

**SAVEETHA SCHOOL OF ENGINEERING
SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES
INSTITUTE OF INFORMATION TECHNOLOGY**

CSA15 CLOUD COMPUTING AND BIG DATA ANALYTICS

LIST OF EXPERIMENTS

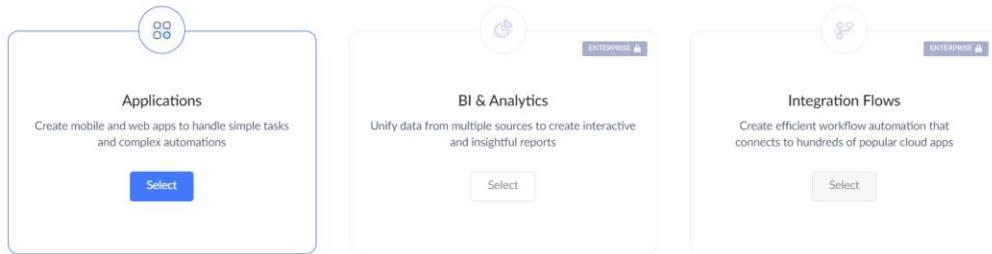
1. Create a simple cloud software application and provide it as a service using any Cloud Service Provider to demonstrate Software as a Service (SaaS).

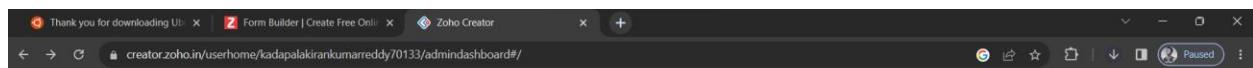
The screenshot shows the Zoho Creator Admin Dashboard. On the left, there's a sidebar with categories: DEVELOP (Microservices, Solutions), DEPLOY (Environments, Mobile, Portal), and MANAGE (Users, Organization, Governance, Operations, Billing). The main area displays a grid of application cards. Each card includes a small icon, the application name, a creation date, and status indicators for Application and Environment. A search bar and a 'Create Solution' button are at the top right.

Application	Created	Status
flight booking	Jul 13, 2023	Dev FB
property buying and rental purpose	Jul 13, 2023	Dev PBA
library book reservation system	Jul 13, 2023	Dev LBR
car booking	Jul 13, 2023	Dev CB
flight reservation system	Jul 13, 2023	Dev FRS
car		Dev CAR
kirank	Jul 13, 2023	Dev KIR

At the bottom, there's a weather widget (87°F, Mostly cloudy) and a taskbar with various icons.

What Kind Of Solution Are You Looking For?



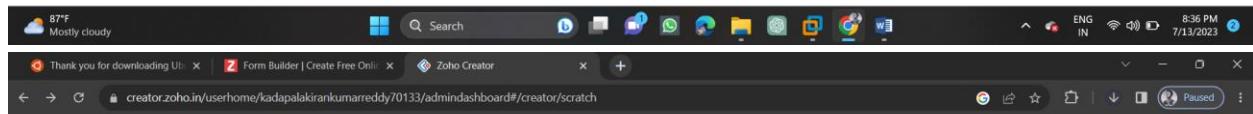


← X

Create New Application

The screenshot shows three options for creating a new application:

- Create from scratch**: An icon of a computer monitor with a pencil. Description: "Create a new application for your business needs". Button: "Create".
- Create from gallery**: An icon of a photo album with a plus sign. Description: "Pick a pre-built application that suits your requirement". Button: "Pick".
- Import from file**: An icon of a download arrow pointing into a folder. Description: "Import your existing data to create an application". Button: "Import".



← X

The screenshot shows the 'Create From Scratch' form:

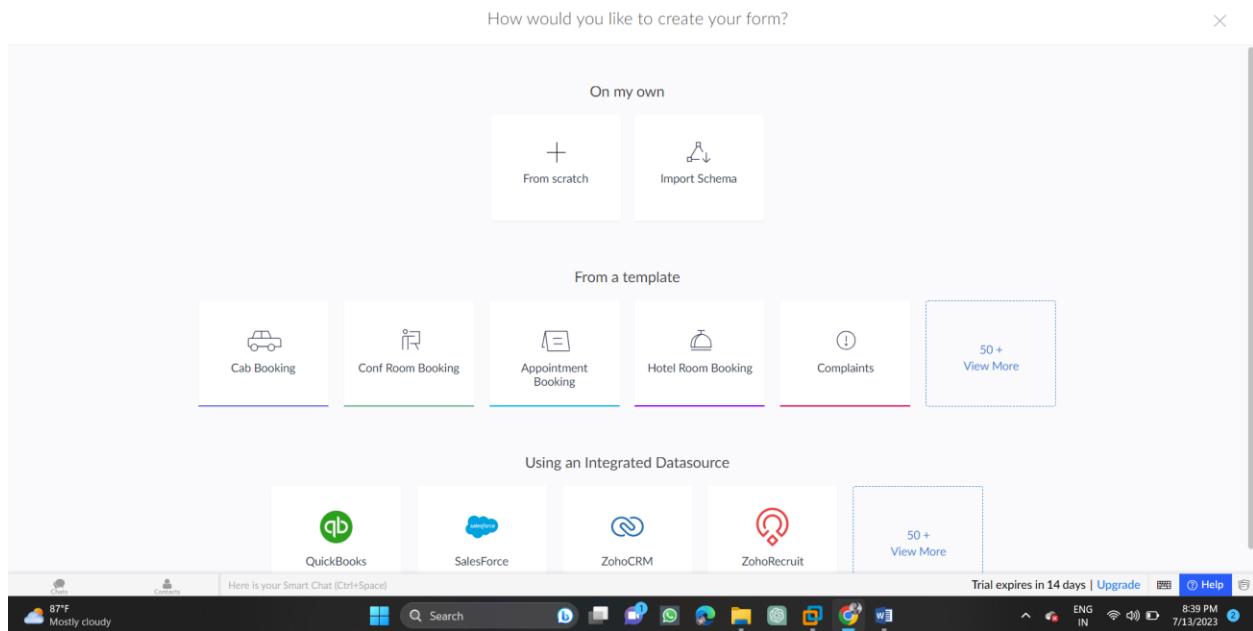
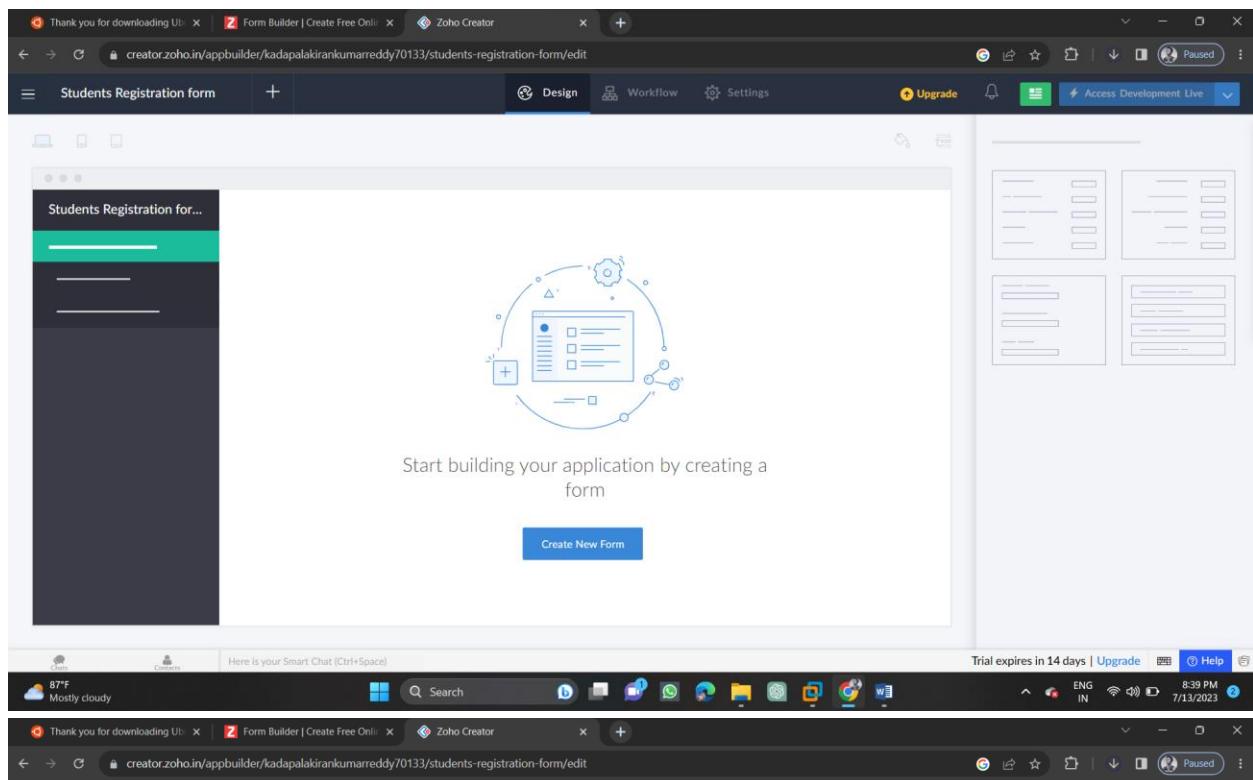
Create From Scratch

Application Name *
Student Registration Form

Enable Environment [Learn More](#)

Create Application





Thank you for downloading UI... | Form Builder | Create Free Online | Zoho Creator

[Students Registration form](#) Apply Leave

Design Workflow Settings Upgrade Access Development Live

Form Customization - Web

Label placement

87°F Mostly cloudy

Here is your Smart Chat (Ctrl+Space)

Trial expires in 14 days | Upgrade Help

Thank you for downloading UI... | Form Builder | Create Free Online | Zoho Creator

[Students Registration form](#) Apply Leave

Design Workflow Settings Done

Field Properties

Field name: Student ID
Field link name: Student_ID

Validation: Mandatory No duplicate values

Initial value: Initial value

Character maximum: 255

Data Privacy: Contains personal data (PPI)

Data Security

87°F Mostly cloudy

Here is your Smart Chat (Ctrl+Space)

Trial expires in 14 days | Upgrade Help

Thank you for downloading UI... | Form Builder | Create Free Online | kadapalakirankumarreddy70133/environment/development/students-registration-form/#Form:Apply_Leave

Students Registration fo... Development

Apply Leave

Student ID *

Name *
First Name Last Name

Email * kadapalakirankumarreddy70133@zoh...

Department -Select-

Leave Information

From * dd-MMM-yyyy Reason for leave *

To * dd-MMM-yyyy

Number of days 0

Faculty email * kadapalakirankumarreddy70133@zoh... Attach supporting documents

Kiran Kumarreddy K... Waiting for salesiq.zohopublic.com... 87°F Mostly cloudy

Search b S Search D M W G C A F Z W 8:43 PM ENG IN 7/13/2023

Thank you for downloading UI... | Form Builder | Create Free Online | kadapalakirankumarreddy70133/environment/development/students-registration-form/#Form:Apply_Leave

Students Registration fo... Development

Apply Leave

✓ Leave Applied Successfully!

Student ID *

Name *
First Name Last Name

Email * kadapalakirankumarreddy70133@zoh...

Department -Select-

Leave Information

From * dd-MMM-yyyy Reason for leave *

To * dd-MMM-yyyy

Number of days 0

Faculty email * kadapalakirankumarreddy70133@zoh... Attach supporting documents

Kiran Kumarreddy K... 87°F Mostly cloudy

Search b S Search D M W G C A F Z W 8:47 PM ENG IN 7/13/2023

The screenshot shows a web-based application interface for a student registration form. On the left, a sidebar menu includes 'Leave Tracker' (selected), 'Apply Leave', 'Leave Report', and 'Leaves'. The main area is titled 'Leave Report' and displays a calendar for July 2023. The calendar shows various dates from 9 to 31. Specific dates are highlighted: July 12, 13, and 14 are highlighted in yellow; July 16, 19, 20, and 21 are highlighted in grey. Below the calendar, two leave requests are listed:

Leave Request ID	Employee Name	Email	Number of Days	Reason for leave	Faculty Email
192011390	Kadapala Kiran Kumar Reddy	kadapalakirankumarreddy70133@gmail.com	8	To attend festival	brajakumar123@gmail.com
192011389	K Chandra	kadapalakirankumarreddy70133@gmail.com	2	fever	brajakumar123@gmail.com

The screenshot shows the same web-based application interface, but the main area is now titled 'Leaves'. It displays a table with the following data:

Leave Request ID	Employee Name	Email	Number of Days	Reason for leave	Faculty Email
192011390	Kadapala Kiran Kumar Reddy	kadapalakirankumarreddy70133@gmail.com	8	To attend festival	brajakumar123@gmail.com
192011389	K Chandra	kadapalakirankumarreddy70133@gmail.com	2	fever	brajakumar123@gmail.com

2. Create a simple cloud software application for Flight Reservation System using any Cloud Service Provider to demonstrate SaaS

3. Create a simple cloud software application for Property Buying & Rental process (In Chennai city) using any Cloud Service Provider to demonstrate SaaS

zoho login - Search | Sign in to your Zoho Account | zoho crator - Search | kadapalakirankumarreddy70 - p | +

Property Buying And Rental Purpose | Development

property booking

Image: PIR-Motion-Sensor-How-It-Works.jpg

Name: Kirankumarreddy Kadapala

First Name: Kirankumarreddy
Last Name: Kadapala

Email: 192011390.sse@saveetha.com

Address: 1-642
Address Line 1: tanakal
Address Line 2:
putaparthi Andhra Pradesh
City / District: putaparthi
State / Province: Andhra Pradesh
515571 India
Postal Code: 515571
Country: India

Phone: +91 7013340037

Date: 13-Jul-2023

Time: 22:25:20

Checkbox: Choice 1

Kirankumarreddy K...
New games Play now

10:29 PM 7/13/2023

zoho login - Search | Sign in to your Zoho Account | zoho crator - Search | kadapalakirankumarreddy70 - p | +

Property Buying And Rental Purpose | Development

All Property Bookings

Name	Email	Address	Phone	Date	Time	Checkb...
Kirankumarreddy Kadapala	192011390.sse@saveetha.com	1-642, tanakal, putaparthi, Andhra Pradesh, 515571, India	+91 7013340037	13-Jul-2023	22:25:20	Choice 1 Choice 2 Choice 3

Showing 1 of 1

Kirankumarreddy K...
86°F Rain showers

10:30 PM 7/13/2023

zoho login - Search | Sign in to your Zoho Account | zoho crator - Search | kadapalakirankumareddy70 - p | +

Property Buying And Rental Purpose | Development

Add Client

Client Details

Contact Details

Name * Preferred contact method * Email Call

First Name Last Name

Occupation Email

Address * Address Line 1 Address Line 2

putaparthi Andhra Pradesh

City / District State Province

515571 India

Postal Code Country

Kirankumareddy K... 86°F Rain showers 10:32 PM 7/13/2023

zoho login - Search | Sign in to your Zoho Account | zoho crator - Search | kadapalakirankumareddy70 - p | +

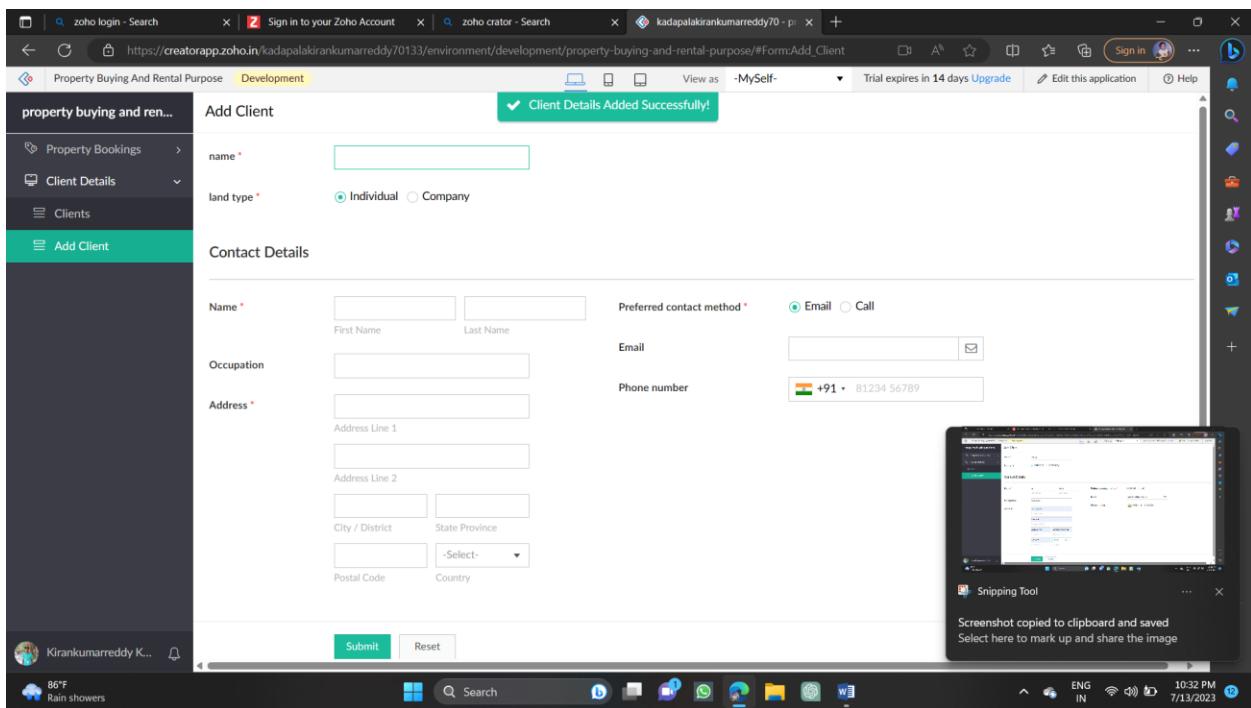
Property Buying And Rental Purpose | Development

Clients

name	Address	Name	land type
yella	vankapalli, tanakal, putaparthi, Andhra Pradesh, 515571, India	a yella	Individual

Showing 1 of 1

Kirankumareddy K... 86°F Rain showers 10:34 PM 7/13/2023



4. Create a simple cloud software application for Car Booking Reservation System using any Cloud Service Provider to demonstrate SaaS.

Screenshot of the "Book a Cab" form in Zoho Creator. The form fields include:

- Image: my_pic.jpg
- Name: Kirankumarreddy Kadapala (First Name: Kirankumarreddy, Last Name: Kadapala)
- Email Id: 192011390.sse@savetha.com
- Mobile Number: +91 7013340037
- Gender: Male
- Booking Date: 13-Jul-2023
- Travel Date: 14-Jul-2023
- Pickup Time: Time 1
- Pickup Address: 1-642, tanakal, putaparthi, Andhra Pradesh

The status bar at the bottom shows: Rain showers, 86°F, 10:37 PM, 7/13/2023.

Screenshot of the "Book a Cab" form in Zoho Creator after submission. A success message is displayed: "✓ Booked Successfully! Confirmation mail has been sent to you."

The form fields are identical to the first screenshot, except for the image field which now shows "Local Computer".

The status bar at the bottom shows: Rain showers, 86°F, 10:37 PM, 7/13/2023.

The screenshot shows a web-based application interface for a car booking system. The URL in the address bar is <https://creatorapp.zoho.in/kadapalakirankumarreddy70133/car-booking#Report:Bookings>. The application has a dark theme with a sidebar on the left containing navigation links: 'Car Booking' (selected), 'Cab Booking', 'Book a Cab', and 'Bookings'. The main area is titled 'Bookings' and displays a table with columns: Name, Email Id, Mobile Number, Gender, Booking Date, and Pickup Time. A single row is visible, representing a booking made on 14-Jul-2023 by Kirankumarreddy Kadapala, with details: Email Id - 192011390.sse@saveetha.com, Mobile Number - +917013340037, Gender - Male, Booking Date - 13-Jul-2023, and Pickup Time - Time 1. The status bar at the bottom shows 'Showing 1 of 1'.

5. Create a simple cloud software application for Library book reservation system for SIMATS library using any Cloud Service Provider to demonstrate SaaS

library book reservation ...

Membership Form

Name *

ID *

Date of birth

Occupation *

Phone Number

Email *

What would you use the library for? *

- Reference
- In-house reading
- Borrowing

Which sections of the library would you like access to?

- All
- Magazines
- Fiction
- Non-Fiction
- Electronic
- Research & Reference

Declaration

KiranKumarreddy K... 86°F Rain showers

86°F Rain showers

10:40 PM 7/13/2023

library book reservation ...

Membership Form

New Member Added Successfully!

Name *

ID *

Date of birth

Occupation *

Phone Number

Email *

What would you use the library for? *

- Reference
- In-house reading
- Borrowing

Which sections of the library would you like access to?

- All
- Magazines
- Fiction
- Non-Fiction
- Electronic
- Research & Reference

Declaration

KiranKumarreddy K... 86°F Rain showers

86°F Rain showers

10:40 PM 7/13/2023

The screenshot displays two separate reports from a Zoho Creator application, both titled "library book reservation ...".

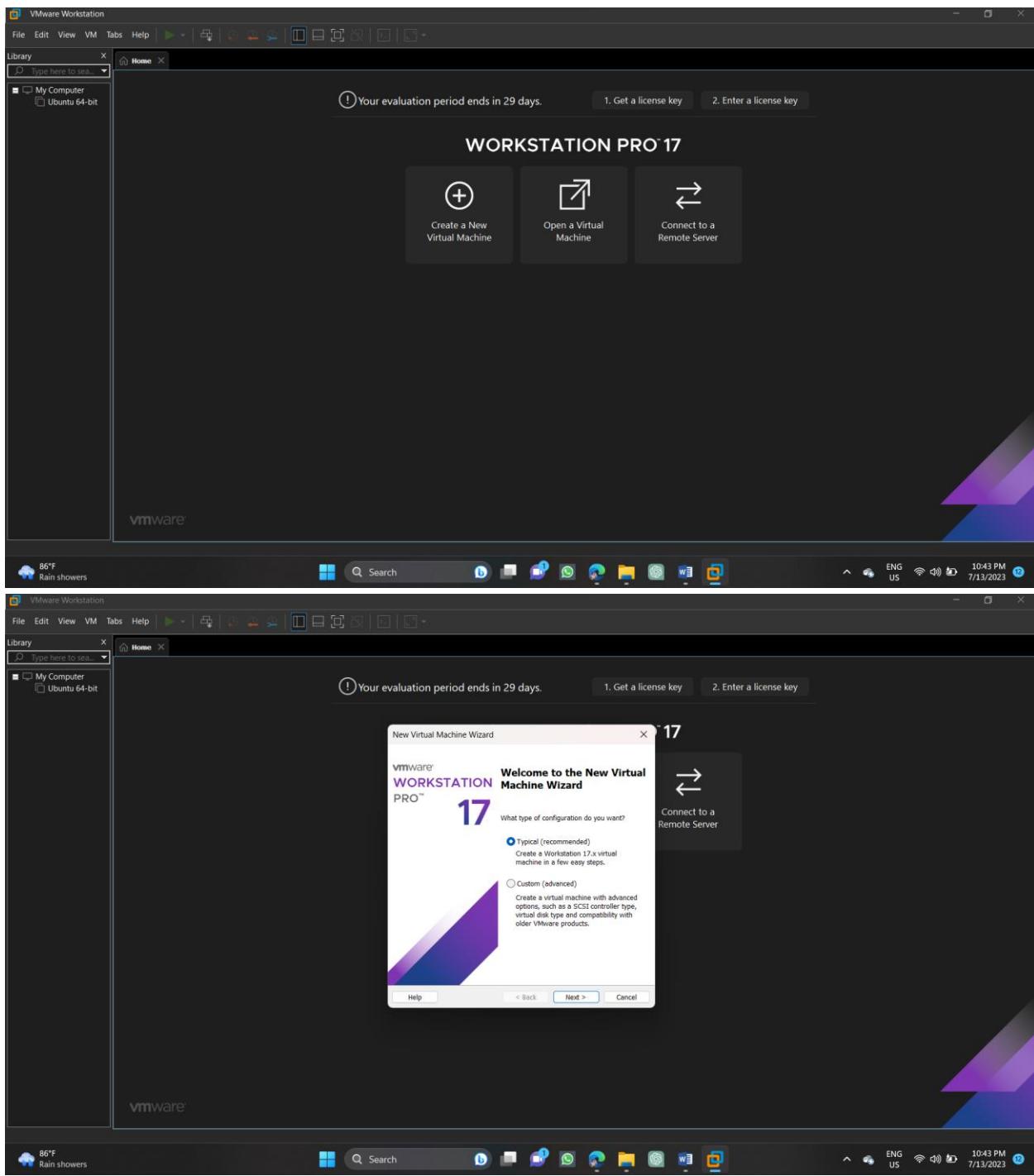
Report 1: Registered Members

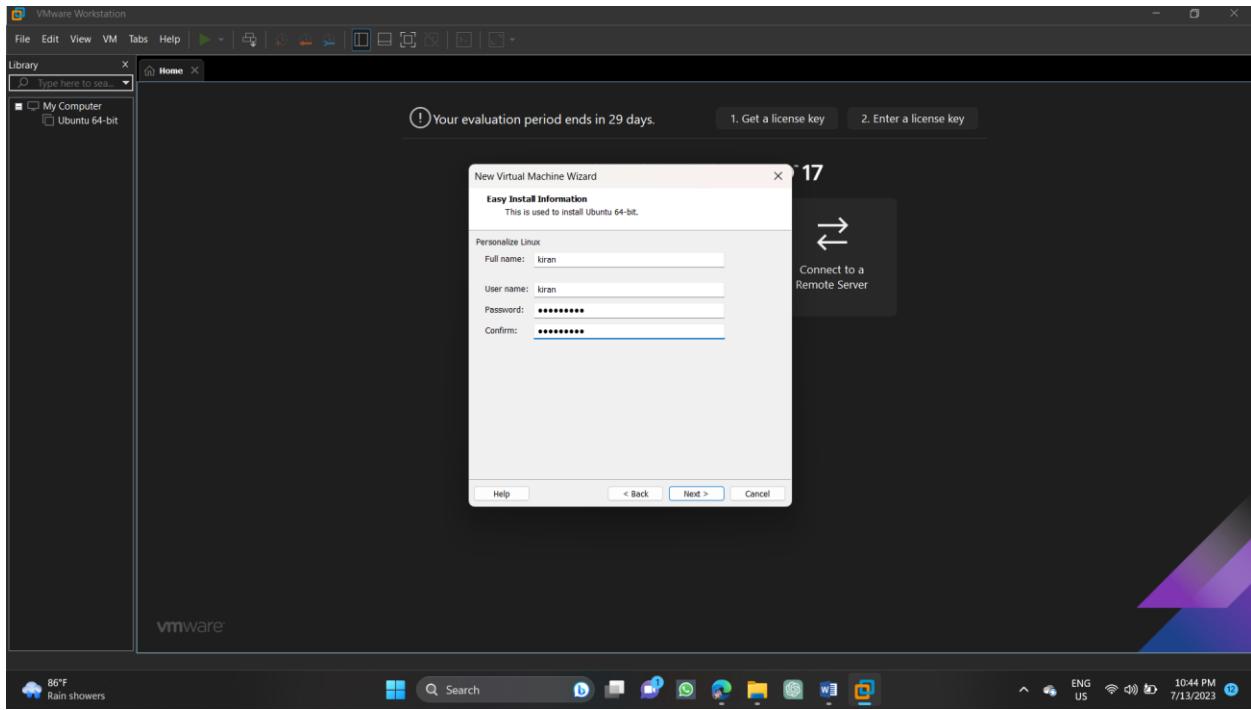
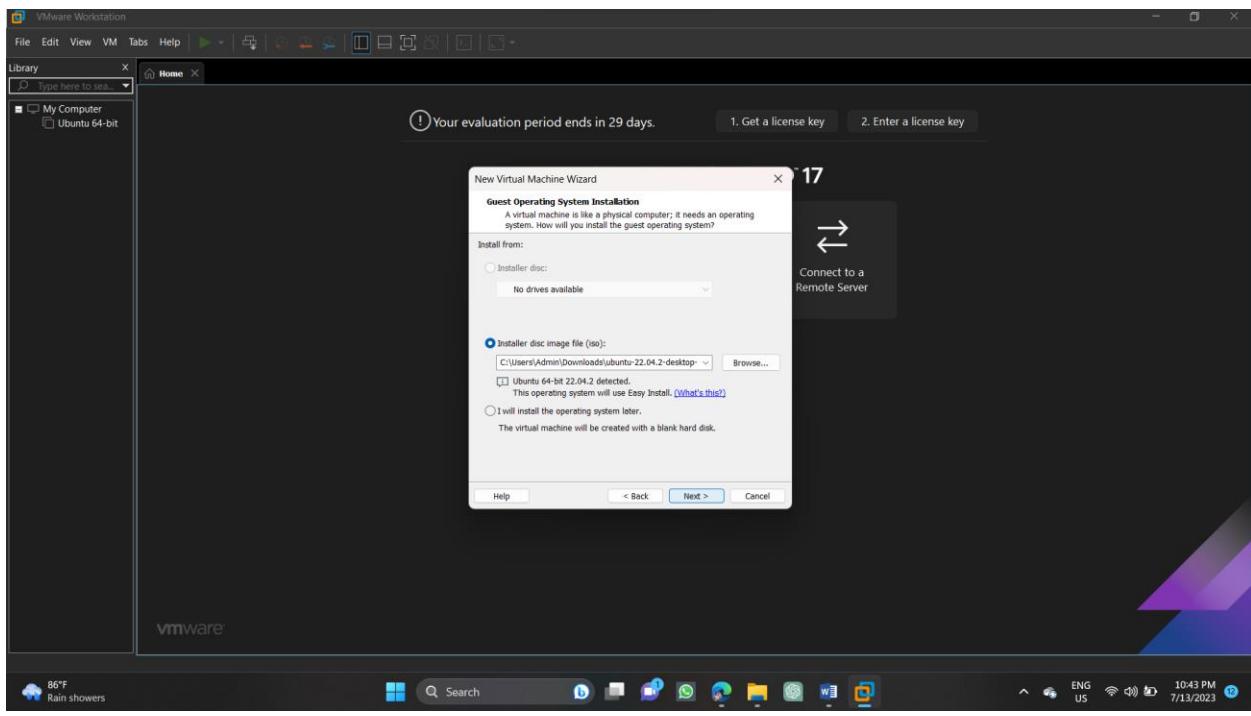
ID	Name	Occupation	Email	Phone Number
192011390	Kirankumarreddy Kadapala	Student	192011390.sse@saveetha.com	+917013340037
192011390	kadapala kiran kumar reddy	Educator	192011390.sse@saveetha.com	+917013340037

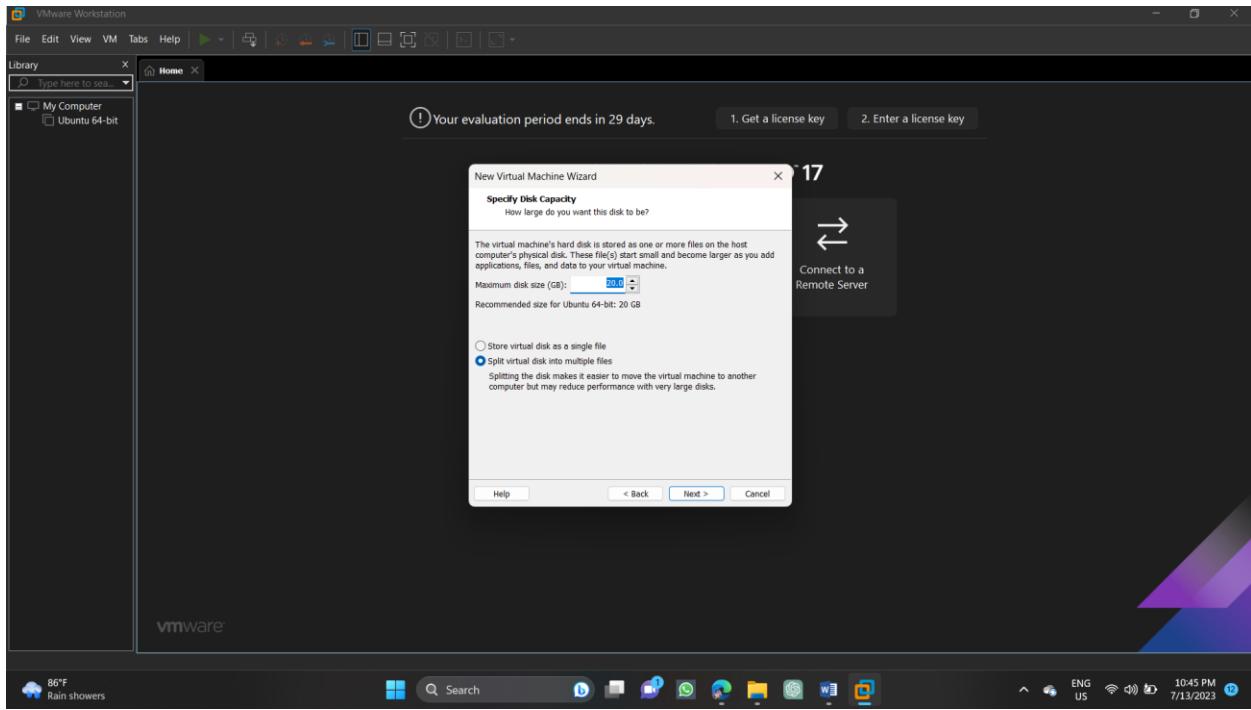
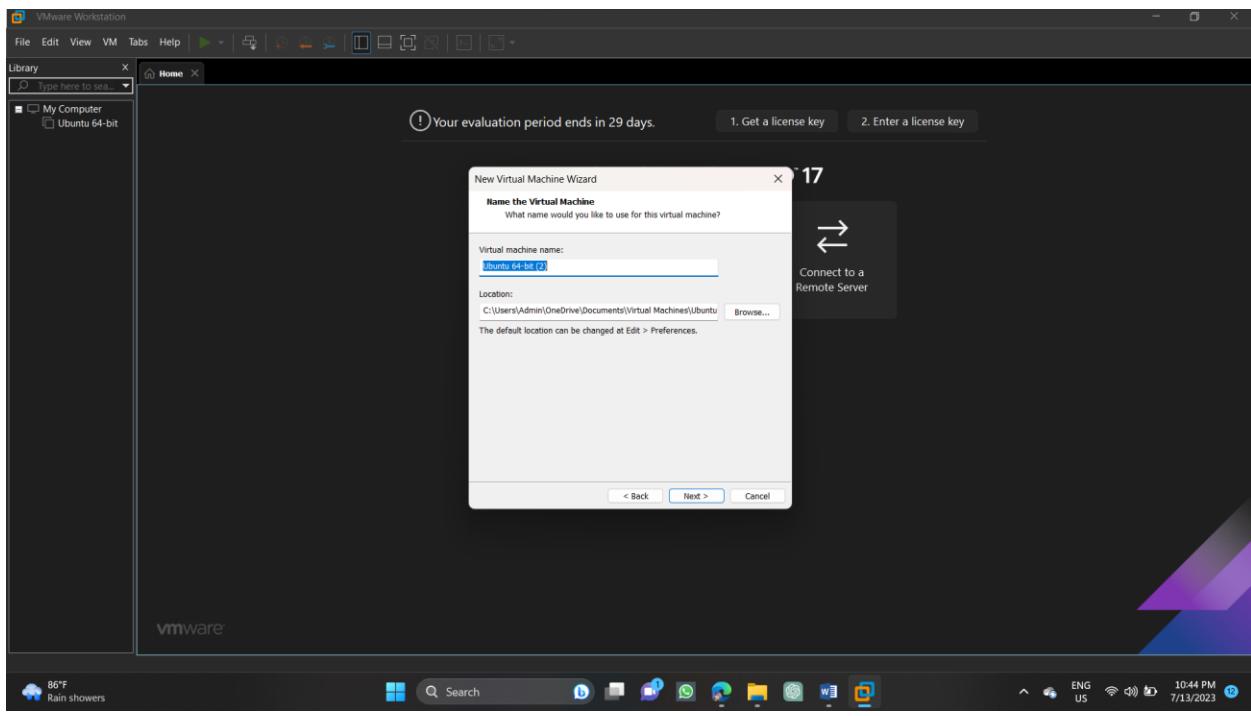
Report 2: feedback

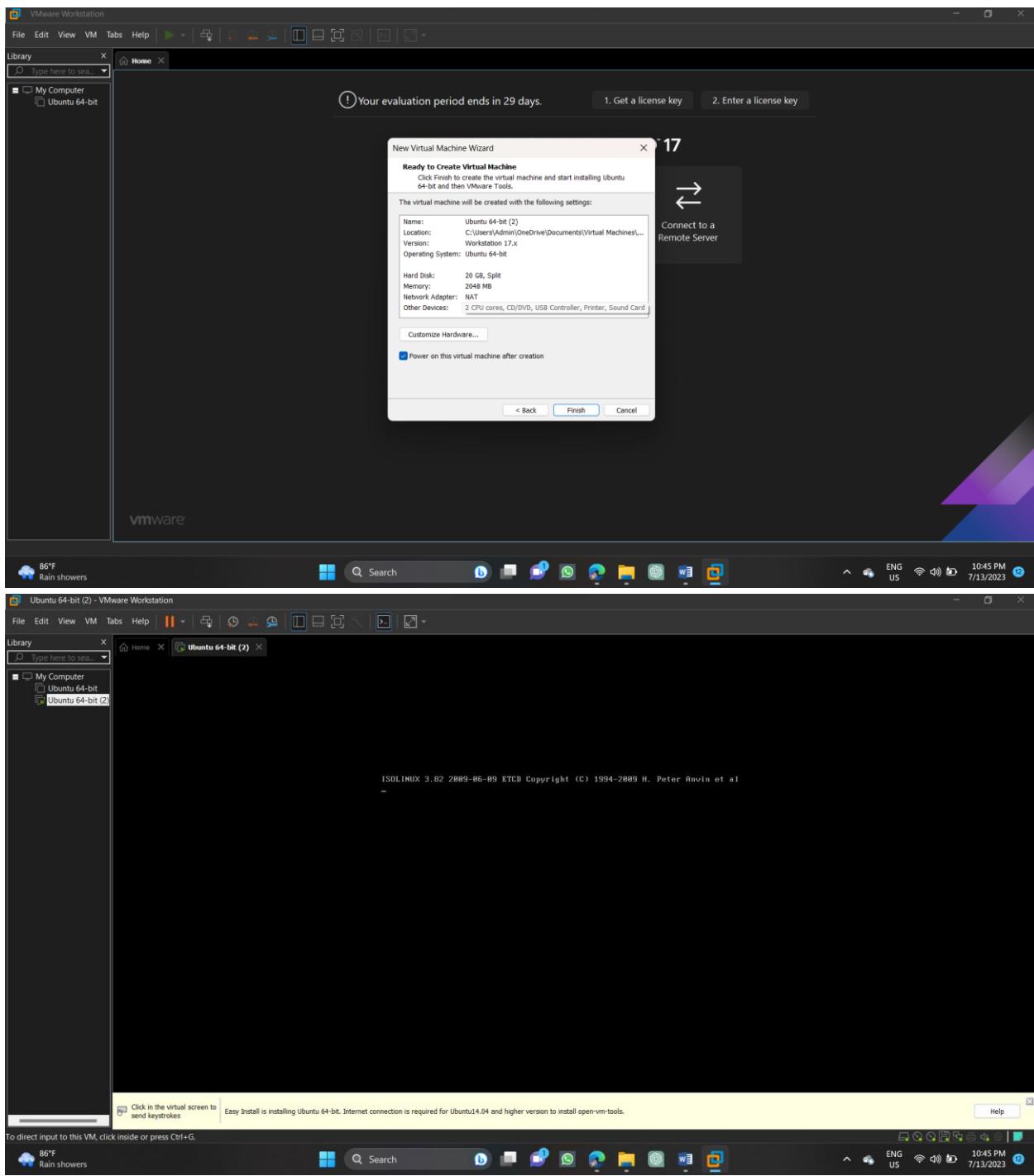
Name	ID	Date of birth	Occupation	Phone Number	Email	What would you use the library for	check status
Kirankumarreddy Kadapala	192011390	25-May-2003	Student	+917013340037	192011390.sse@saveetha.com	In-house reading	<button>check status</button>
kadapala kiran kumar reddy	192011390	25-May-2003	Educator	+917013340037	192011390.sse@saveetha.com	In-house reading	<button>check status</button>

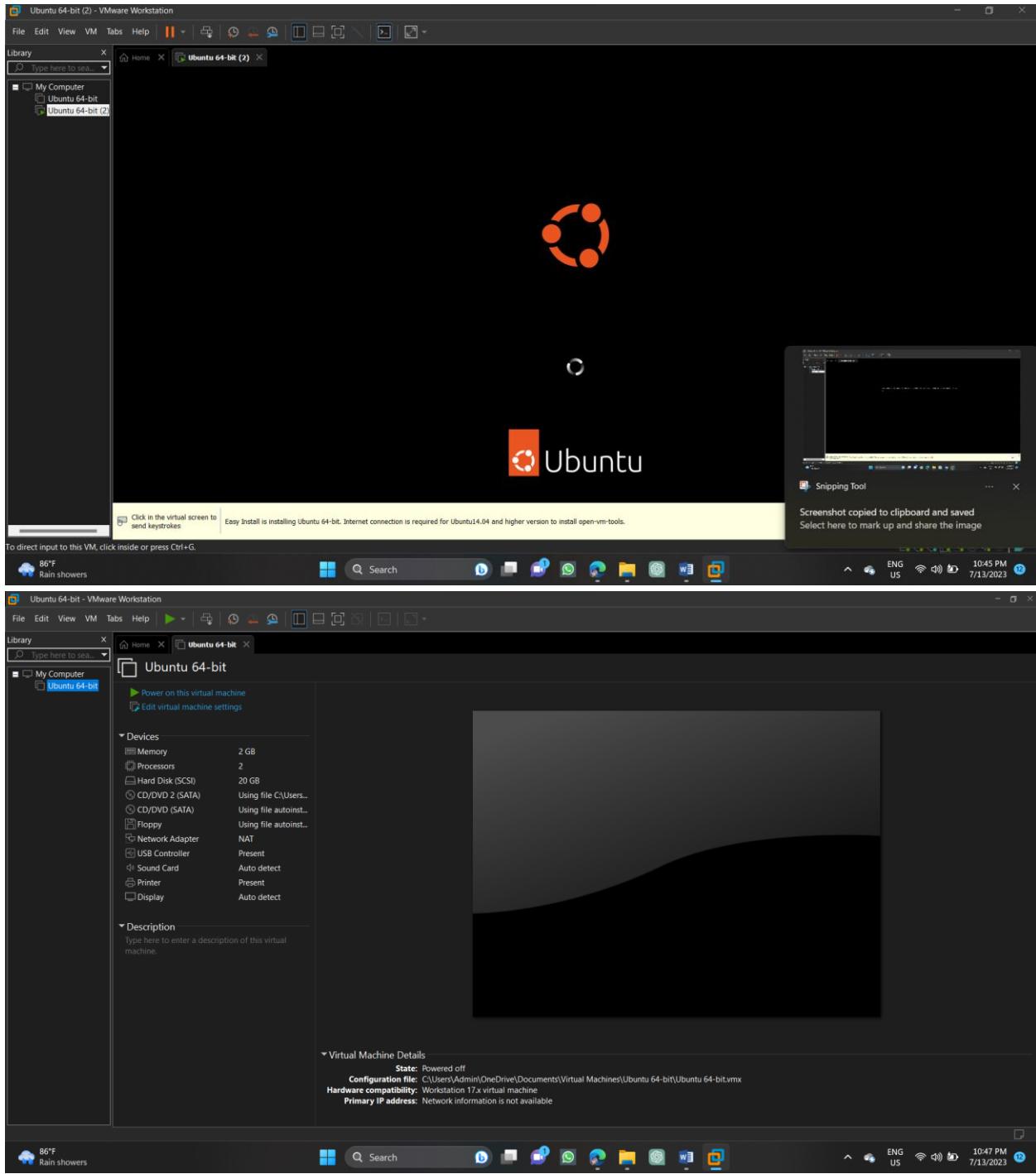
6. Demonstrate virtualization by Installing Type-2 Hypervisor in your device, create and configure VM image with a Host Operating system (Either Windows/Linux).

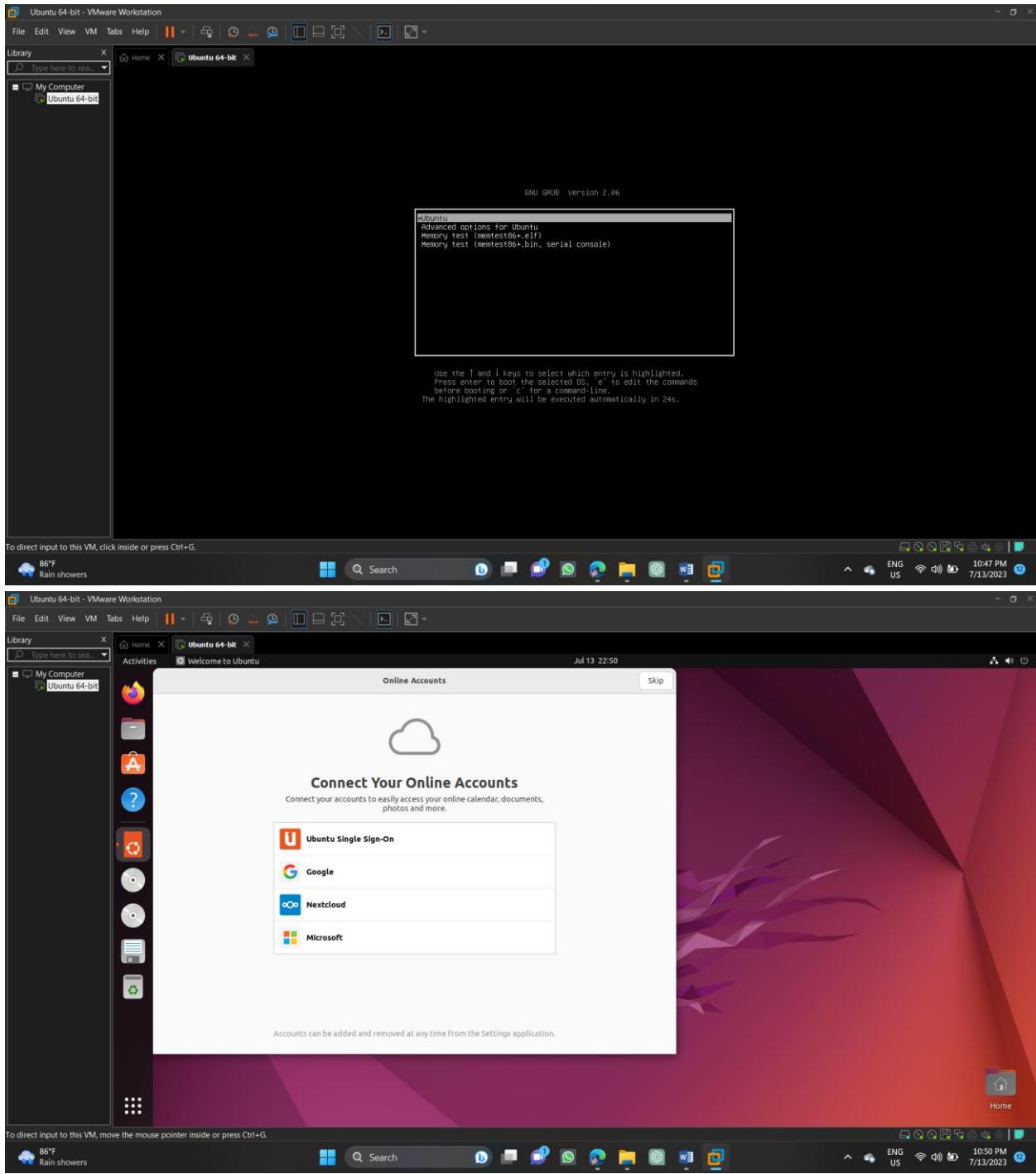


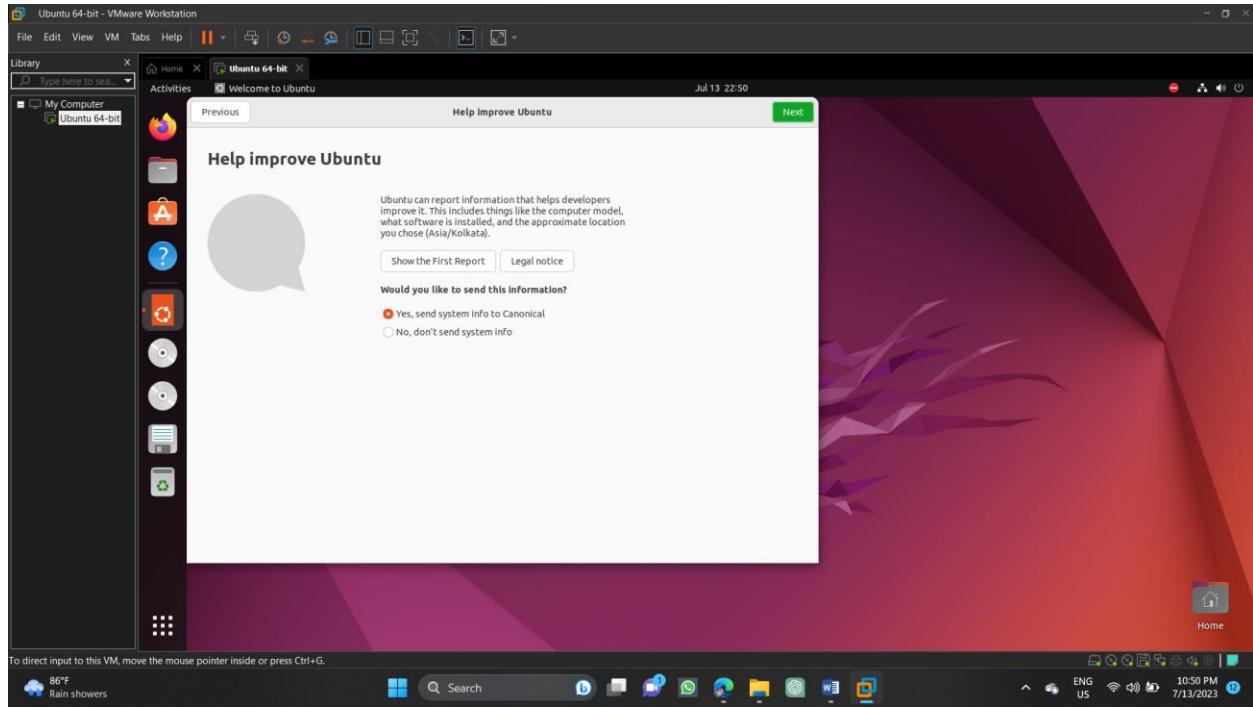
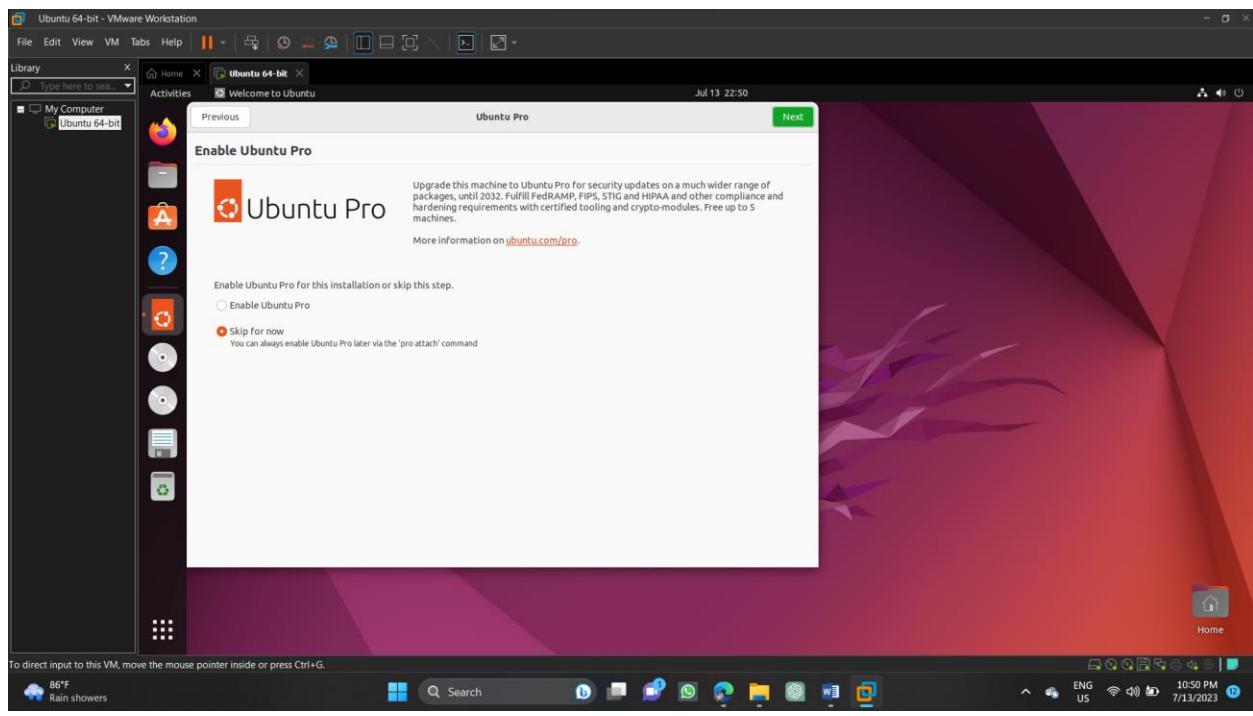


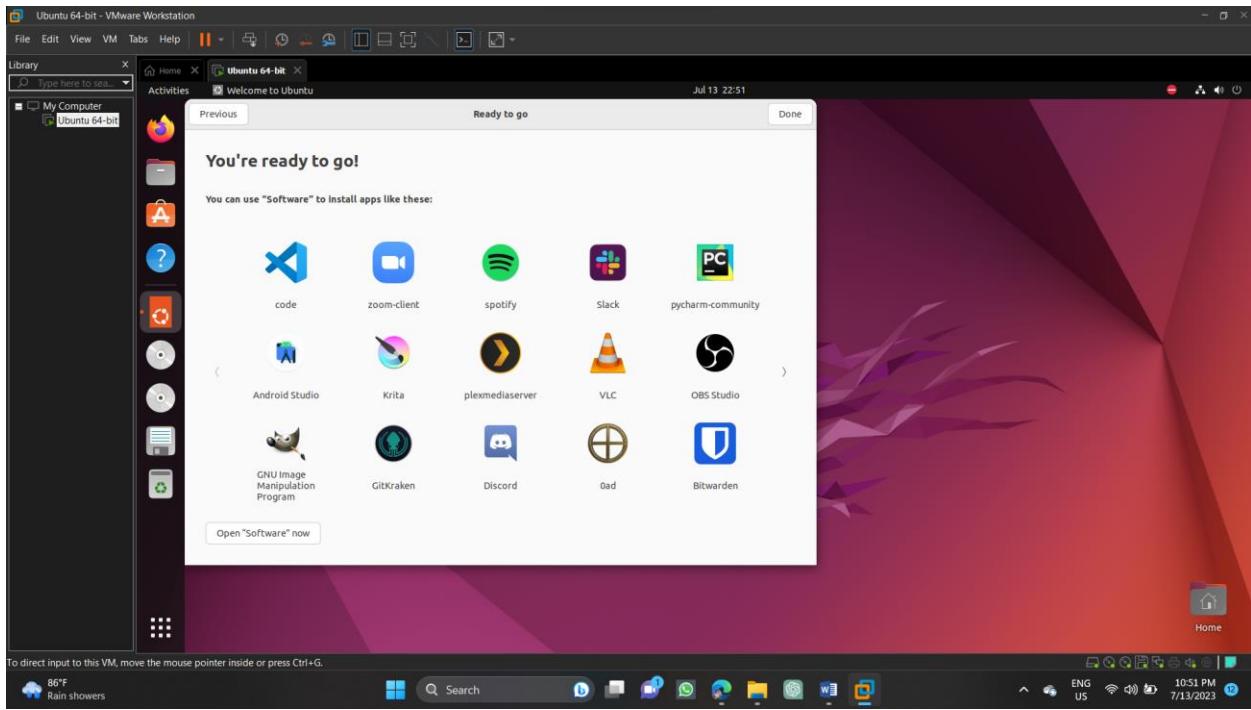
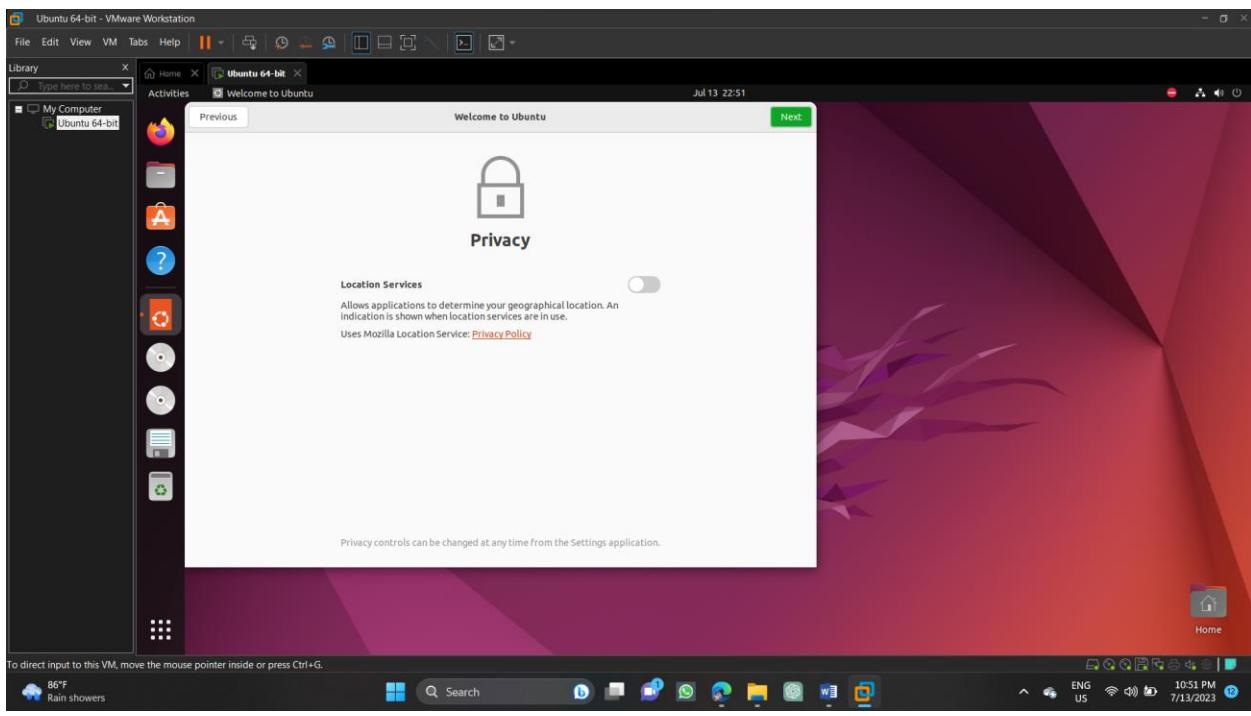


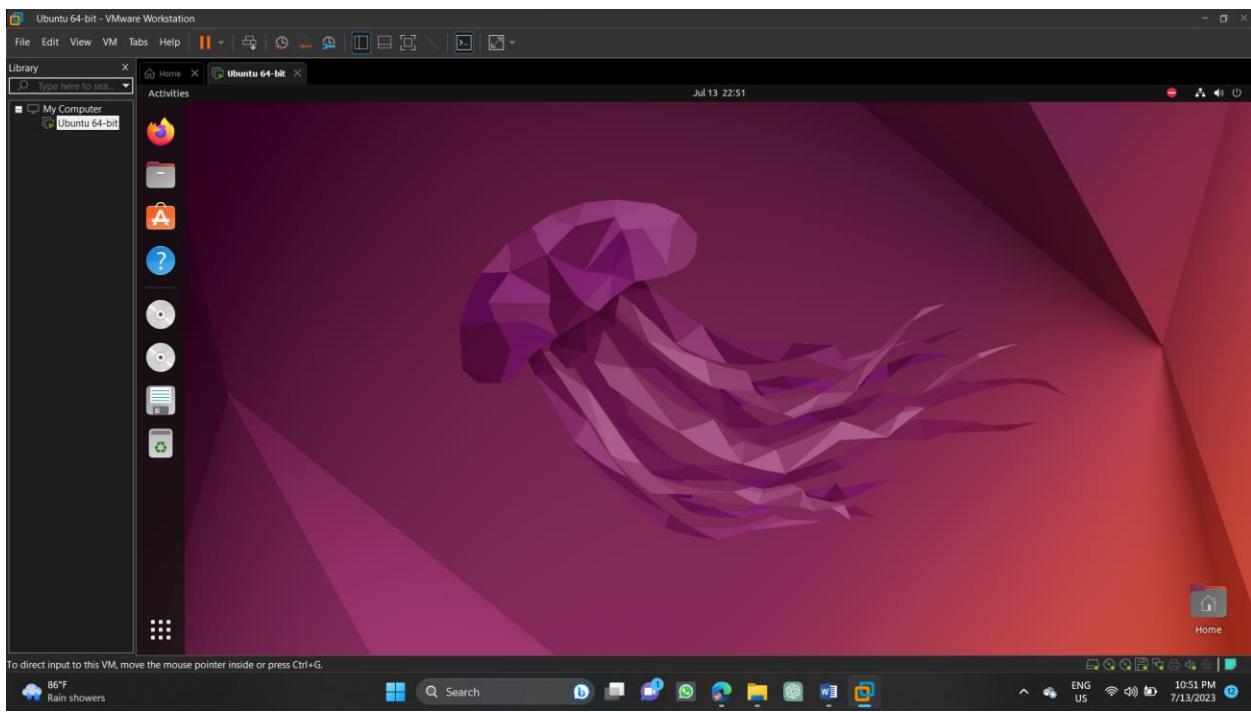




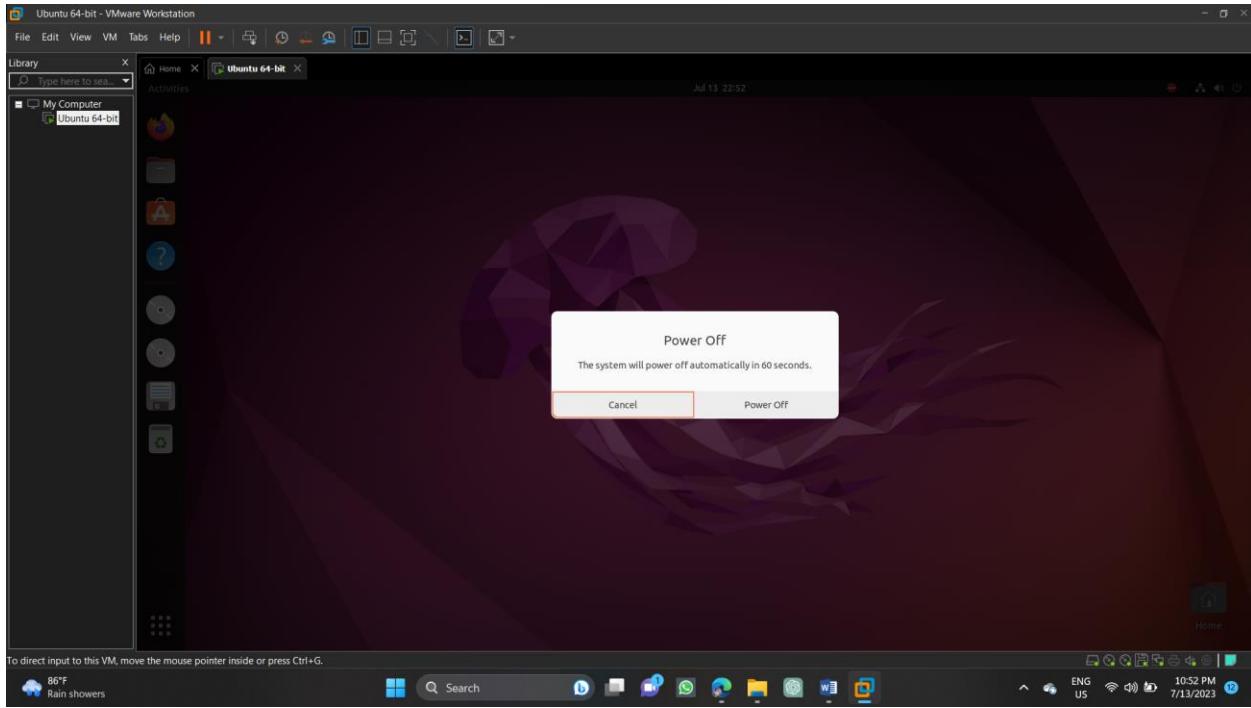
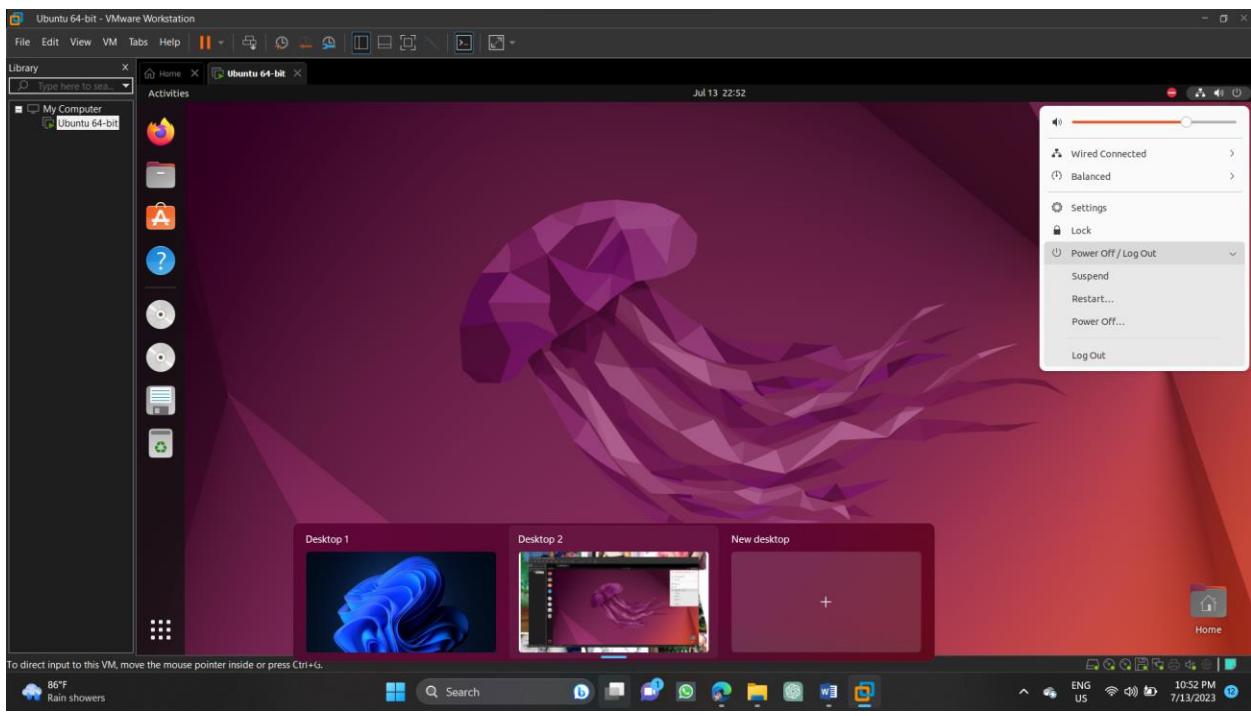


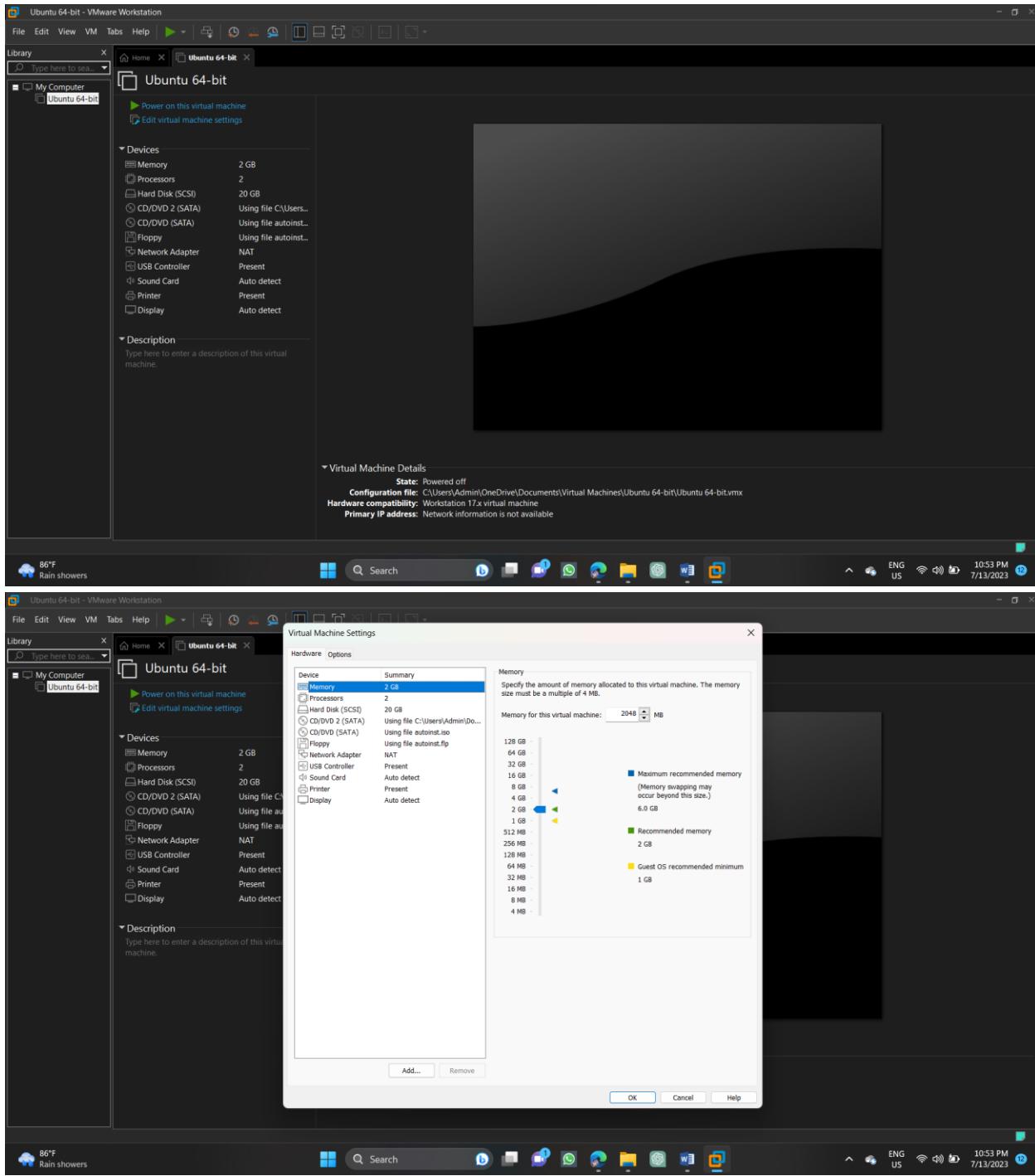




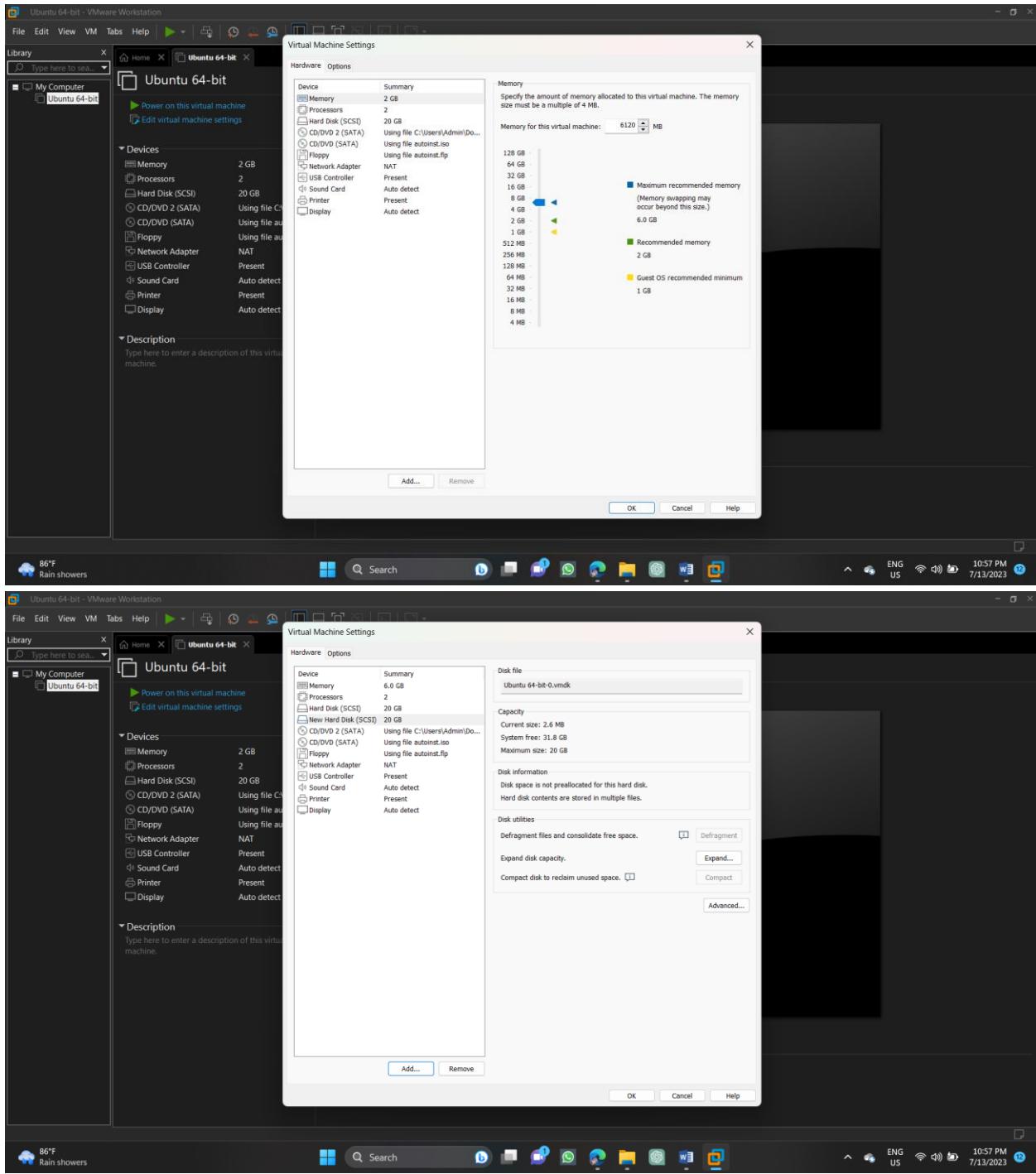


7. Create a Virtual Machine with 1 CPU, 2GB RAM and 15GB storage disk using a Type 2 Virtualization Software.

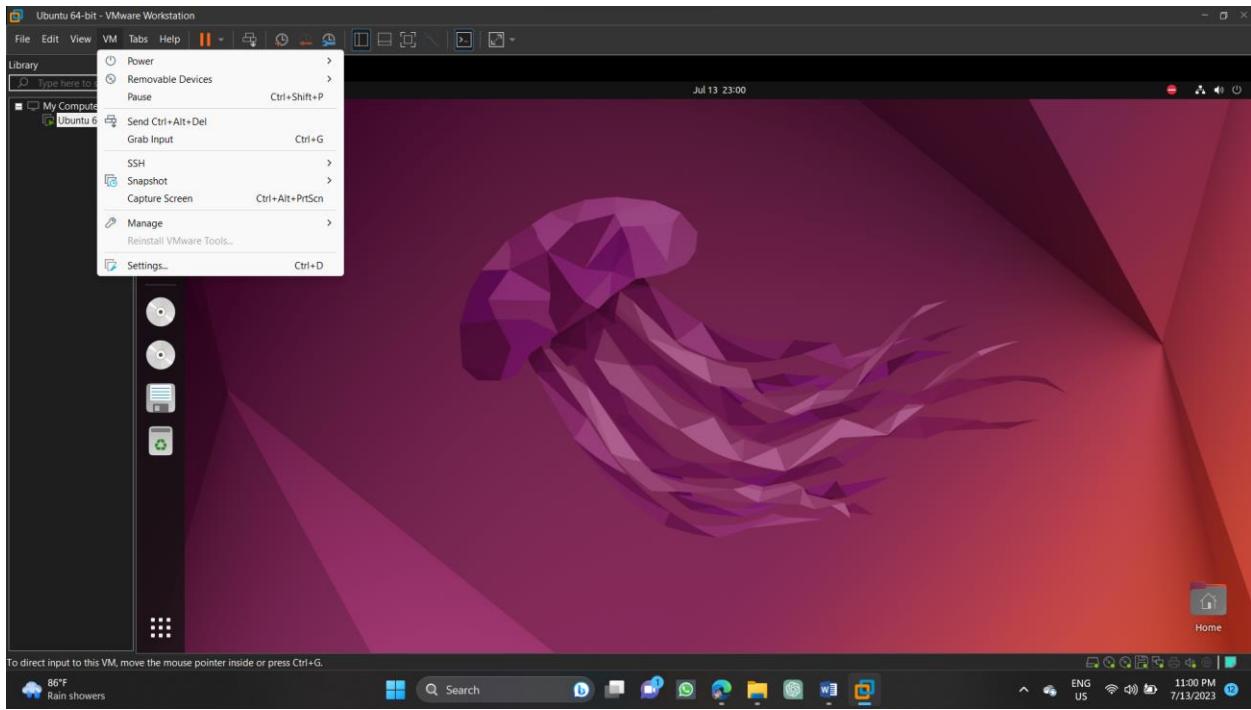
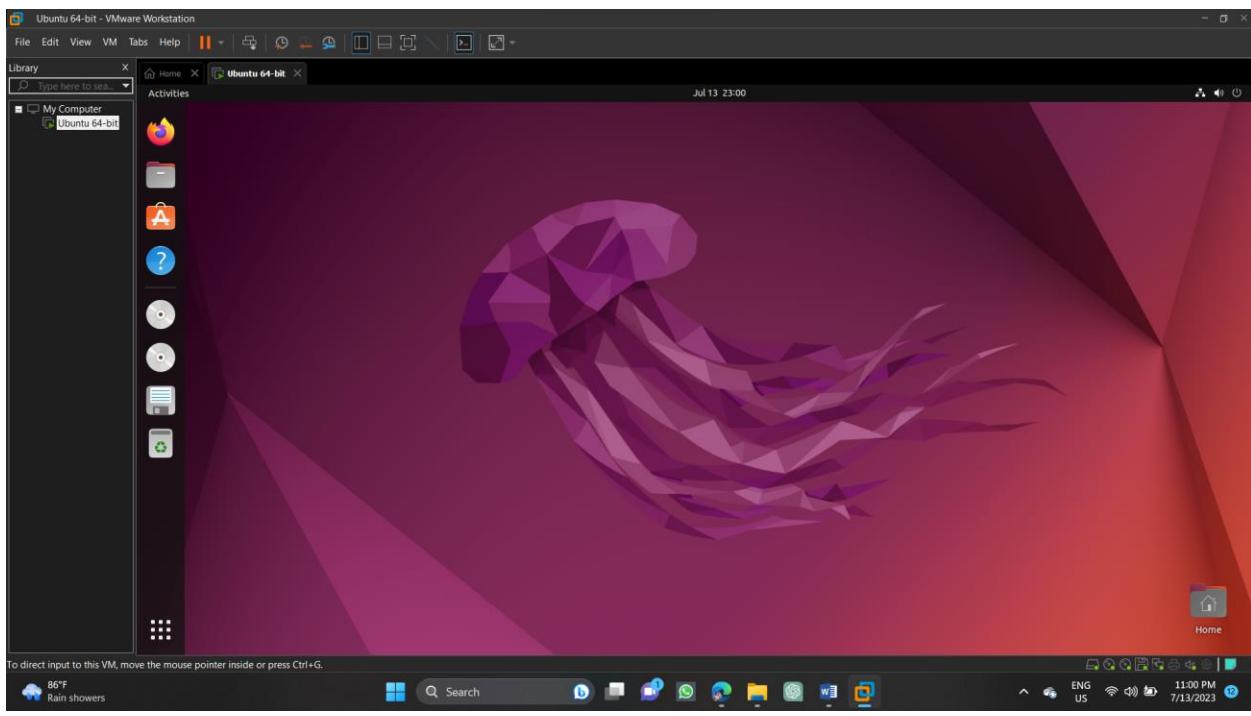


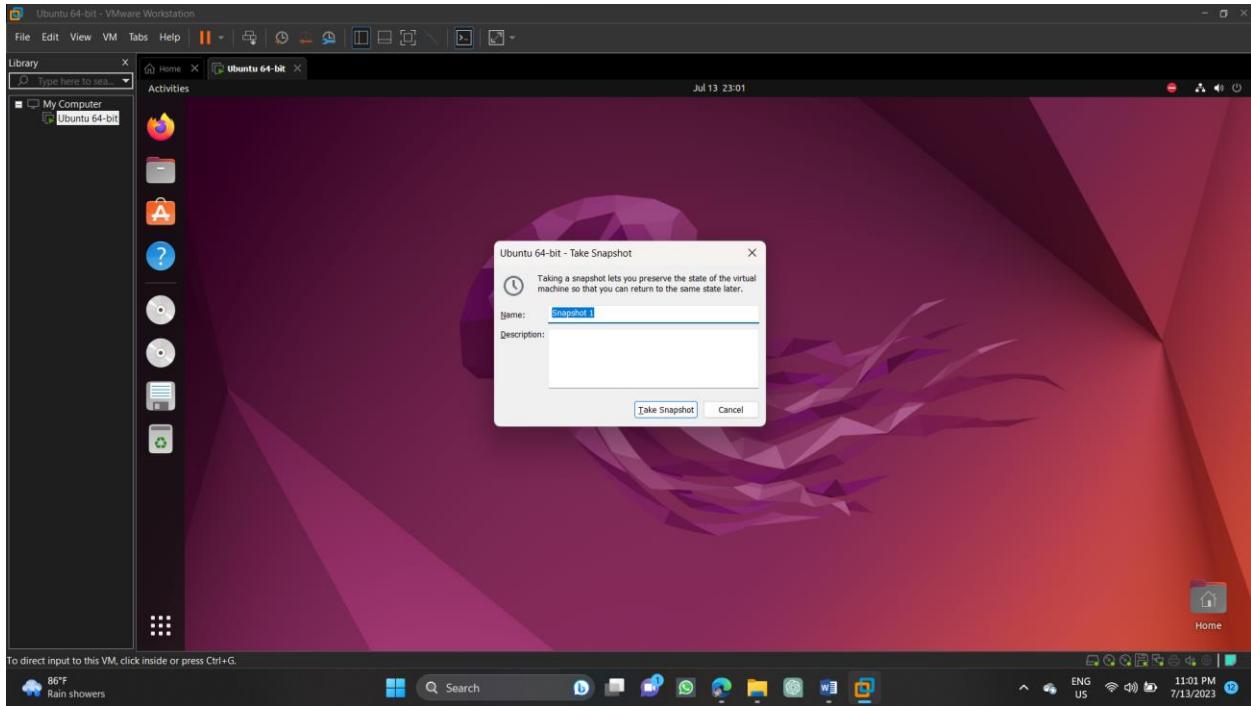
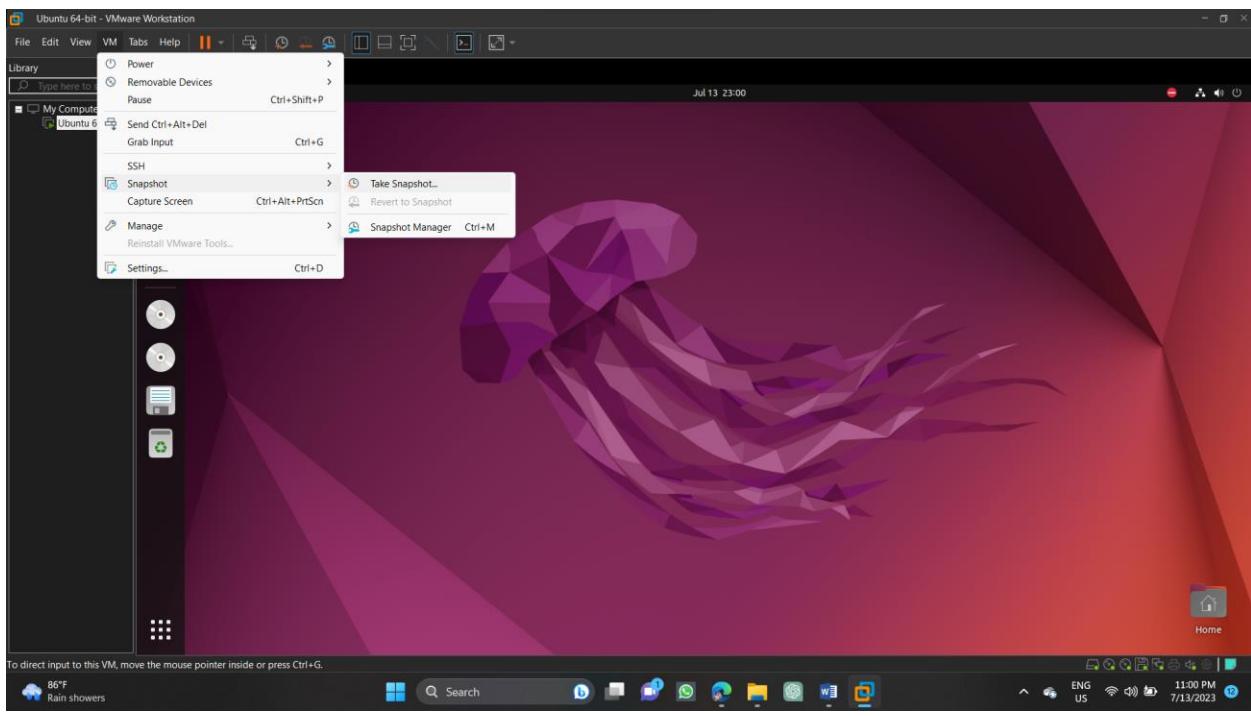


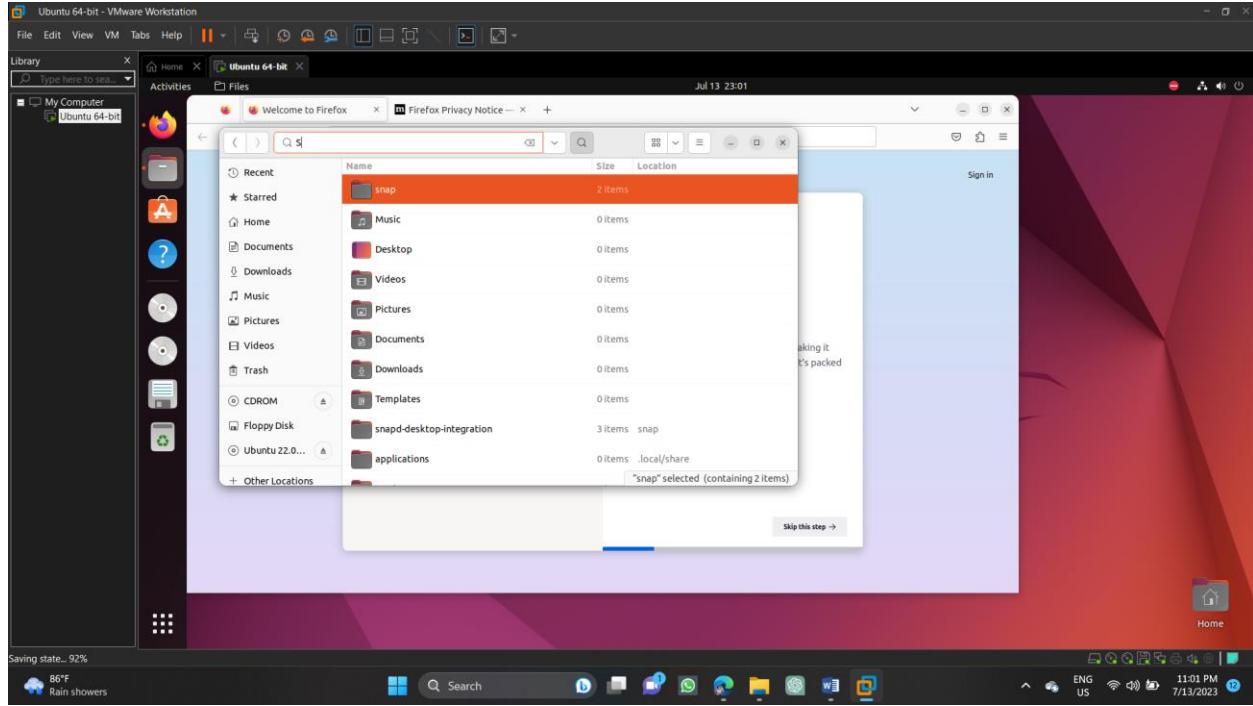
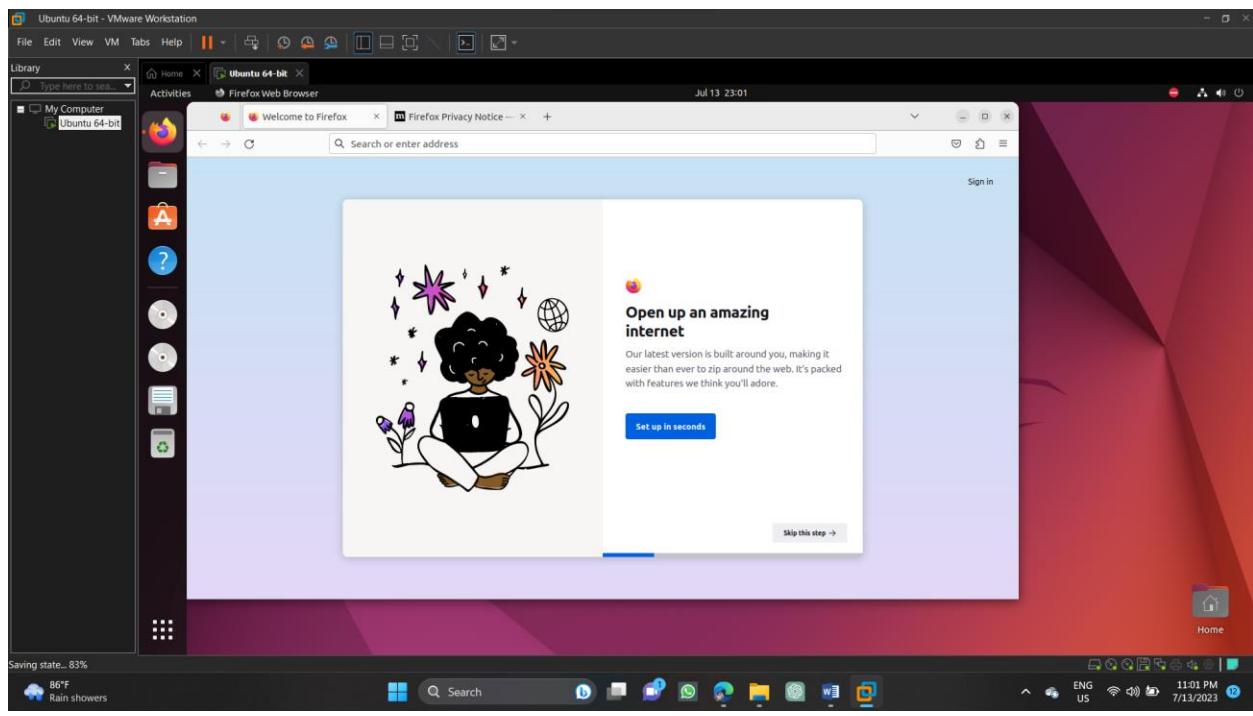
8. Create a Virtual Hard Disk and allocate the storage using VM ware Workstation

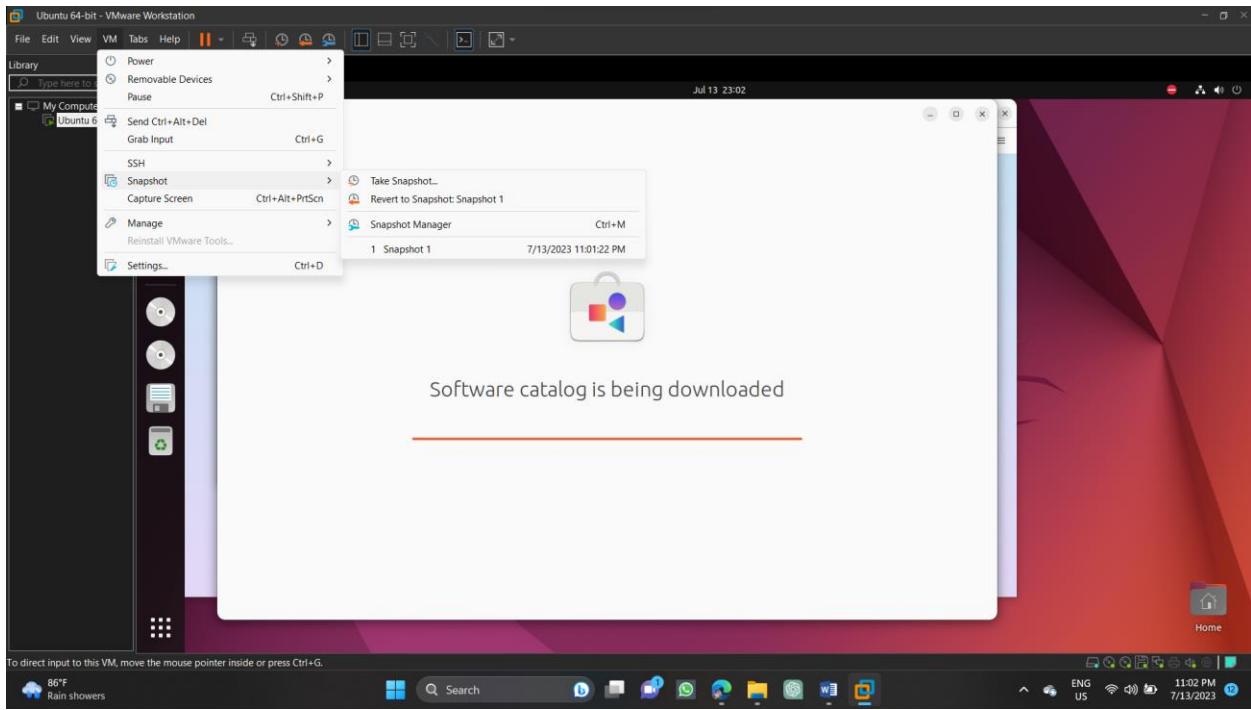
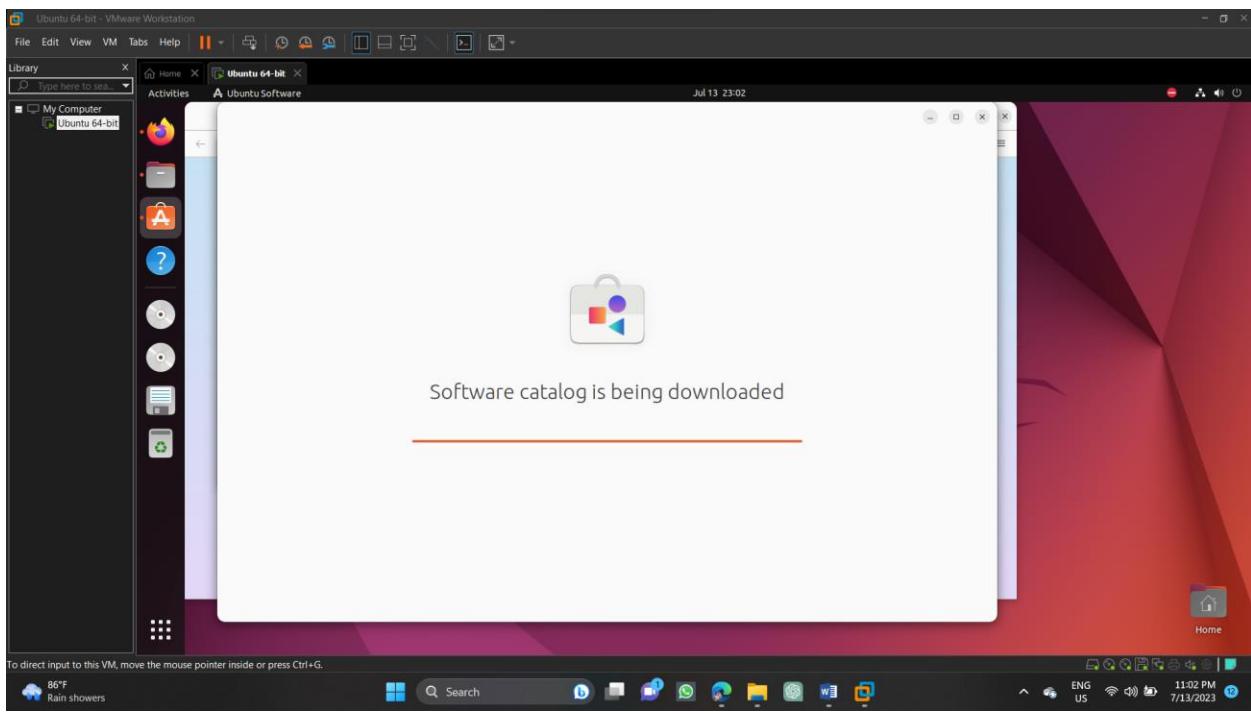


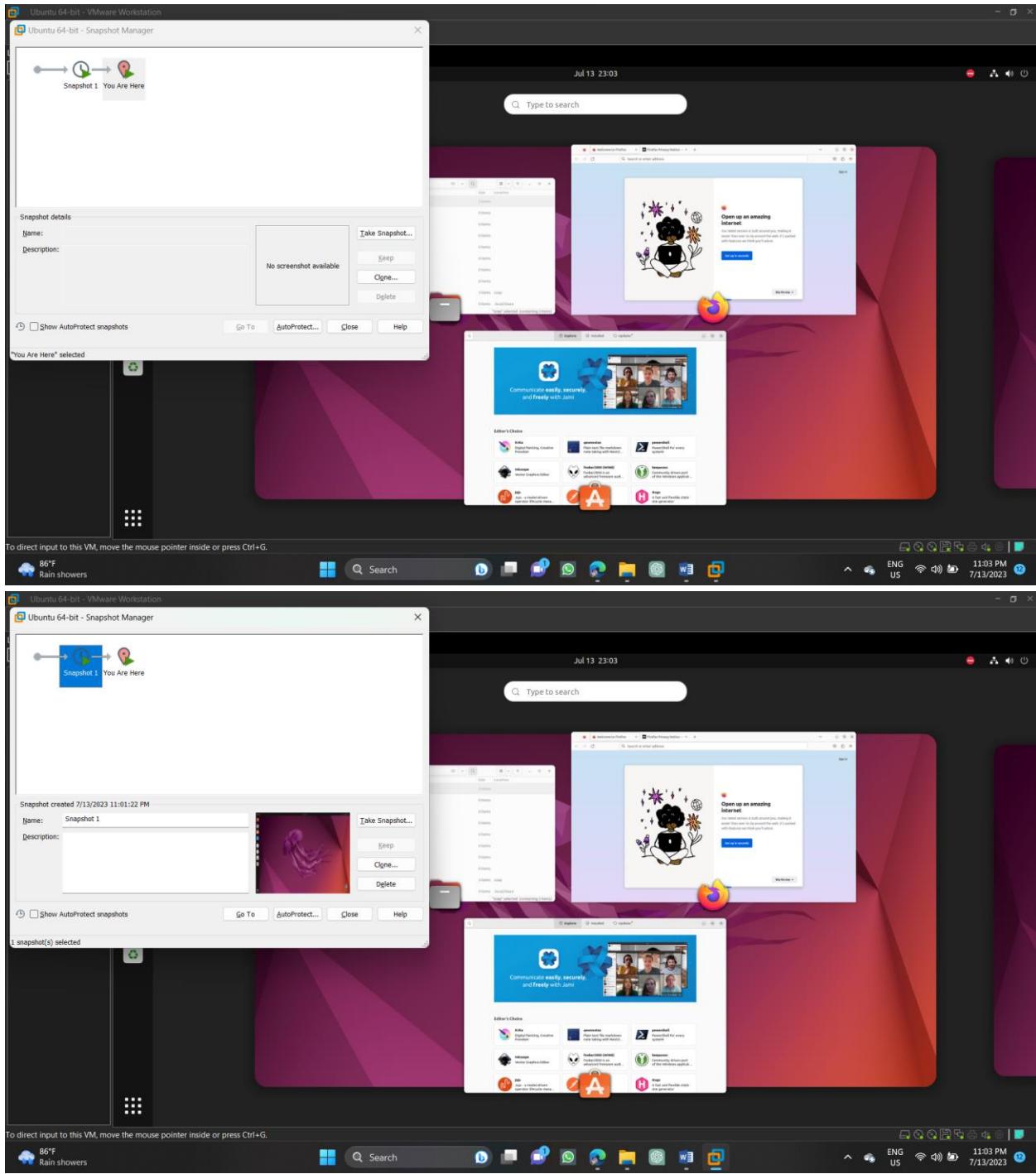
9. Create a Snapshot of a VM and Test it by loading the Previous Version/Cloned VM

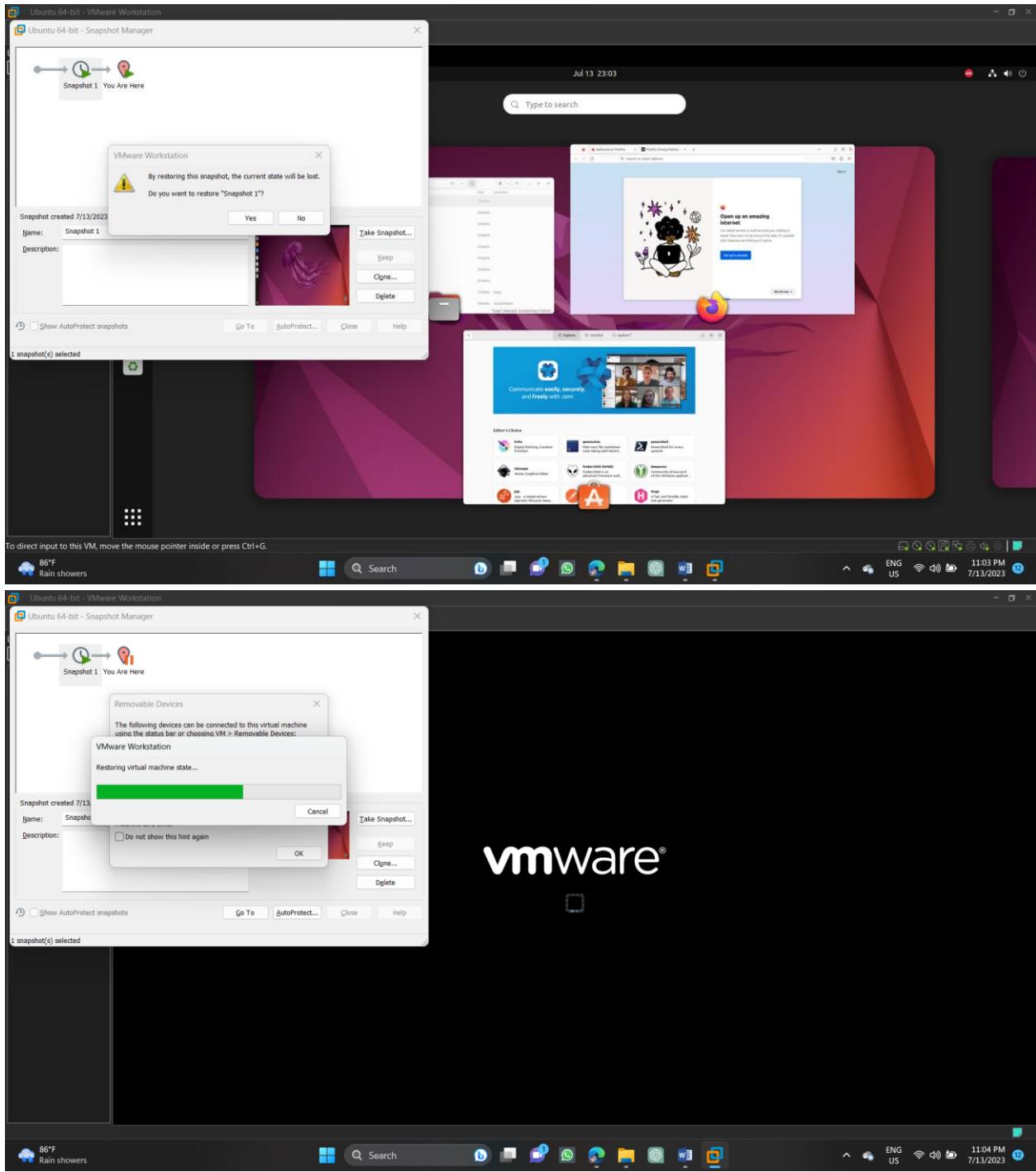


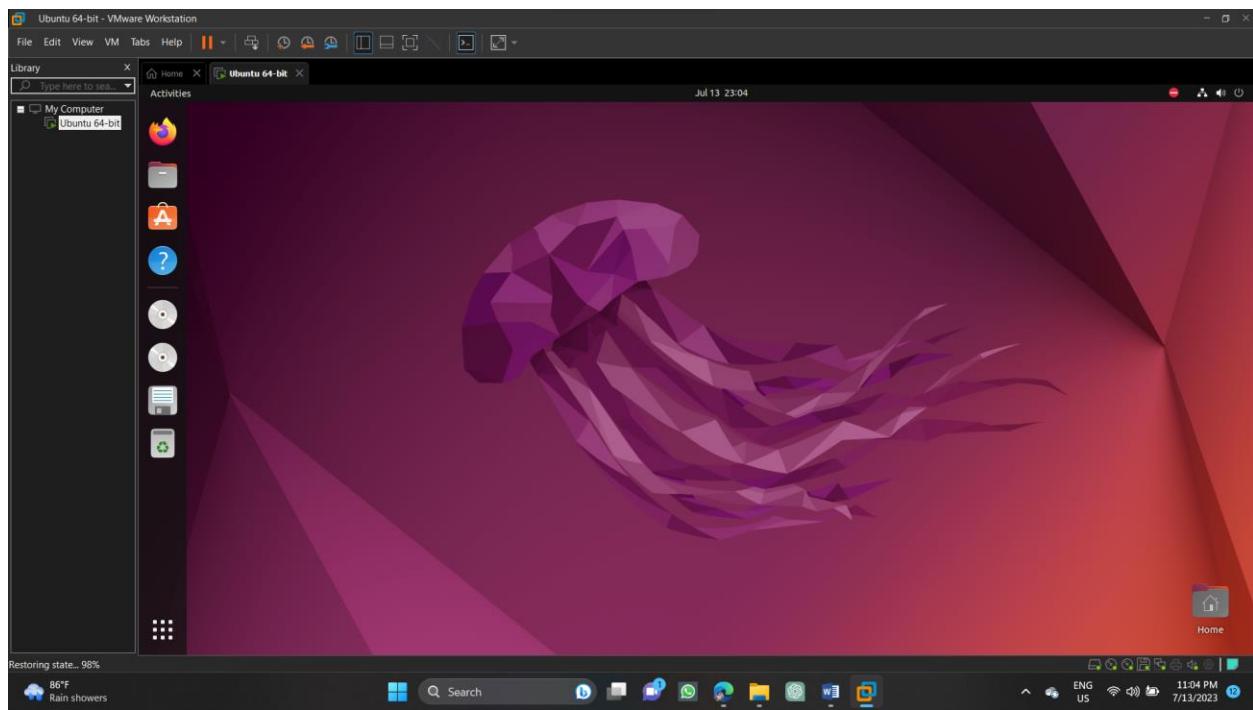




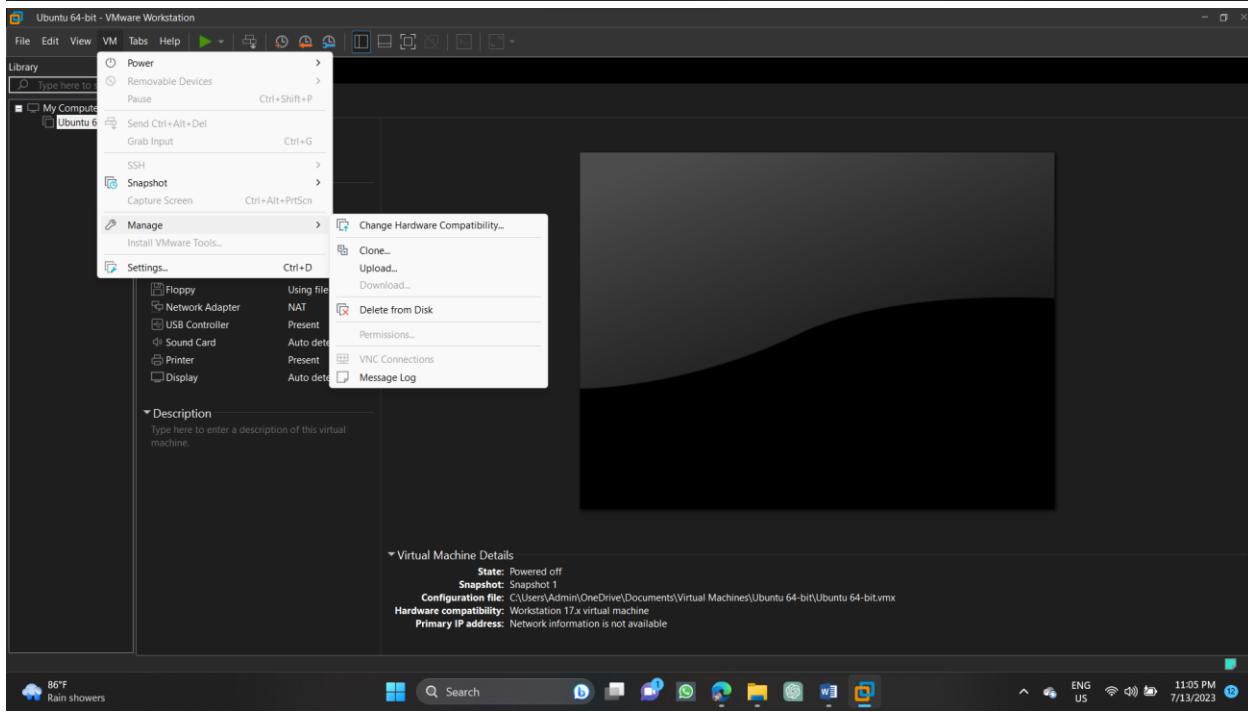
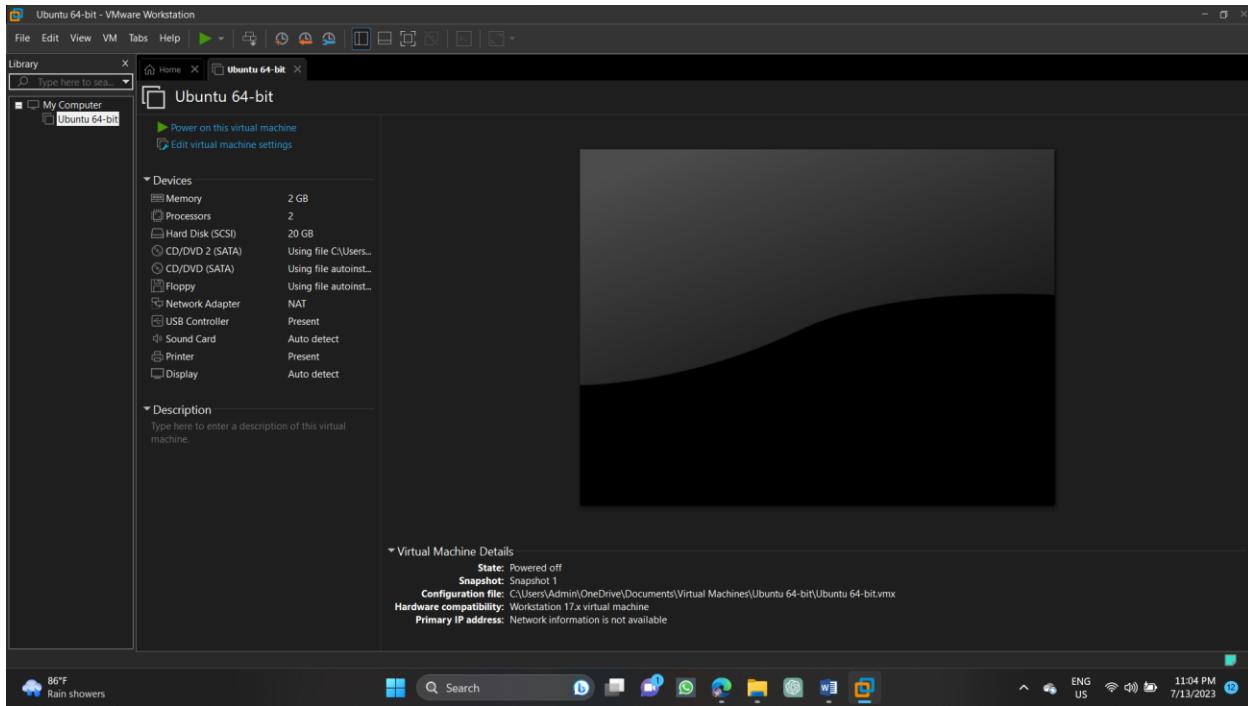


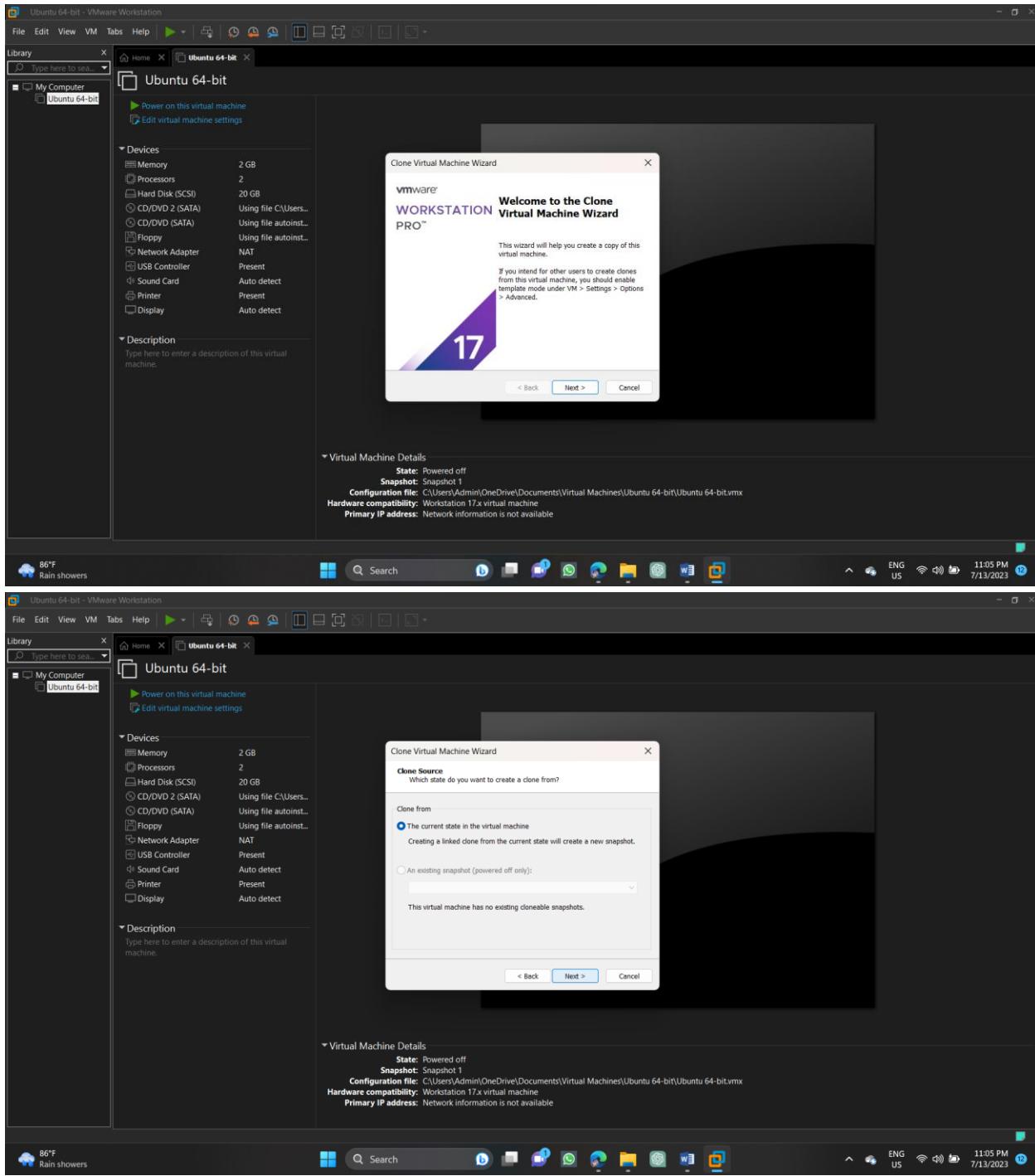


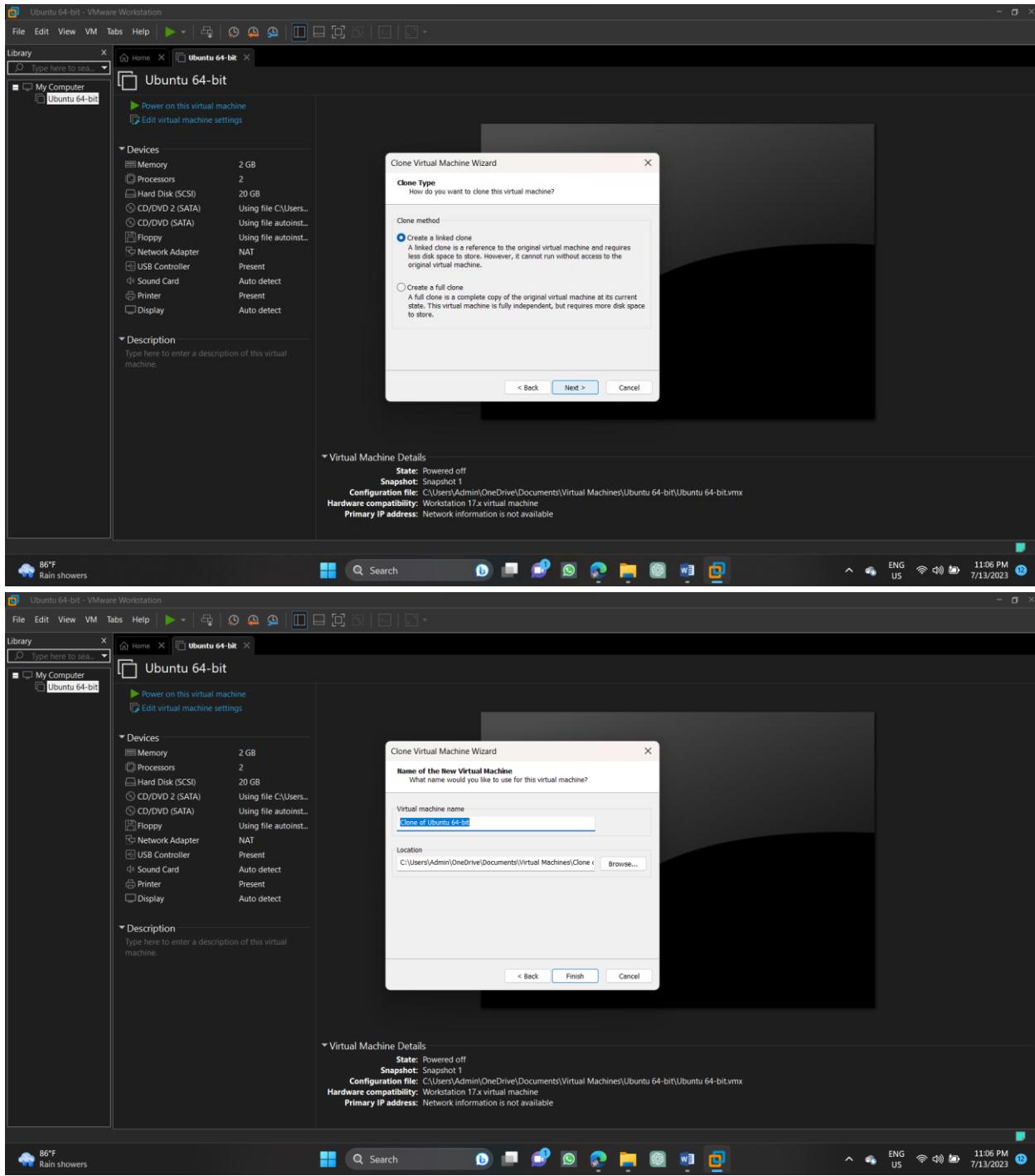


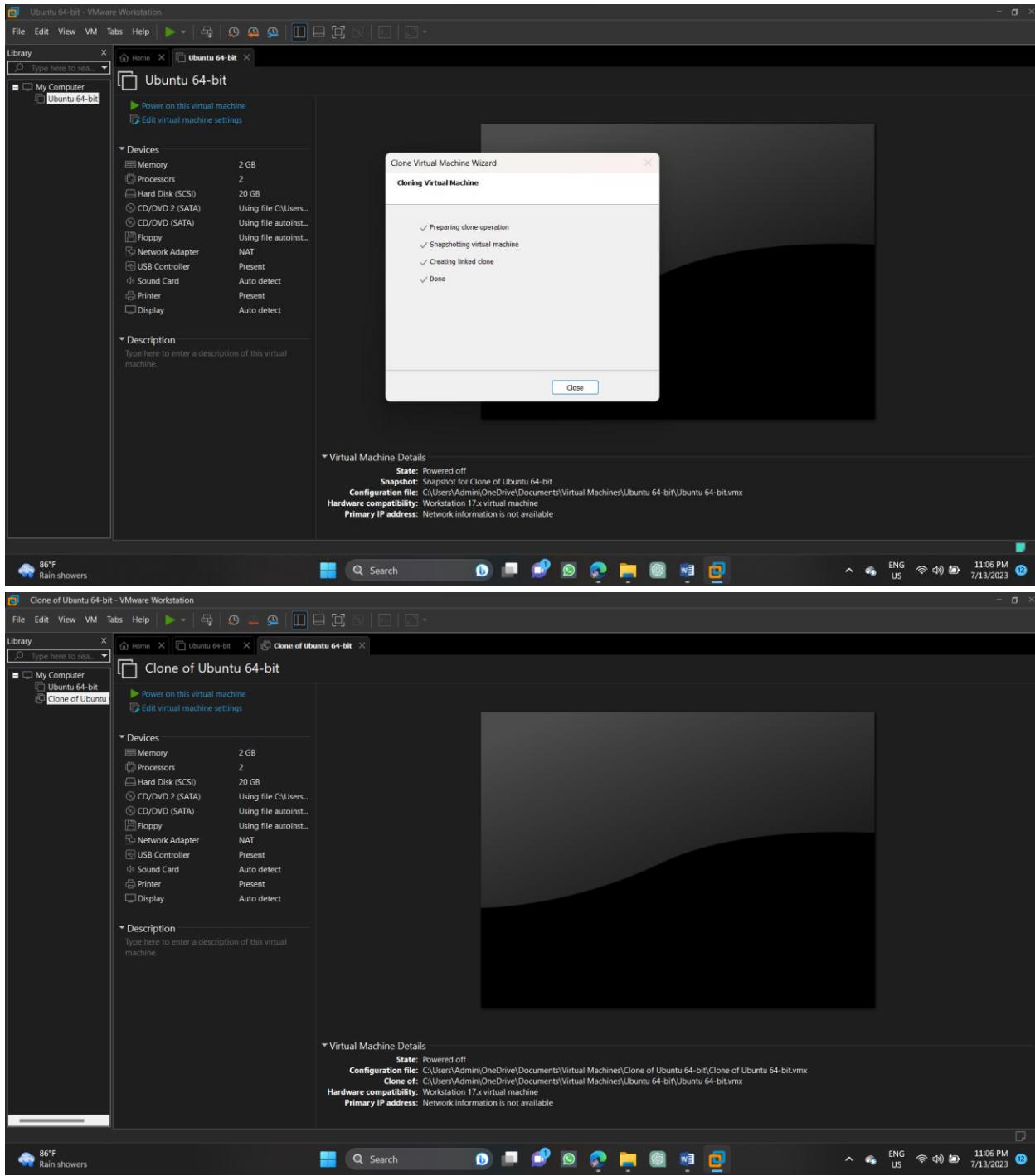


10. Create a Cloning of a VM and Test it by loading the Previous Version/Cloned VM

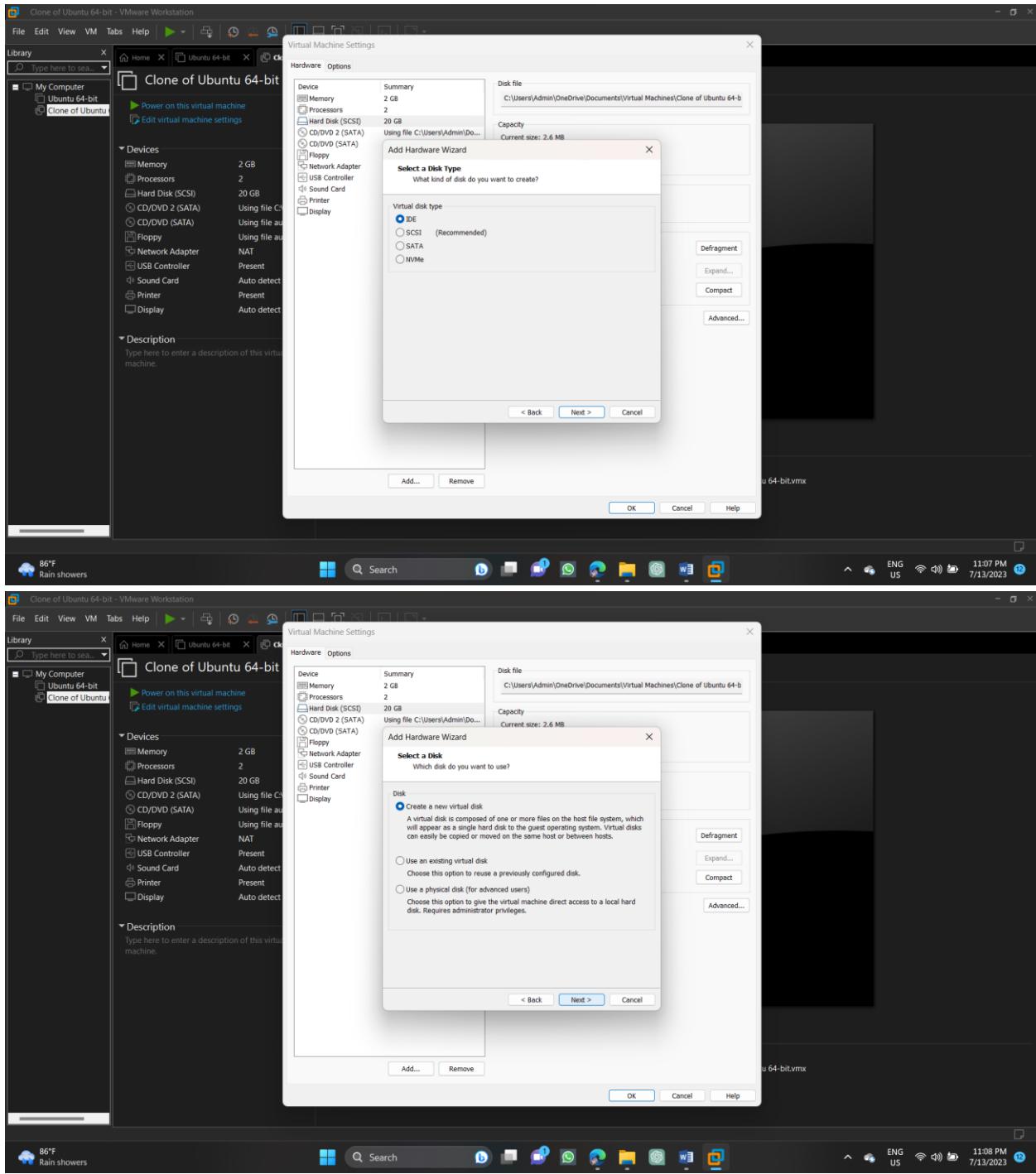


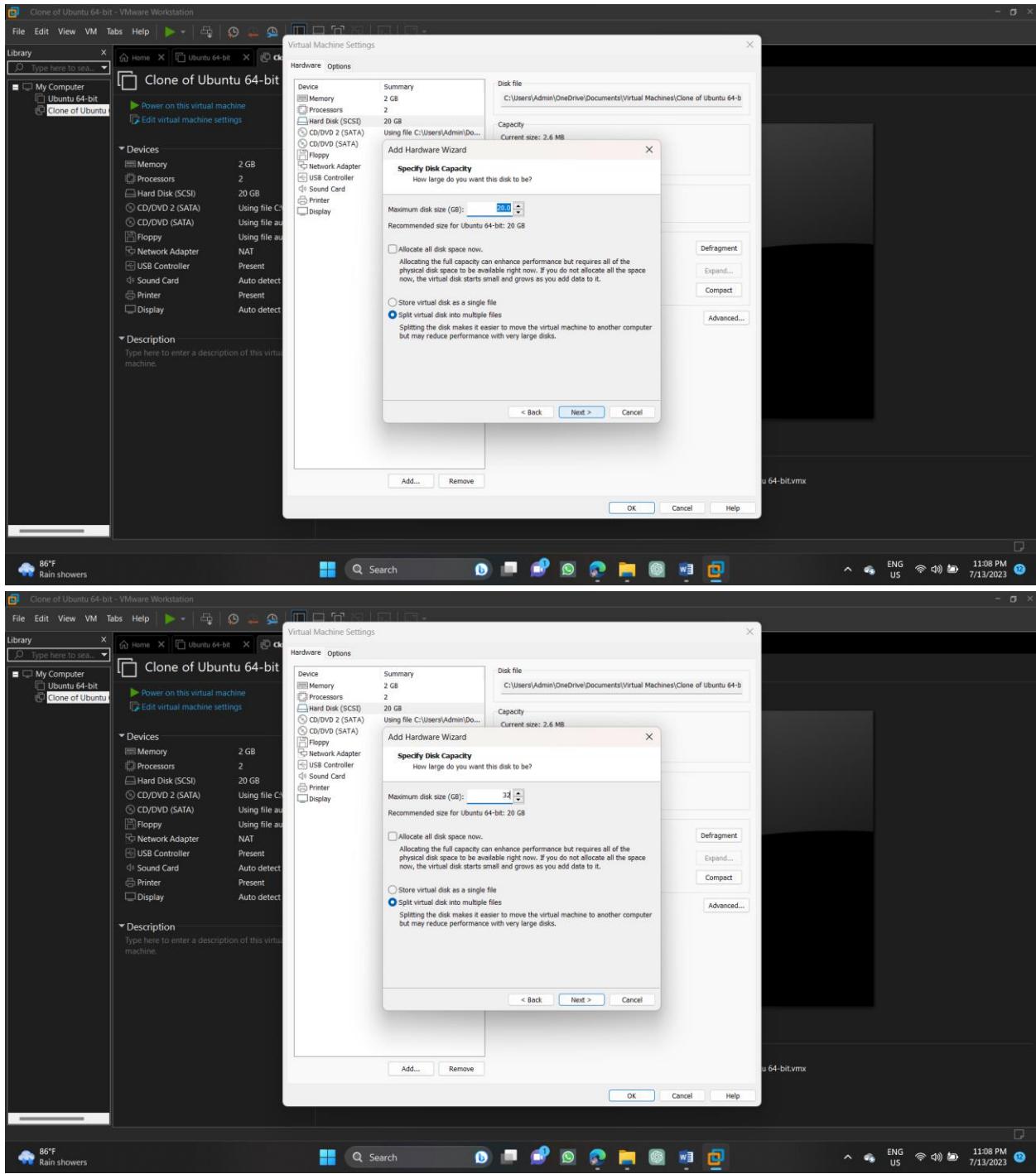


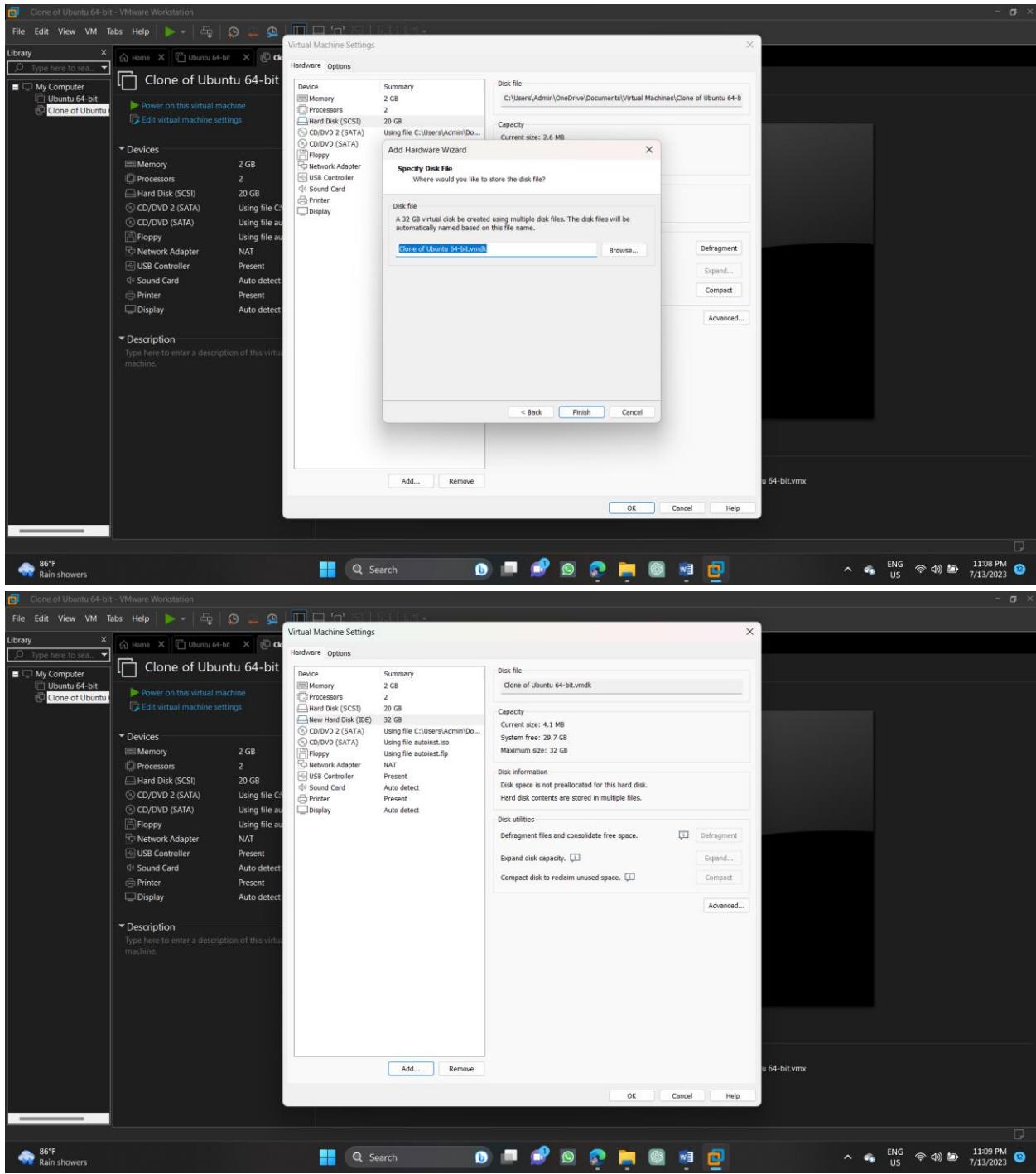




11. Change Hardware compatibility of a VM (Either by clone/create new one) which is already created and configured.







12. Demonstrate Infrastructure as a Service (IaaS) by creating a resources group using a Public Cloud Service Provider (Azure), configure with minimum CPU, RAM, and Storage.

Microsoft Azure | Overview

Home > Education | Overview

Get started Overview

Learning resources

- Roles
- Software
- Learning
- Templates
- Github

Need help?

- Support

Student offer details

Available credits: \$96 out of \$100

Days until credit expire: 363 (Expires on 07/10/2024)

View cost details

Popular solutions

- Deploy a Docker container
- Create your first Node.js app
- Create and train a Machine Learning model
- Build and deploy your first website

Free Services

- Azure Virtual Machines – Windows
- Azure Blob Storage
- Computer Vision
- Azure App Service

Explore all

Free software

- SQL Server 2019 Developer
- Machine Learning Server 9.4.7 for Windows
- Microsoft R Client 9.4

Free learning paths

- Data Scientist
- AI Engineer

Resources

- Get started guide for Azure developers
- Pricing calculator
- Optimize your cloud investment with cost

86°F Rain showers

11:12 PM 7/13/2023

Microsoft Azure | Overview

Search resources, services, and docs (G+)

akash

Resource group 10 hours ago

kiran_7aba0b9f

Virtual machine 10 hours ago

kiran_1911a868

Virtual machine 10 hours ago

Akash12_group

Resource group 10 hours ago

See all

Resource groups

Create View

Recent resources

- akash 10 hours ago
- Akash12_group 10 hours ago

Free training from Microsoft

Control and organize Azure resources with ... 8 units · 46 min

Cost Management

Analyze and optimize your cloud spend for free

mobile app

Upload on the App Store Get it on Google Play

Subscriptions

Resource groups

Tools

Microsoft Learn Learn Azure with free online training from Microsoft

Azure Monitor Monitor your apps and infrastructure

Useful links

Technical Documentation Azure Services Find an Azure expert

Overview Get started Documentation

86°F Rain showers

11:14 PM 7/13/2023

Screenshot of Microsoft Azure Resource Groups page:

The screenshot shows a list of existing resource groups. The columns are Name, Subscription, and Location.

Name	Subscription	Location
akash	Azure for Students	South India
Akash12_group	Azure for Students	South India
amma	Azure for Students	East US
azure1	Azure for Students	South India
kiran_group	Azure for Students	Central India
NetworkWatcherRG	Azure for Students	Central India

Screenshot of Create a resource group page:

The screenshot shows the 'Create a resource group' wizard. The 'Basics' step is selected.

Project details

- Subscription: Azure for Students
- Resource group: (empty input field)

Resource details

- Region: (US) East US

Buttons at the bottom: Review + create, < Previous, Next: Tags >

https://portal.azure.com/?Microsoft.Azure_Education_correlationId=7164c395e1fc441ab7e19b675acd2c&Microsoft.Azure_Education_newA4E=true...

Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * Resource group *

Resource details

Region *

[Review + create](#) [< Previous](#) [Next : Tags >](#)

Tags

86°F Rain showers

https://portal.azure.com/?Microsoft.Azure_Education_correlationId=7164c395e1fc441ab7e19b675acd2c&Microsoft.Azure_Education_newA4E=true...

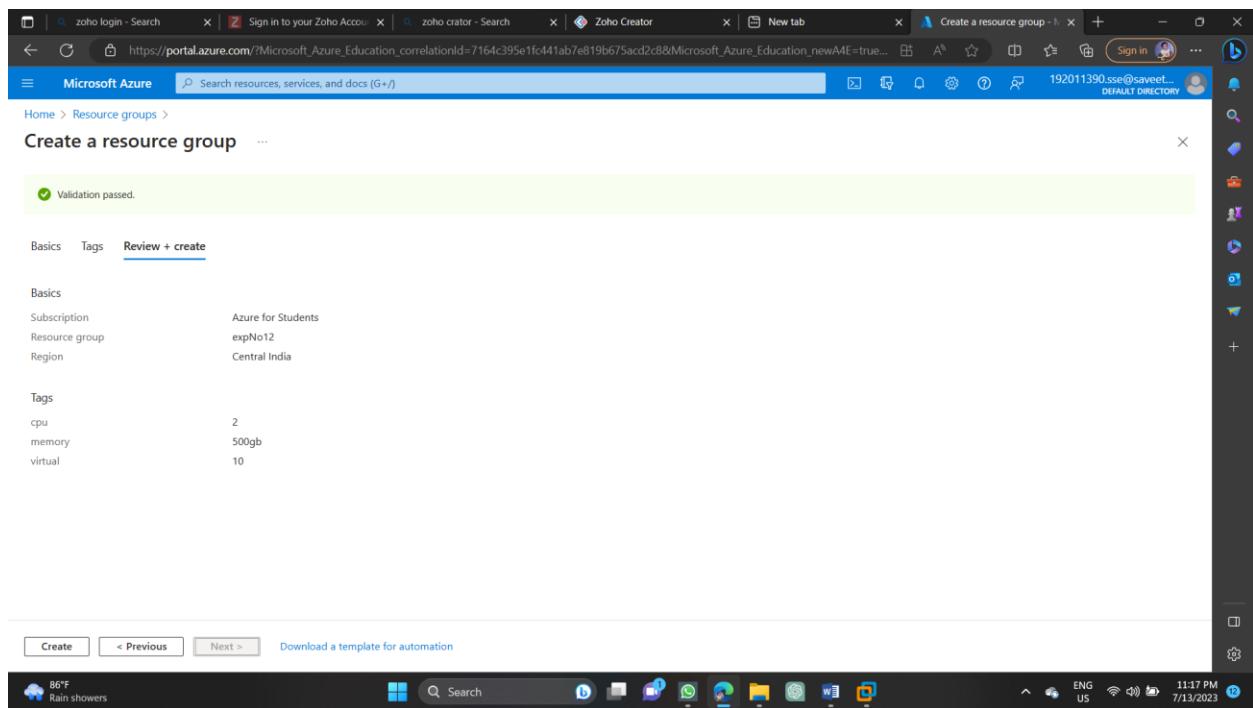
Create a resource group

Basics Tags Review + create

Apply tags to your Azure resources to logically organize them by categories. A tag consists of a key (name) and a value. Tag names are case-insensitive and tag values are case-sensitive. [Learn more](#)

Name	Value	Resource
cpu	: 2	Resource group
memory	: 500gb	Resource group
virtual	: 10	Resource group
	:	Resource group

[Review + create](#) [< Previous](#) [Next : Review + create >](#)



13. Demonstrate Infrastructure as a Service (IaaS) by creating a Virtual Machine using a Public Cloud Service Provider (Azure), configure with required memory and CPU.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for "zoho login - Search", "Sign in to your Zoho Account - Search", "zoho crator - Search", "Zoho Creator", "New tab", and "Home - Microsoft Azure". The main content area is titled "Azure services" and features a "Virtual machines" card with a "Create a resource" button, "Resource groups", "SQL databases", and "Virtual machines" (which is selected). Below this is a "Resources" section with "Recent" and "Favorite" tabs, listing resources like "VM1", "Akash12", "akash", "kiran_taba0b9f", "kiran_1911a868", and "Akash12_group". A "Recent resources" sidebar lists "VM1" (9 hours ago), "Akash12" (9 hours ago), and "kiran_taba0b9f" (10 hours ago). A "Free training from Microsoft" sidebar offers courses such as "Introduction to Azure virtual machines", "Create a Windows virtual machine in Azure", and "Create a Linux virtual machine in Azure". The bottom section is titled "Navigate" and includes links for "Subscriptions", "Resource groups", "All resources", and "Dashboard". The status bar at the bottom shows "85°F Light rain", the date and time "7/13/2023 11:23 PM", and system icons.

Virtual machines

Create a resource | Resource groups | SQL databases | Virtual machines

Recent

Name

- VM1
- Akash12
- akash
- kiran_taba0b9f
- kiran_1911a868
- Akash12_group

See all

Recent resources

- VM1 9 hours ago
- Akash12 9 hours ago
- kiran_taba0b9f 10 hours ago

Free training from Microsoft

- Introduction to Azure virtual machines
- Create a Windows virtual machine in Azure
- Create a Linux virtual machine in Azure

Navigate

Subscriptions | Resource groups | All resources | Dashboard

https://portal.azure.com/?Microsoft_Azure_Education_correlationId=7164c395e1fc441ab7e19b675acd2c&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=fad0a60-6a37-4cdd-824a-87c177db79f5#blade/HubsExtension/BrowseReso...

85°F Light rain | ENG US | 7/13/2023 11:23 PM

Virtual machines

Create a virtual machine hosted by Azure

Type equals all | Resource group equals all | Location equals all | Add filter

	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address
VM1	Azure for Students	Akash12_group	South India	Running	Linux	Standard_D2s_v3	20.235.41.18
More VMs and related solutions	Azure for Students	kiran_group	Central India	Running	Linux	Standard_D2s_v3	20.204.183.137
	Azure for Students	kiran_group	Central India	Running	Linux	Standard_D2s_v3	20.204.183.160
	Virtual machine	akash	South India	Running	Linux	Standard_D2s_v3	20.235.129.2

< Previous | Page 1 of 1 | Next > | Give feedback

85°F Rain to stop | ENG US | 7/13/2023 11:24 PM

Screenshot of the Microsoft Azure 'Create a virtual machine' wizard - Step 1: Basics.

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The user is on the 'Basics' tab. The subscription is set to 'Azure for Students' and the resource group is '(New) Resource group'. The virtual machine name is left blank. The region is '(Asia Pacific) Central India'. Availability options are 'No infrastructure redundancy required'. Security type is 'Trusted launch virtual machines'. The image selected is 'Ubuntu Server 20.04 LTS - x64 Gen2'. The VM architecture is 'x64'. The size selected is 'Standard_E2s_v3 - 2 vcpus, 16 GiB memory (₹7,854.23/month)'. The user has completed the 'Project details' section, which includes selecting a subscription and resource group.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Resource group *

Virtual machine name *

Region *

Availability options

Security type

Image *

VM architecture

Run with Azure Spot discount

Size *

85°F Rain to stop

zoho login - Search | Sign in to your Zoho Account | zoho crator - Search | Zoho Creator | New tab | Create a virtual machine - | + | - | x | Microsoft Azure | Search resources, services, and docs (G+) | 192011390.sse@savet... | Sign in | ... | b | Home > Virtual machines > Create a virtual machine | ... | Microsoft Azure | Search resources, services, and docs (G+) | 192011390.sse@savet... | Sign in | ... | b | 11:24 PM | 7/13/2023 | ENG US | Wi-Fi | Battery | 11:28 PM | 7/13/2023 | ENG US | Wi-Fi | Battery

Screenshot of the Microsoft Azure portal showing the 'Create a virtual machine' wizard.

The current step is 'Networking'.

Virtual network: kiran_group-vnet

Subnet: default (10.0.0.0/20)

Public IP: (new) kiran-ip

NIC network security group: Basic

Public inbound ports: Allow selected ports

Buttons: Review + create, < Previous, Next : Management >, Give feedback

The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The URL in the address bar is https://portal.azure.com/?Microsoft.Azure_Education_correlationId=7164c395e1fc441ab7e819b675acd2c&Microsoft.Azure_Education_newA4.... The page title is "Create a virtual machine".

The "Management" tab is selected, showing configuration options for the VM's identity. It includes sections for "Identity" (checkbox for "Enable system assigned managed identity"), "Azure AD" (checkbox for "Login with Azure AD" with a note about RBAC role assignment), and "Auto-shutdown" (checkbox). Navigation buttons at the bottom include "Review + create", "< Previous", "Next : Monitoring >", and "Give feedback".

Identity

Enable system assigned managed identity

Azure AD

Login with Azure AD RBAC role assignment of Virtual Machine Administrator Login or Virtual Machine User Login is required when using Azure AD login. [Learn more](#)

1 Azure AD login now uses SSH certificate-based authentication. You will need to use an SSH client that supports OpenSSH certificates. You can use Azure CLI or Cloud Shell from the Azure Portal. [Learn more](#)

Auto-shutdown

[Review + create](#) [< Previous](#) [Next : Monitoring >](#) [Give feedback](#)

The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The URL in the address bar is https://portal.azure.com/?Microsoft.Azure_Education_correlationId=7164c395e1fc441ab7e819b675acd2c&Microsoft.Azure_Education_newA4.... The page title is "Create a virtual machine".

The "Monitoring" tab is selected, showing configuration options for monitoring. It includes sections for "Alerts" (checkbox for "Enable recommended alert rules") and "Diagnostics" (radio buttons for "Boot diagnostics" settings: "Enable with managed storage account (recommended)" (selected), "Enable with custom storage account", and "Disable"). It also includes a checkbox for "Enable OS guest diagnostics". Navigation buttons at the bottom include "Review + create", "< Previous", "Next : Advanced >", and "Give feedback".

Alerts

Enable recommended alert rules

Diagnostics

Boot diagnostics Enable with managed storage account (recommended) Enable with custom storage account Disable

Enable OS guest diagnostics

[Review + create](#) [< Previous](#) [Next : Advanced >](#) [Give feedback](#)

zoho login · Search | Sign in to your Zoho Account · zoho crator · Search | Zoho Creator | New tab | Create a virtual machine -> | + | - | x

Microsoft Azure Kiran

Home > Virtual machines >

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Extensions

Extensions provide post-deployment configuration and automation.

Extensions Select an extension to install

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

Select a VM application to install

Custom data and cloud init

Pass a cloud-init script, configuration file, or other data into the virtual machine while it is being provisioned. The data will be saved on the VM in a known location. [Learn more about custom data for VMs](#)

Custom data

Review + create < Previous Next : Tags > Give feedback

zoho login · Search | Sign in to your Zoho Account · zoho crator · Search | Zoho Creator | New tab | Create a virtual machine -> | + | - | x

Microsoft Azure Kiran

Home > Virtual machines >

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
cpu	: 2	All resources
memory	: 500gb	13 selected
	: 500gb	13 selected

Review + create < Previous Next : Review + create > Give feedback

85°F Light rain

zoho login · Search | Sign in to your Zoho Account · zoho crator · Search | Zoho Creator | New tab | Create a virtual machine -> | + | - | x

Microsoft Azure | Kiran

Home > Virtual machines >

Create a virtual machine

Validation passed

Price

1 X Standard E2s v3 by Microsoft Subscription credits apply ⓘ

10.7592 INR/hr Pricing for other VM sizes

[Terms of use](#) | [Privacy policy](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name: kadapala kiran kumar Reddy

Preferred e-mail address: 192011390.sse@saveetha.com

Preferred phone number:

⚠ You have set SSH port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Create | < Previous | Next > | Download a template for automation | Give feedback

85°F Light rain

zoho login · Search | Sign in to your Zoho Account · zoho crator · Search | Zoho Creator | New tab | Create a virtual machine -> | + | - | x

Microsoft Azure | Kiran

Home > Virtual machines >

Create a virtual machine

Validation passed

Basics

Subscription	Azure for Students
Resource group	kiran_group
Virtual machine name	kiran
Region	Central India
Availability options	No infrastructure redundancy required
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable VTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 20.04 LTS - Gen2
VM architecture	x64
Size	Standard E2s v3 (2 vcpus, 16 GiB memory)
Authentication type	Password
Username	Kiran
Public inbound ports	SSH
Azure Spot	No

Disks

Creating C:\KIRAN\... | Previous | Next | Download a template for automation | Give feedback

85°F Light rain

Create a virtual machine

Validation passed

Disks

OS disk type	Premium SSD LRS
Use managed disks	Yes
Delete OS disk with VM	Enabled
Ephemeral OS disk	No

Networking

Virtual network	kiran_group-vnet
Subnet	default (10.0.0.0/20)
Public IP	(new) kiran-ip
Accelerated networking	On
Place this virtual machine behind an existing load balancing solution?	No
Delete public IP and NIC when VM is deleted	Disabled

Management

Microsoft Defender for Cloud	Basic (free)
System assigned managed identity	Off
Login with Azure AD	Off

CreateVm-canonical.0001-com-ubuntu-server-focal-2-20230713232555 | Overview

Deployment

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f...
Subscription: Azure for Students
Resource group: kiran_group

Start time: 7/13/2023, 11:34:58 PM
Correlation ID: ba0fbe91-6258-495e-a7e6-bd931d1a3b31

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback
[Tell us about your experience with deployment](#)

Microsoft Defender for Cloud
Secure your apps and infrastructure
[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials
Start learning today >

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
[Find an Azure expert >](#)

14. Demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop.

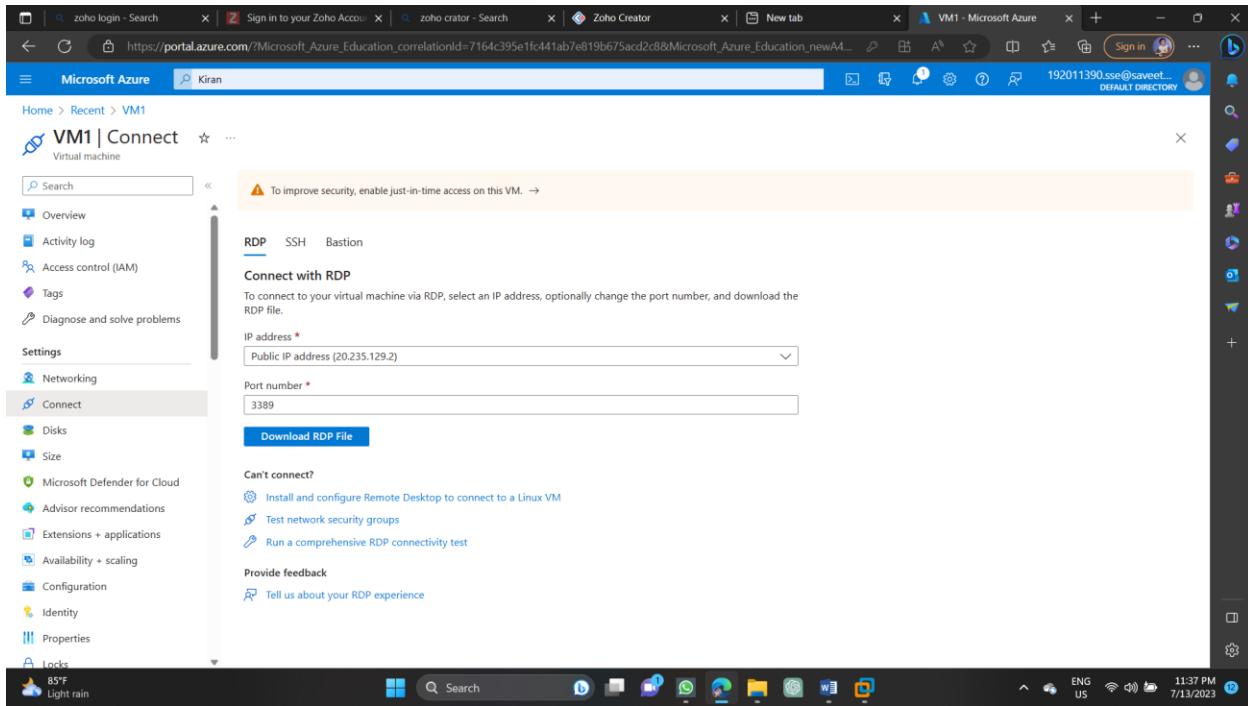
The screenshot shows two side-by-side views of the Microsoft Azure portal, both titled "VM1 - Microsoft Azure".

Top View (VM1 Overview):

- Essentials:**
 - Resource group (move) : akash
 - Status : Running
 - Location : South India
 - Subscription (move) : Azure for Students
 - Subscription ID : ffad0a60-6a37-4cdd-82a7-87c177db79f5
 - Operating system : Linux (ubuntu 20.04)
 - Size : Standard D2s v3 (2 vcpus, 8 GiB memory)
 - Public IP address : 20.235.129.2
 - Virtual network/subnet : VM1-vnet/default
 - DNS name : Not configured
 - Health state : -
- Properties:** Virtual machine, Networking, Capabilities (7), Recommendations, Tutorials.
- Networking:** Public IP address: 20.235.129.2 (Network interface vm1764), Private IP address: 10.2.0.4, Private IP address (IPv6): -, Virtual network/subnet: VM1-vnet/default, DNS name: Configure.
- Size:** Standard D2s v3 (2 vcpus, 8 GiB memory).

Bottom View (VM1 | Connect):

- Connect:** RDP, SSH, Bastion.
- SSH:**
 - Connect via SSH with client:**
 - Open the client of your choice, for example WSL on Windows, Terminal on Mac or Shell on Linux.
 - Ensure you have read-only access to the private key. Chmod is only supported on Linux subsystems (e.g. WSL on Windows or Terminal on Mac).
chmod 400 <keyname>.pem
 - Provide a path to your SSH private key file. Replace/reset your SSH private key.
Private key path: /-/ssh/<keyname>.pem
 - Run the example command below to connect to your VM.
ssh -i <private key path> Virtual1@20.235.129.2
 - Can't connect?**
 - Test network security groups
 - Run a comprehensive SSH connectivity test
 - Provide feedback:** Tell us about your SSH experience



15. Demonstrate Platform as a Service (PaaS) create and configure a new VM Image in any Public Cloud Service Provider

Essentials	Properties	Networking
Resource group : akash	Operating system : Linux (ubuntu 20.04)	Public IP address : 20.235.129.2
Status : Running	Size : Standard D2s v3 (2 vcpus, 8 GiB memory)	Private IP address : -
Location : South India	Public IP address : 20.235.129.2	Private IP address (IPv6) : -
Subscription : Azure for Students	Virtual network/subnet : VM1-vnet/default	Virtual network/subnet : VM1-vnet/default
Subscription ID : ffad0a60-6a37-4cd-824a-87c177db79f5	DNS name : Not configured	DNS name : Configure
Tags : virtual : 10	Health state : -	

16. Create a Simple Web Application using Java or Python and host it in any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Platform as a Service (PaaS).

Screenshot of Microsoft Azure Portal showing the "All services" view and the "App Services" blade.

The "All services" view on the left sidebar lists categories such as AI + machine learning, Analytics, Compute, Containers, Databases, DevOps, General, Hybrid + multicloud, Identity, Integration, Internet of Things, Management and governance, Migration, Mixed reality, and Monitor. The "App Services" blade is selected.

The "App Services" blade displays the following information:

- Description:** Create, build, deploy, and manage powerful web, mobile, and API apps for employees or customers using a single back-end. Build standards-based web apps and APIs using .NET, Java, Node.js, PHP, and Python.
- Free training from Microsoft:**
 - Host a web application with Azure App service... (7 units · 1 hr 5 min)
 - Deploy and run a containerized web app with... (8 units · 46 min)
 - Scale an App Service web app to efficiently ... (6 units · 46 min)
- Useful links:**
 - Get started with App Services
 - View all services

The "App Services" blade shows the following interface:

- Top navigation bar with "All services >" and "App Services".
- Toolbar with actions: + Create, Manage Deleted Apps, Manage view, Refresh, Export to CSV, Open query, Assign tags, Start, Restart, Stop, Delete.
- Filter bar: Filter for any field..., Subscription equals all, Resource group equals all, Location equals all, Add filter.
- Table headers: Name, Status, Location, Pricing Tier, App Service Plan, Subscription, App Type.
- Main content area: A large icon of a gear with three circles and the text "No app services to display". Below it is a descriptive paragraph: "Create, build, deploy, and manage powerful web, mobile, and API apps for employees or customers using a single back-end. Build standards-based web apps and APIs using .NET, Java, Node.js, PHP, and Python." and a link "Learn more about App Service".
- Bottom right corner: Give feedback button.

The screenshot shows the Microsoft Azure App Services dashboard. The URL in the address bar is https://portal.azure.com/?Microsoft_Azure_Education_correlationId=7164c395e1fc441ab7e19b675acd2c&Microsoft_Azure_Education_newA4.... The dashboard title is "App Services - Microsoft Azure". The main content area displays a message: "No app services to display" with a subtitle: "Create, build, deploy, and manage powerful web, mobile, and API apps for employees or customers using a single back-end. Build standards-based web apps and APIs using .NET, Java, Node.js, PHP, and Python." Below this, there is a link "Learn more about App Service".

App Services

Subscription equals all Resource group equals all Location equals all Add filter

Name ↑ Status ↑ Location ↑ Pricing Tier ↑ App Service Plan ↑ Subscription ↑ App Type ↑

No grouping List view

No app services to display

Create, build, deploy, and manage powerful web, mobile, and API apps for employees or customers using a single back-end. Build standards-based web apps and APIs using .NET, Java, Node.js, PHP, and Python.

Learn more about App Service

Give feedback

Create Static Web App

Basics Tags Review + create

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Resource Group * [Create new](#)

Static Web App details

Name *

Hosting plan

The hosting plan dictates your bandwidth, custom domain, storage, and other available features. [Compare plans](#)

Plan type Free: For hobby or personal projects Standard: For general purpose production apps

Azure Functions and staging details

[Review + create](#) [Next : Tags >](#)

Screenshot of Microsoft Azure portal showing the creation of a Static Web App.

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription: Azure for Students

Resource Group: kiran_group

Static Web App details

Name: kadapalakirankumarReddy

Hosting plan

The hosting plan dictates your bandwidth, custom domain, storage, and other available features. [Compare plans](#)

Plan type: Free: For hobby or personal projects Standard: For general purpose production apps

Azure Functions and staging details

Review + create < Previous Next : Tags >

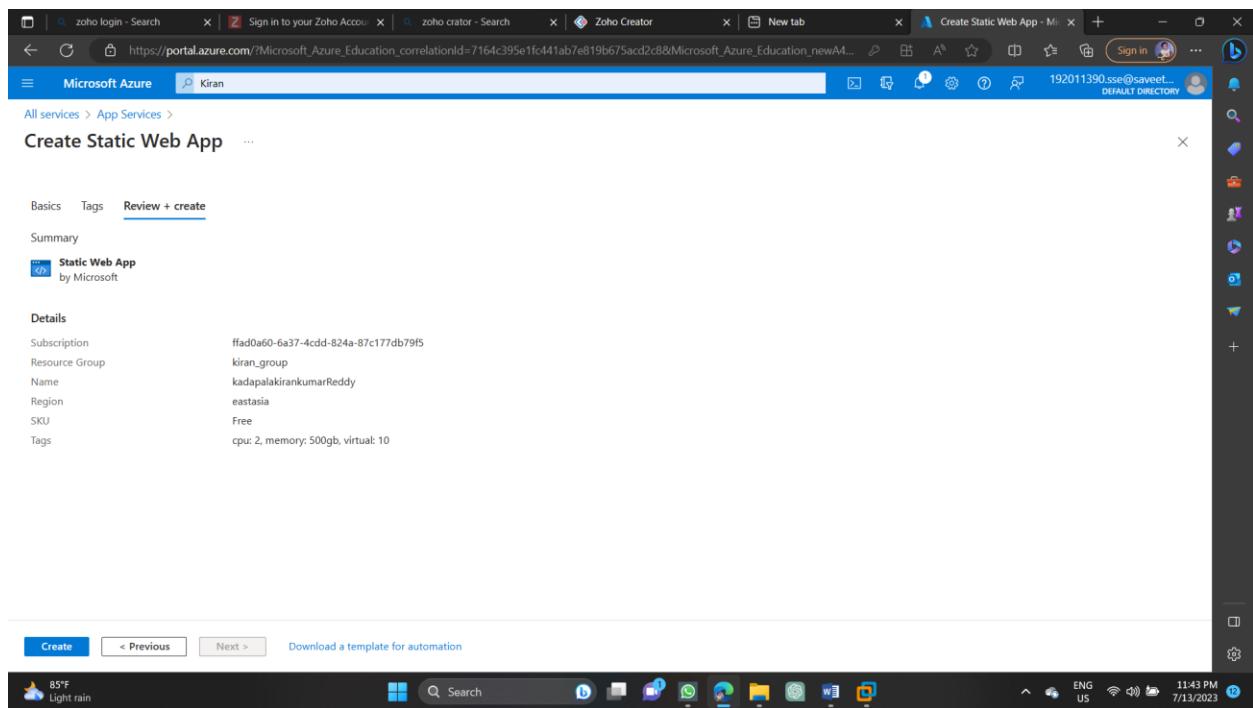
Tags

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups.

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
cpu	: 2	Static Web App
memory	: 500gb	Static Web App
virtual	: 10	Static Web App
	: 10	Static Web App

Review + create < Previous Next : Review + create >



17. Demonstrate Storage as a Service (SaaS) create and configure a new VM Image in any Public Cloud Service Provider

The screenshot displays two browser windows side-by-side, both showing the Microsoft Azure portal interface.

Top Window (Home - Microsoft Azure):

- Left Sidebar:** Shows navigation links like Create a resource, Home, Dashboard, All services, and Favorites.
- Top Bar:** Includes a search bar, user info (192011390.sse@saveet...), and a gear icon.
- Center Content:** A grid of icons for Services, SQL databases, Virtual machines, Resource groups, Image templates, Quickstart Center, Storage accounts, and Azure Cosmos DB.
- Table:** A list of recent resources with columns for Type, Last Viewed, and a preview thumbnail.
- Bottom Bar:** Shows the URL https://portal.azure.com/#dashboard.

Bottom Window (My Dashboard - Microsoft Azure):

- Left Sidebar:** Shows "My Dashboard" and "Private dashboard".
- Top Bar:** Includes a search bar, user info (192011390.sse@saveet...), and a gear icon.
- Content Area:**
 - Quickstarts + tutorials:** Includes sections for Windows Virtual Machines, Linux Virtual Machines, App Service, Functions, and SQL Database.
 - Recent Resources:** A list of virtual machines: kiran_key, kiran, Akash12, kiran_7aba0b9f, and kiran_1911a868.
 - Links:** Service Health and Marketplace.
- Bottom Bar:** Shows the URL https://portal.azure.com/#@192011390sesaveetha.onmicrosoft.com/dashboard/private/b44d2acd-d...

Marketplace - Microsoft Azure

Microsoft Azure

Search resources, services, and docs (G+/)

192011390.sse@saveet...
DEFAULT DIRECTORY (192011390...)

Dashboard >

Marketplace

Get Started

Service Providers

Management

Private Marketplace

Private Offer Management

My Marketplace

- Favorites
- Recently created
- Private plans

Categories

Compute (3165)

IT & Management Tools (2979)

Trending now

Recommended for you

Twilio SendGrid

SendGrid

SaaS

Reliable email delivery, at scale.

Starts at Free

Subscribe

Azure Monitoring

INFRONT SYSTEMS PTY LTD

Managed Services

Infront's Monitoring-as-a-Service; observe every network, every app, at any scale, anywhere.

Create

Wipro AD Digital IAM Managed Service

Wipro Ltd

Managed Services

Azure Active Directory powered fully managed IAM service offering..

Create

Ubuntu Pro 18.04 LTS

Canonical

Virtual Machine

Ubuntu Pro is providing additional coverage for production environments running in the cloud.

Starts at ₹0.149/user/3 years

Create

Is Marketplace helpful?

This screenshot shows the Microsoft Azure Marketplace homepage. The left sidebar includes links for Get Started, Service Providers, Management, Private Marketplace, Private Offer Management, My Marketplace (with Favorites, Recently created, and Private plans), Categories (with Compute, IT & Management Tools, Security, Analytics, Developer Tools, Web, Networking, Storage, AI + Machine Learning, DevOps, Databases, Identity, and Media), and Trending now. The main area displays a grid of recommended products: Twilio SendGrid (SaaS, Reliable email delivery, at scale, starts at Free), Azure Monitoring (INFRONT SYSTEMS PTY LTD, Managed Services, Infront's Monitoring-as-a-Service; observe every network, every app, at any scale, anywhere), Wipro AD Digital IAM Managed Service (Wipro Ltd, Managed Services, Azure Active Directory powered fully managed IAM service offering..), and Ubuntu Pro 18.04 LTS (Canonical, Virtual Machine, Ubuntu Pro is providing additional coverage for production environments running in the cloud, starts at ₹0.149/user/3 years). A search bar and filters for Pricing, Operating System, Publisher Type, and Product Type are at the top. A blue banner at the bottom asks 'Is Marketplace helpful?'.

Marketplace - Microsoft Azure

Microsoft Azure

Search resources, services, and docs (G+/)

192011390.sse@saveet...
DEFAULT DIRECTORY (192011390...)

Dashboard >

Marketplace

Compute (3165)

IT & Management Tools (2979)

Security (2291)

Analytics (2016)

Developer Tools (1686)

Web (1612)

Networking (1196)

Storage (1107) **(Selected)**

AI + Machine Learning (1089)

DevOps (1022)

Databases (1011)

Identity (454)

Media (374)

Featured [See more](#)

Azure Data Box

Microsoft

Azure Service

Migrate your data to cloud with ease.

Create

Data Lake Storage Gen1

Microsoft

Azure Service

Hyper-scale repository for big data analytic workloads

Create

CB Dynamics 365 to SharePoint Permissions

Connecting Software

Virtual Machine

Application to secure your Microsoft Dynamics 365 (CRM) documents stored in SharePoint.

Create

Soft Flow Managed Service Backup

SOFT FLOW

Managed Services

Managing to safeguard the data on the cloud

Create

Is Marketplace helpful?

This screenshot shows the Microsoft Azure Marketplace homepage with the Storage category selected in the left sidebar. The main area displays a grid of featured products: Azure Data Box (Microsoft, Azure Service, Migrate your data to cloud with ease), Data Lake Storage Gen1 (Microsoft, Azure Service, Hyper-scale repository for big data analytic workloads), CB Dynamics 365 to SharePoint Permissions (Connecting Software, Virtual Machine, Application to secure your Microsoft Dynamics 365 (CRM) documents stored in SharePoint), and Soft Flow Managed Service Backup (SOFT FLOW, Managed Services, Managing to safeguard the data on the cloud). A search bar and filters for Pricing, Operating System, Publisher Type, and Product Type are at the top. A blue banner at the bottom asks 'Is Marketplace helpful?'.

Azure Data Box - Microsoft Azure

https://portal.azure.com/#view/Microsoft_Azure_Marketplace/GalleryItemDetailsBladeNopId/Micro...

Microsoft Azure

Search resources, services, and docs (G+)

192011390.sse@saveet...
DEFAULT DIRECTORY (192011390...)

Dashboard > Marketplace >

Azure Data Box

Microsoft

Azure Data Box Add to Favorites

Microsoft | Azure Service

★ 4.2 (6 ratings)

Plan

Azure Data Box Create

Overview Plans Usage Information + Support Ratings + Reviews

The Azure Data Box service enables you to copy terabytes of data to and from Azure in a quick, inexpensive, and reliable manner. Microsoft accelerates the secure data transfer by shipping you a device and handling the end-to-end logistics. Based on your data size requirements, you can select amongst different Azure Data Box models.

Copying data to/from Azure is done in just four simple steps:

1. Select the transfer type (import or export) and create an order for your preferred Data Box model
2. A device is prepared and sent to you
3. In case of import order, copy data to the device. For an export order, copy data from the device to your on-premise storage
4. Return the device to Azure

Once the device is received at the datacenter it is processed, secure erased and then the order completes.

Media

Select your Azure Data Box - Microsoft Azure

https://portal.azure.com/#create/Microsoft.AzureExpressPod

Microsoft Azure

Search resources, services, and docs (G+)

192011390.sse@saveet...
DEFAULT DIRECTORY (192011390...)

Dashboard > Marketplace > Azure Data Box >

Select your Azure Data Box

Get started with Data Box

Select the source Azure region where your data resides and the destination country/region for data transfer.

Transfer type

Subscription

Resource group

Source Azure region

Destination country/re...

Transfer type * Import to Azure Export from Azure

Subscription *

Resource group *

Source Azure region *

Destination country/region *

Apply

Select your Azure Data Box - Microsoft Azure

<https://portal.azure.com/#create/Microsoft.AzureExpressPod>

Microsoft Azure | Search resources, services, and docs (G+/-)

Dashboard > Marketplace > Azure Data Box > Select your Azure Data Box

Azure Data Box is not available for the selected subscription type. Select a different subscription or [Send a request to the operations team for consideration.](#)

Data Box Preview

80 TB
Total usable capacity per order

10 day use at no extra cost
 Supports Azure Blobs and Files
 Export data from upto 10 storage accounts
 1x1/10 Gbps RJ45, 2x10 Gbps SFP+ interface

Data Box Heavy

800 TB
Available only in the US and the EU
Total usable capacity per order

20 day use at no extra cost
 Supports Azure Blobs and Files
 Export data from upto 10 storage accounts
 4x1 Gbps, 4x40 Gbps interface

Import/Export Job

1 TB
Onwards

Send up to 10 disks per order
 Supports SATA/SSD disks: [Supported hardware](#)
 Supports Azure Blobs
 Export data from 1 storage account

Create job - Microsoft Azure

<https://portal.azure.com/#create/Microsoft.AzureExpressPod>

Microsoft Azure | Search resources, services, and docs (G+/-)

Dashboard > Marketplace > Azure Data Box > Select your Azure Data Box > Create job

Import/Export Job (Export from Azure)

Basics **Job Details** **Security** **Return shipping** **Tags** **Review + Create**

Project details

The job will be created within the subscription and resource group selected.

Subscription: Azure for Students

Resource group: kiran_group

Order details

Export job name *: student

Information

Important Data export may face issues if the source data in the storage account(s) is in flux. Note that file history and blob snapshots are not exported.

Review + Create **<Previous: Basics** **Next: Job Details>**

Create job - Microsoft Azure

https://portal.azure.com/#create/Microsoft.AzureExpressPod

Microsoft Azure

Search resources, services, and docs (G+/)

Dashboard > Marketplace > Azure Data Box > Select your Azure Data Box >

Create job

Import/Export Job (Export from Azure)

Basics Job Details Security Return shipping Tags Review + Create

Encryption type

Review + Create <Previous: Job Details Next: Return shipping>

Create job - Microsoft Azure

https://portal.azure.com/#create/Microsoft.AzureExpressPod

Microsoft Azure

Search resources, services, and docs (G+/)

Dashboard > Marketplace > Azure Data Box > Select your Azure Data Box >

Create job

Import/Export Job (Export from Azure)

Basics Job Details Security Return shipping Tags Review + Create

Carrier details

Carrier * ⓘ Select a "Carrier" for return shipment from the drop down list below. All storage media will be shipped back by Microsoft using one of the listed Return Carriers. Some datacenters may have additional security requirements. To learn more about the delivery process [click here](#).

Carrier * DHL

Carrier account number * Akash1

Return address

Provide the address where the disks need to be shipped back after job completion.

Ship to address * + Add Address

Save this address and contact details for future jobs.

Notification

Review + Create <Previous: Security Next: Tags>

Create job

Import/Export Job (Export from Azure)

Basics Job Details Security Return shipping **Tags** Review + Create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
memory	: 90	Import/export job
	: 90	Import/export job

[Review + Create](#) [<Previous: Return shipping](#) [Next: Review + Create>](#)

18. Create a Storage service using any Public Cloud Service Provider (Azure/GCP/AWS) and check the public accessibility of the stored file to demonstrate Storage as a Service.

Home - Microsoft Azure

Search resources, services, and docs (G+)

Dashboard All services FAVORITES All resources Resource groups App Services Function App SQL databases Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks Azure Active Directory Monitor Advisor

Type	Last Viewed
SQL database	a few seconds ago
Resource group	a few seconds ago
SQL database	26 minutes ago
Virtual machine	41 minutes ago
Static Web App	41 minutes ago
SSH key	9 hours ago

[https://portal.azure.com/#dashboard](#)

19. Database as a Service (DaaS) create and configure a new VM Image in any Public Cloud Service Provider

The screenshot shows the Microsoft Azure Marketplace search results for the 'Storage' category. The left sidebar lists various service categories with their counts: Compute (3165), IT & Management Tools (2979), Security (2291), Analytics (2016), Developer Tools (1686), Web (1612), Networking (1196), Storage (1107), AI + Machine Learning (1089), DevOps (1022), Databases (1011), Identity (454), and Media (374). The 'Storage' category is selected. The main area displays four featured storage services: 'Azure Data Box' by Microsoft, 'Data Lake Storage Gen1' by Microsoft, 'CB Dynamics 365 to SharePoint Permissions' by Connecting Software, and 'Soft Flow Managed Service Backup' by SOFT FLOW. Each service card includes a 'Create' button and a heart icon for favoriting.

20. Create a SQL storage service and perform a basic query using any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Database as a Service (DaaS)

This screenshot is identical to the one above, showing the Microsoft Azure Marketplace search results for the 'Storage' category. The left sidebar and the four featured storage services ('Azure Data Box', 'Data Lake Storage Gen1', 'CB Dynamics 365 to SharePoint Permissions', and 'Soft Flow Managed Service Backup') are displayed in the main area. The interface is consistent with the first screenshot, including the search bar, filter options, and the 'Is Marketplace helpful?' button at the bottom right.

21. Perform the basic configuration setup for installing HADOOP 2.x like creating the HDUSER and SSH localhost
22. Install Hadoop 2.x and configure the Name Node and Data Node.
23. Launch the Hadoop 2.x and test the Map-Reduce Platform with Hadoop.
24. Launch the Hadoop 2.x and perform Map-Reduce program For a word count problem