs Help

Library

- My Computer
 - Ubuntu 64-bit
 - Shared VMs

Home x Ubuntu 64-bit x

Jul 27 22:58

Installation Complete

Installation is complete. You need to restart the computer in order to use the new installation.

Restart Now

Click in the virtual screen to send keystrokes

Install Ubuntu 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".

I Finished Installing Help

To direct input to this VM, click inside or press Ctrl+G.

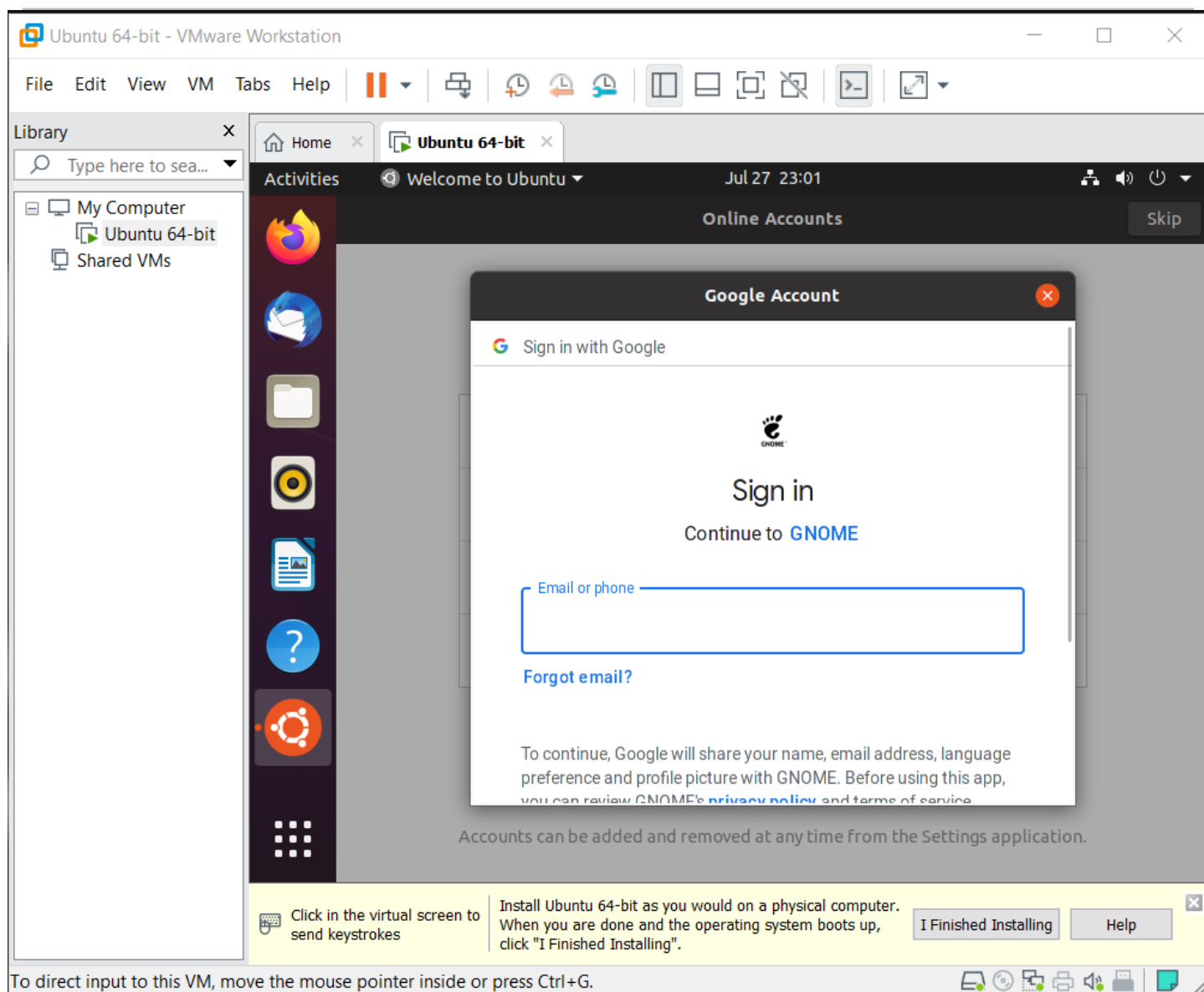
After installation gets completed Click on Restart Now.



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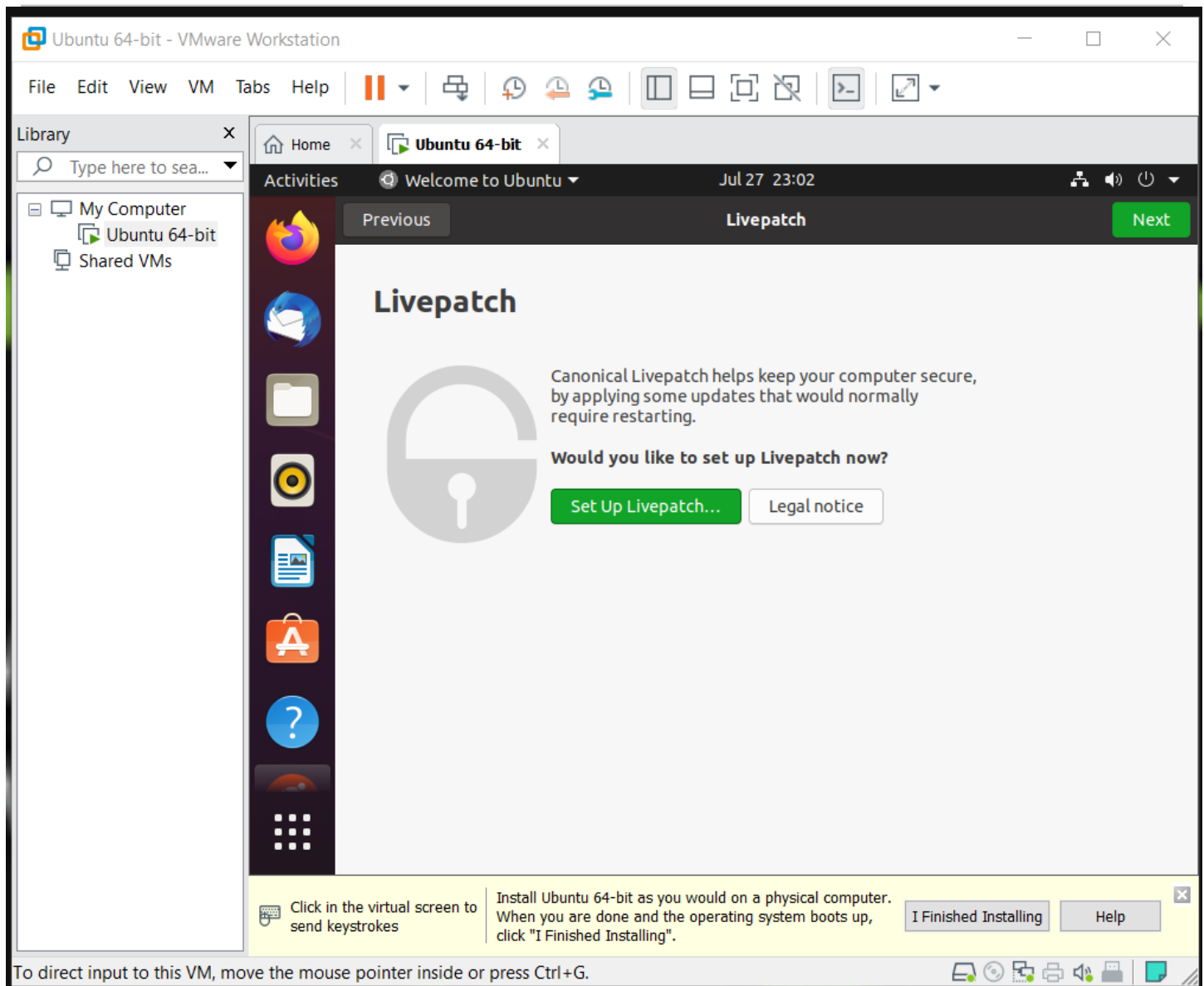
After restart open your account and then click on sign in via google as per your choice.



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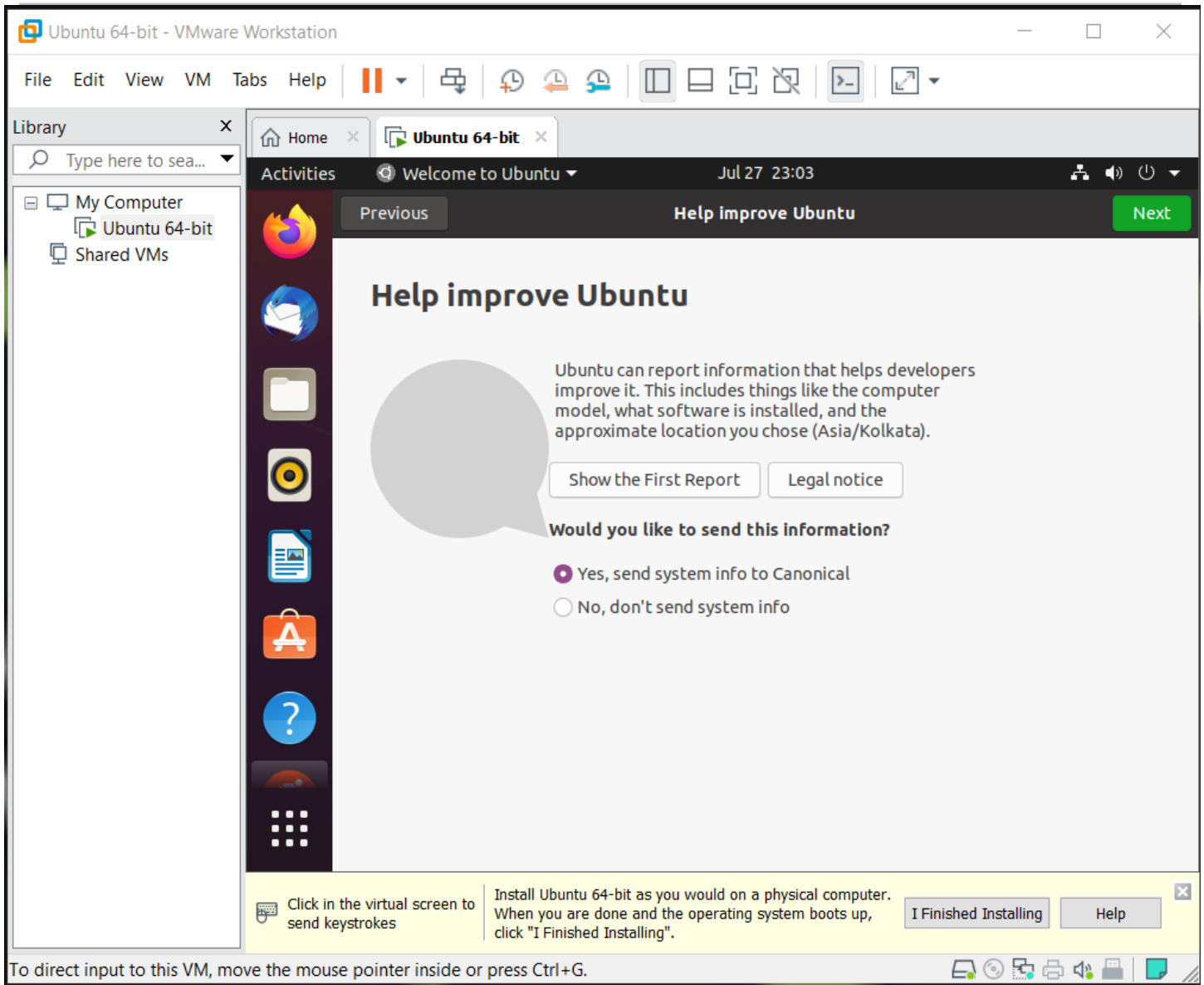
After login Click on Next.



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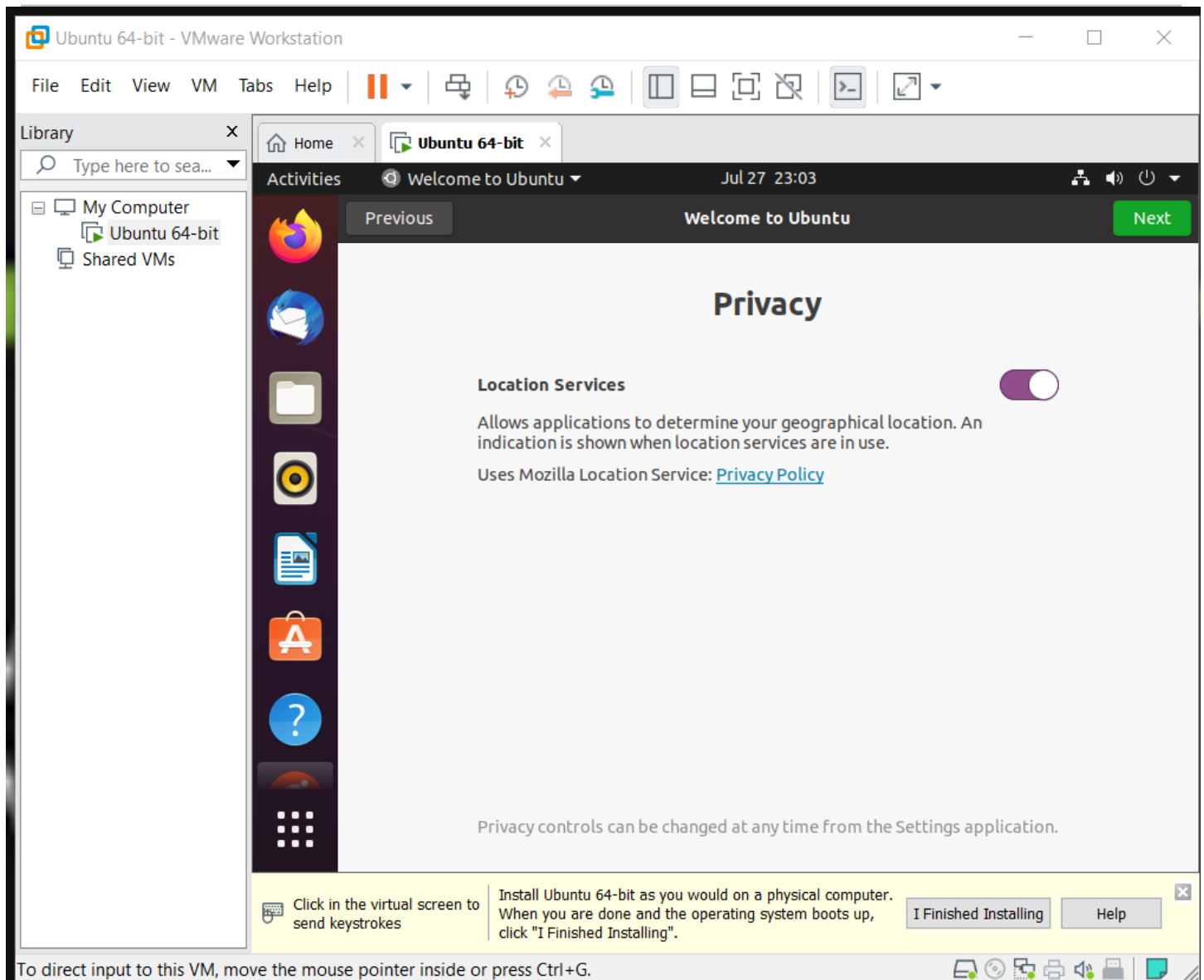


Click on Next.



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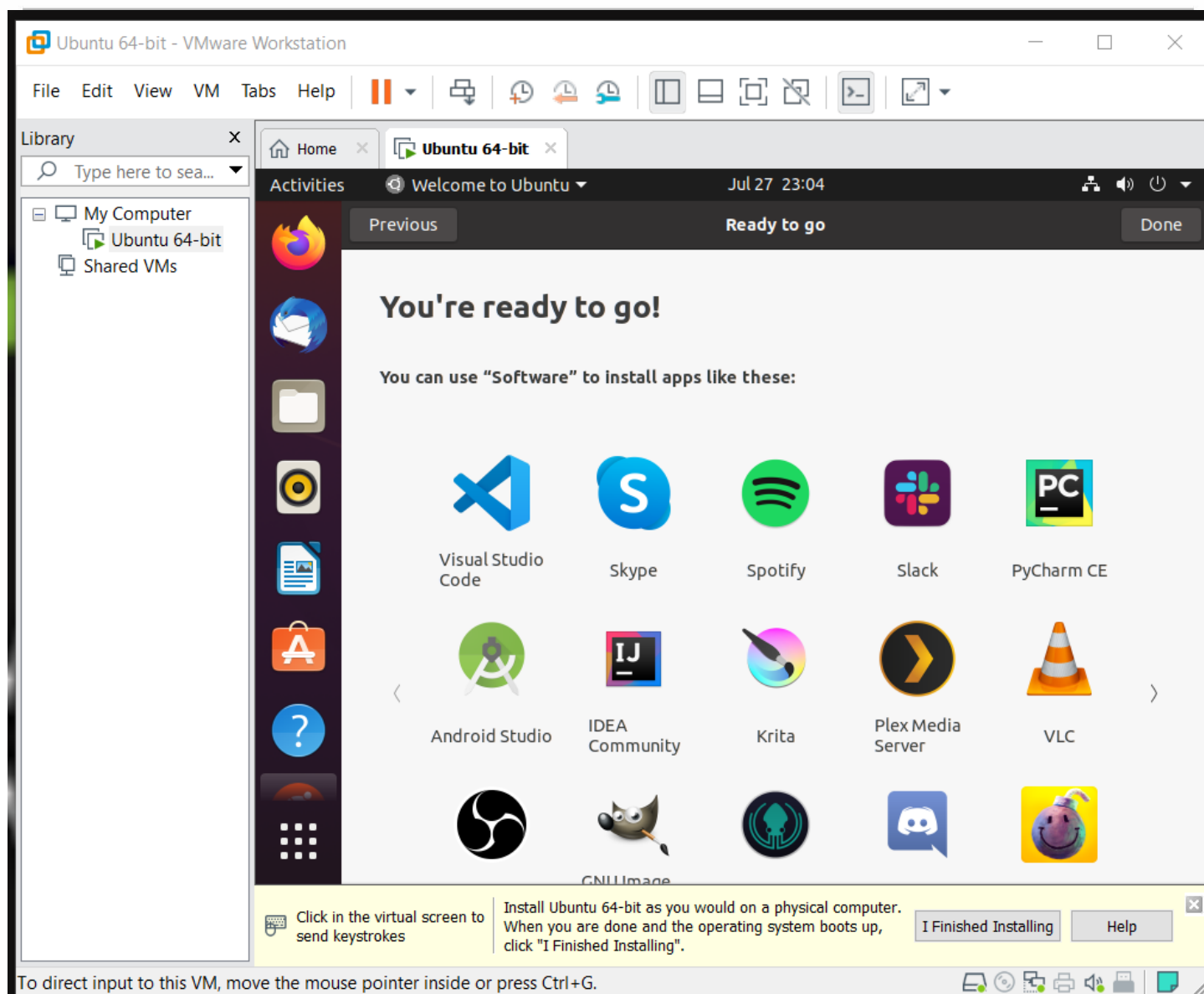
Turn on the privacy and then Click on Next.



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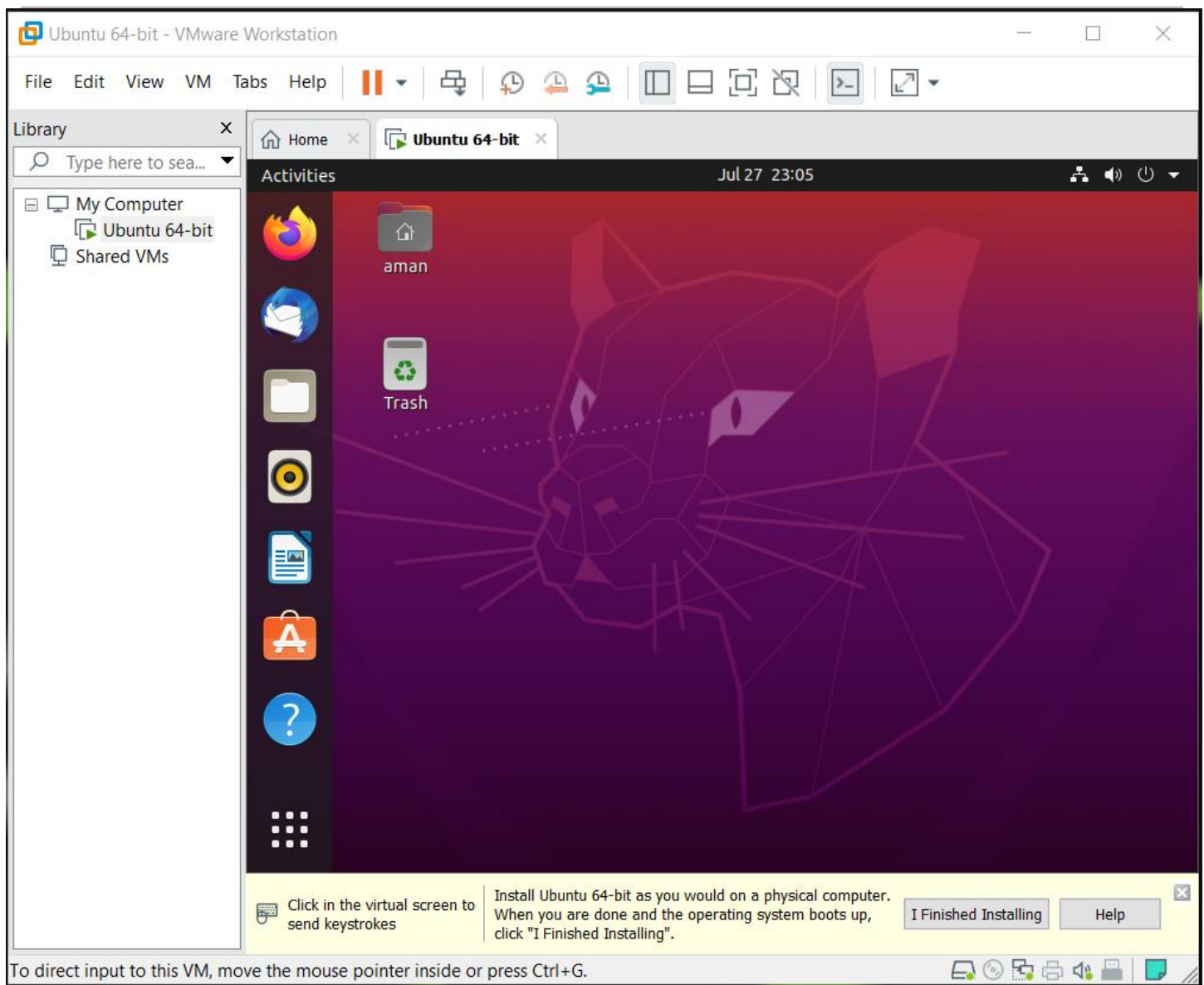
Click on done.



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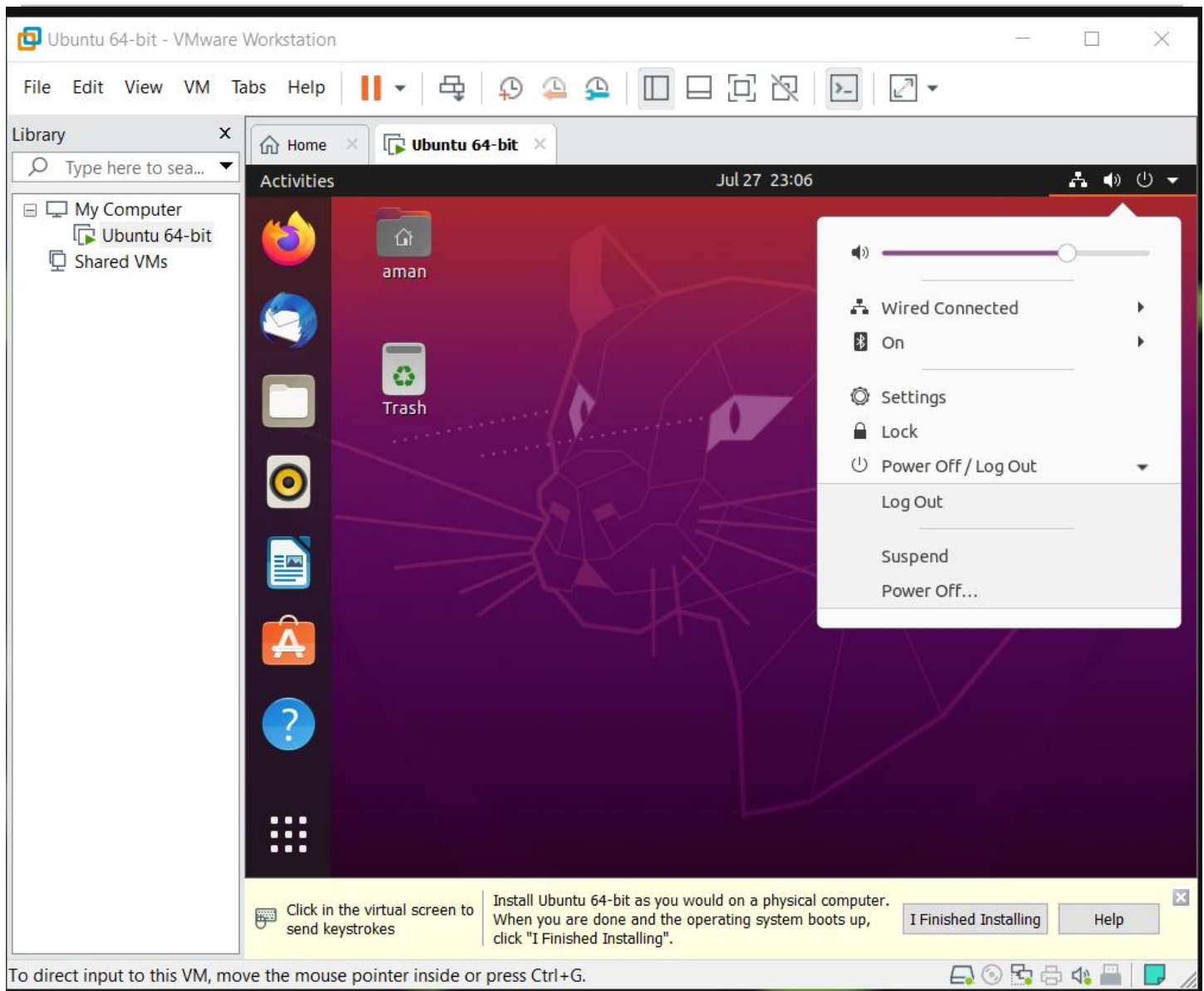
Click on upper right corner to Power off this Virtual Machine.



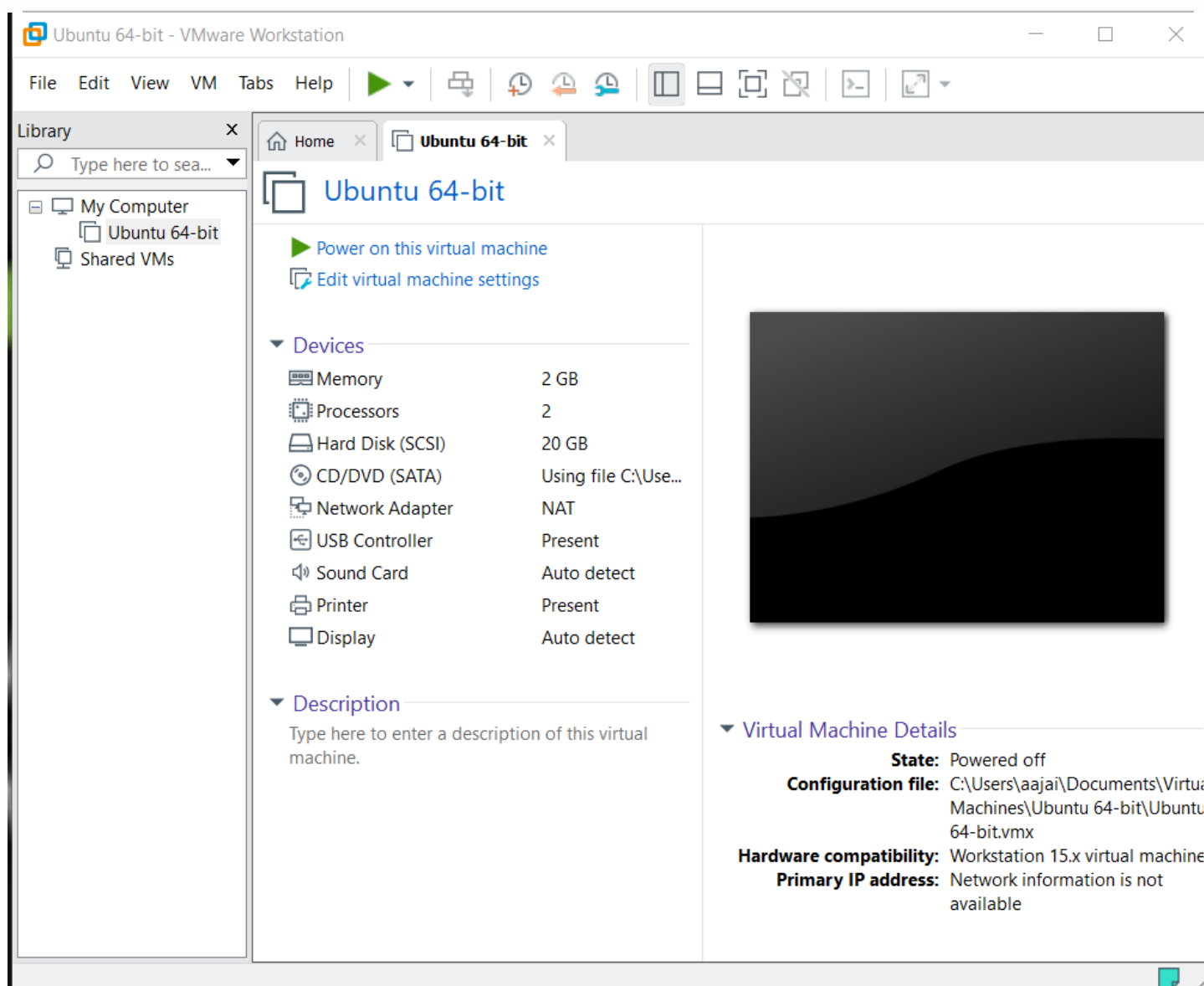
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Click on power off.



Ubuntu 64-bit - VMware Workstation

File Edit View VM Tabs Help

Library

Type here to search

- My Computer
 - Ubuntu 64-bit
- Shared VMs

Home x Ubuntu 64-bit x

Ubuntu 64-bit

[Power on this virtual machine](#)
[Edit virtual machine settings](#)

▼ Devices

Memory	2 GB
Processors	2
Hard Disk (SCSI)	20 GB
CD/DVD (SATA)	Using file C:\Use...
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

▼ Description

Type here to enter a description of this virtual machine.

▼ Virtual Machine Details

State: Powered off

Configuration file: C:\Users\aaajai\Documents\Virtual Machines\Ubuntu 64-bit\Ubuntu 64-bit.vmx

Hardware compatibility: Workstation 15.x virtual machine

Primary IP address: Network information is not available

Click on Edit Virtual Machine settings.

Virtual Machine Settings ✕

Hardware Options

Device	Summary
Memory	2 GB
Processors	2
Hard Disk (SCSI)	20 GB
CD/DVD (SATA)	Using file C:\Users\aaajai\Do...
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Device status

☐ Connected
 ☒ Connect at power on

Connection

☒ Use physical drive:

Auto detect ▾

☐ Use ISO image file:

C:\Users\aaajai\Downloads\ubuntu-20.04-d ▾

Browse...

Advanced...

Add...

Remove

OK

Cancel

Help

Now select use physical drive.

Click on OK.

In this way you can Successfully install Ubuntu on Vmware

3. Source Code (For programming based labs):

NIL

6. Result/Output/Writing Summary:

You have successfully installed Ubuntu.

Learning outcomes (What I have learnt):

- 1. Work with Ubuntu.**
- 2. Work with Virtual Machine.**
- 3. Install Linux on your PC.**
- 4. Install Virtual Machine on your PC.**



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Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			