

LAB EXPERIMENTS OUTPUT / SCREEN SHOTS

COURSE CODE : CSA1503

**COURSE : CLOUD COMPUTING AND
BIG DATA ANALYTICS FOR INTERNET
OF THINGS**

SLOT : D

NAME : S. Sasikaran

REG. NO: 192210135

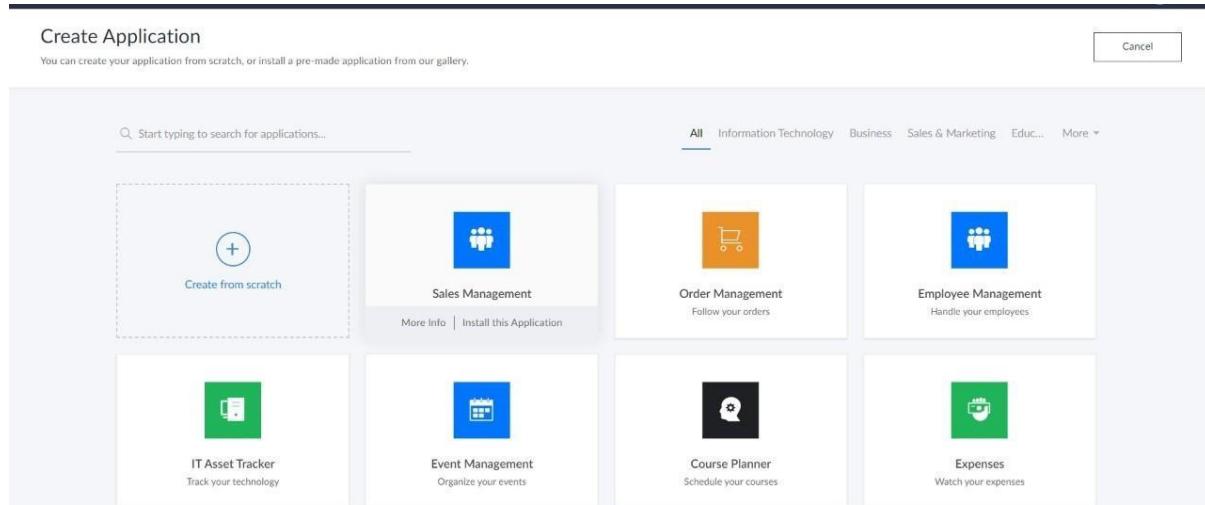
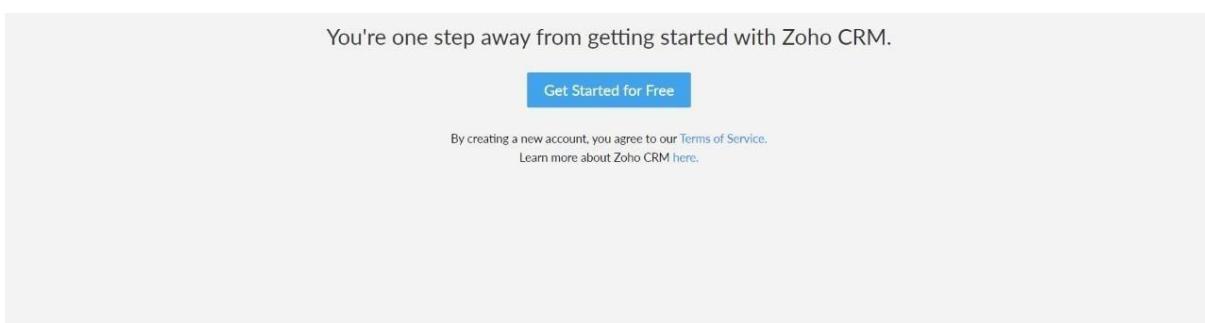
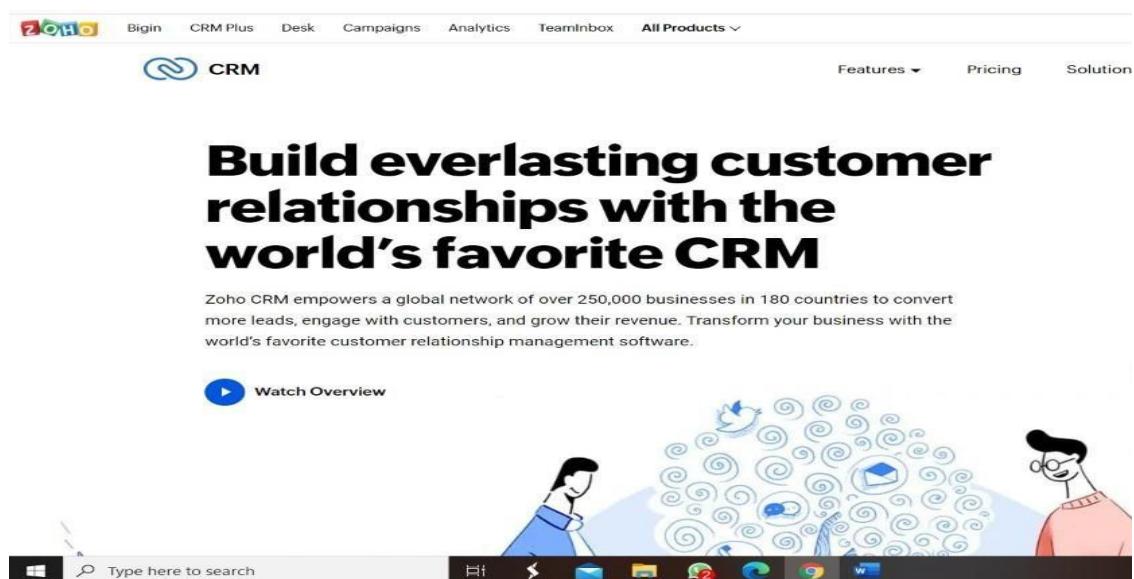
SL.No: 21

EX. NO ; 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).

DATE OF EXPERIMENT:16-09-2024

AIM : To create a simple cloud software application and provide it as a service using any cloud service provider to demonstrate software as a service (saas).

SCREEN SHOTS AND OUTPUT:



Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Start typing to search for applications...

All Information Technology Business Sales & Marketing Educ... More ▾

Create from scratch

Enter Application Name

Examples: Campaign Monitor, Order Management

Create

Employee Management
Handle your employees

IT Asset Tracker
Track your technology

Event Management
Organize your events

Course Planner
Schedule your courses

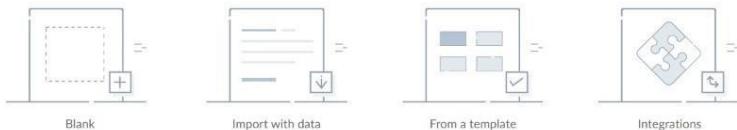
Expenses
Watch your expenses

Booking Movie Ticket

Start building your application by creating a form

Create new form

How would you like to create your form?



Form Customization - Web

Label placement

Booking Movie Ticket

User Details

user details

Name:

Phone: +91 • 01234 56789

Email:

Date-Time: dd-MMM-yyyy HH:mm:ss

Theatres:

Drop Down:

Submit **Reset**

The screenshot shows a form builder interface for a "Booking Movie Ticket" application. On the left, there's a grid of basic field types: Name (Text), Email (Text), Address (Text), Phone (Text), Single Line (Text), Multi Line (Text), Number (Text), Date (Text), Time (Text), and Drop Down (Text). On the right, the "Field Properties" panel is open for the "Name" field. It includes fields for "Field name" (set to "Name"), "Field link name" (set to "Name"), "Validation" (with "Mandatory" checked), "Display Fields" (with "First Name" checked), and "Data Privacy".

EX. NO ; 2 CREATE A SIMPLE CLOUD SOFTWARE APPLICATION FOR FLIGHT RESERVATION SYSTEM USING ANY CLOUD SERVICE PROVIDER TO DEMONSTRATE SAAS.

DATE OF EXPERIMENT: 16-09-2024

AIM ; To create a simple cloud software application for flight reservation system using any cloud service provider to demonstrate saas.

SCREEN SHOTS AND OUTPUT:

The screenshot shows the Zoho CRM homepage. At the top, there are navigation links for "Begin", "CRM Plus", "Desk", "Campaigns", "Analytics", "TeamInbox", and "All Products". Below the navigation is a search bar with the placeholder "Type here to search". The main headline reads "Build everlasting customer relationships with the world's favorite CRM". A subtext states: "Zoho CRM empowers a global network of over 250,000 businesses in 180 countries to convert more leads, engage with customers, and grow their revenue. Transform your business with the world's favorite customer relationship management software." There is a "Watch Overview" button with a play icon. The bottom of the screen shows a Windows taskbar with icons for File Explorer, Task View, Mail, Edge, and Google Chrome.

You're one step away from getting started with Zoho CRM.

[Get Started for Free](#)

By creating a new account, you agree to our [Terms of Service](#).
Learn more about Zoho CRM [here](#).

Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

[Cancel](#)

Start typing to search for applications...

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 Create from scratch	 Sales Management More Info Install this Application	 Order Management Follow your orders	 Employee Management Handle your employees
 IT Asset Tracker Track your technology	 Event Management Organize your events	 Course Planner Schedule your courses	 Expenses Watch your expenses

Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Start typing to search for applications...

All Information Technology Business Sales & Marketing Educ... More ▾

Create from scratch

Enter Application Name

Examples: Campaign Monitor, Order Management

Create

Employee Management Handle your employees

IT Asset Tracker Track your technology

Event Management Organize your events

Course Planner Schedule your courses

Expenses Watch your expenses

Cancel

This screenshot shows the 'Create Application' interface. At the top, there's a search bar with placeholder text 'Start typing to search for applications...'. Below it is a central input field labeled 'Enter Application Name' with a placeholder 'Examples: Campaign Monitor, Order Management' and a 'Create' button. To the left is a dashed box containing a plus sign icon and the text 'Create from scratch'. To the right is a card for 'Employee Management' with the subtext 'Handle your employees'. Below these are four cards: 'IT Asset Tracker' (Track your technology), 'Event Management' (Organize your events), 'Course Planner' (Schedule your courses), and 'Expenses' (Watch your expenses). A 'Cancel' button is located in the top right corner.

Booking Movie Ticket

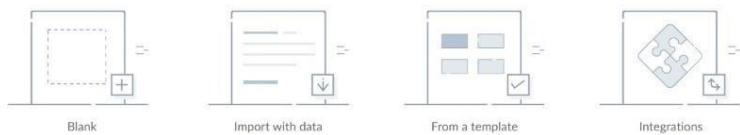
Start building your application by creating a form

Create new form

This screenshot shows the 'Booking Movie Ticket' application builder interface. On the left, there's a dark sidebar with a green header bar. In the center, there's a circular diagram with nodes and arrows, representing a form structure. Below it is a text prompt 'Start building your application by creating a form' and a blue 'Create new form' button. On the right, there are two preview windows showing a list of items, likely movie tickets. The overall interface is clean and modern, designed for application development.

X

How would you like to create your form?



Booking Movie Ticket

User Details

All User Details

user details

Name: First Name Last Name

Phone: +91 01234 56789

Email:

Date-Time: dd/MMM/yyyy HH:mm:ss

Theatres: First Name Last Name

Drop Down: Select

Submit Reset

Form Customization - Web

Label placement

This screenshot shows a 'Booking Movie Ticket' form on the left and a 'Form Customization - Web' panel on the right. The form includes fields for user details, phone number, email, date-time, theatres, and a dropdown menu. The customization panel displays four examples of how labels can be placed relative to their input fields.

Booking Movie Ticket
user details

Basic Fields

Name	Email
Address	Phone
Single Line	Multi Line
Number	Date
Time	Drop Down

Field Properties

Field name: Name

Field link name: Name

Validation: Mandatory

Display Fields

Prefix: First Name, Last Name

Suffix: Suffix

Data Privacy

Done

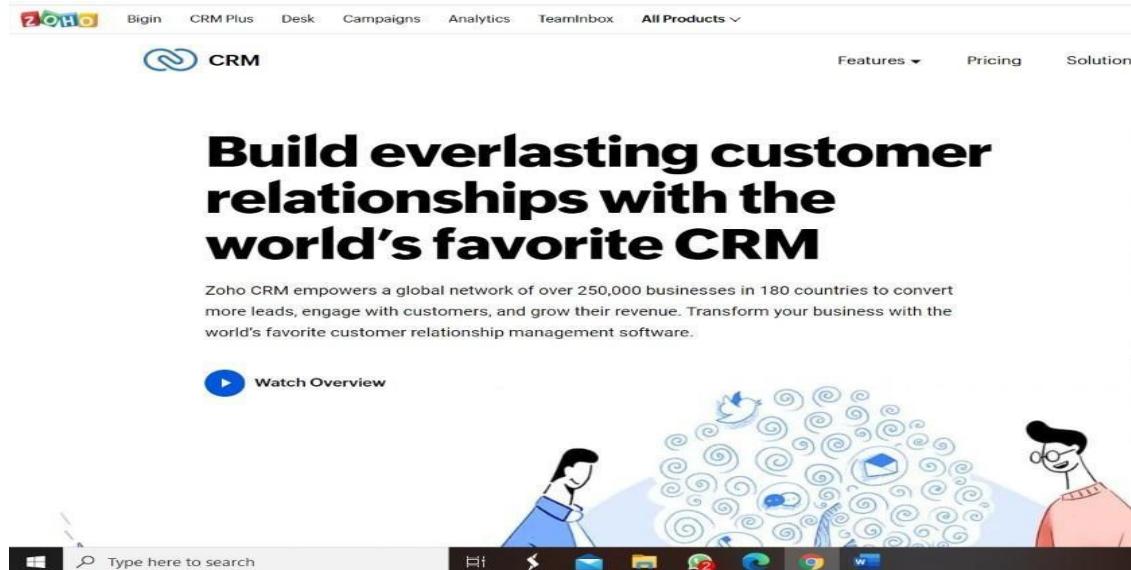
EXP NO 3: CREATE A SIMPLE CLOUD SOFTWARE APPLICATION FOR PROPERTY BUYING & RENTAL PROCESS (IN CHENNAI CITY) USING ANY CLOUD SERVICE PROVIDER TO DEMONSTRATE SaaS.

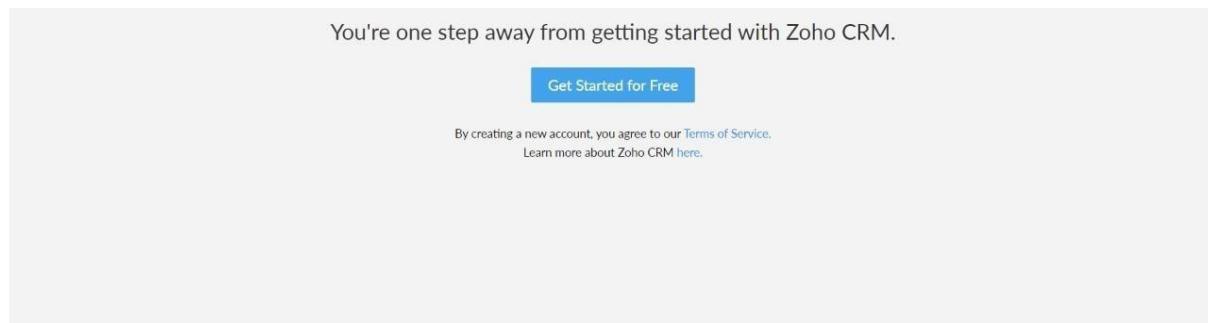
DATE: 16-09-2024

AIM:

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

SCREEN SHOTS AND OUTPUT:





Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

All Information Technology Business Sales & Marketing Educ... More ▾

Create from scratch	Sales Management More Info Install this Application	Order Management Follow your orders	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events	Course Planner Schedule your courses	Expenses Watch your expenses

Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

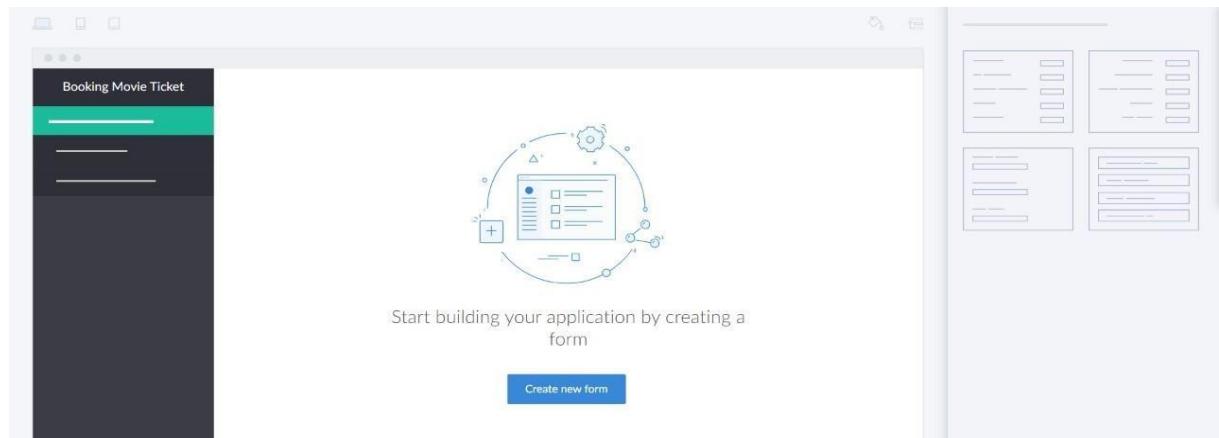
All Information Technology Business Sales & Marketing Educ... More ▾

Enter Application Name

Examples: Campaign Monitor, Order Management

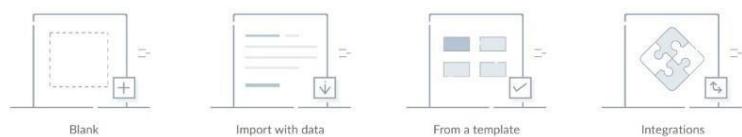
Create

Create from scratch	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events
Course Planner Schedule your courses	Expenses Watch your expenses



X

How would you like to create your form?



The screenshot shows a software application window titled "Booking Movie Ticket". The left sidebar has a menu with "User Details" selected. The main area displays a "user details" form with fields for Name (First Name and Last Name), Phone (with an international dial code dropdown and number input), Email, Date-Time (with a date and time picker), Theatres (two input fields), and Drop Down (a dropdown menu). At the bottom are "Submit" and "Reset" buttons. To the right, a panel titled "Form Customization - Web" shows examples of "Label placement" with two sets of four grid-based layout options.

Booking Movie Ticket
user details

Basic Fields

Name	Email
Address	Phone
Single Line	Multi Line
123	Date
Time	Drop Down

Field Properties

Field name: Name

Field link name: Name

Validation: Mandatory

Display Fields:

Prefix

First Name

Last Name

Suffix

Data Privacy

Done

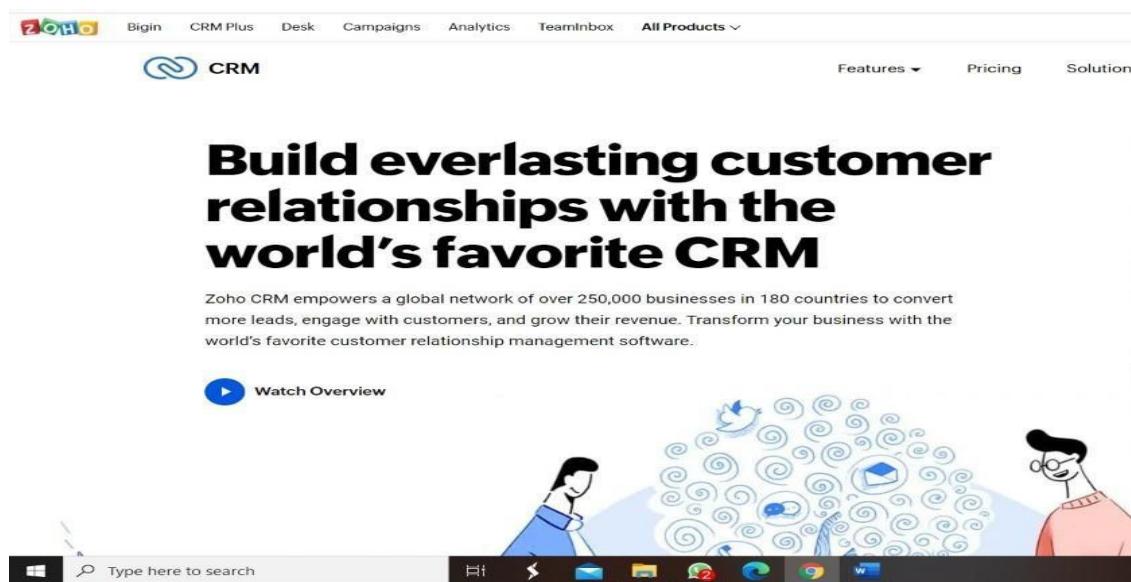
EXP NO 4: CREATE A SIMPLE CLOUD SOFTWARE APPLICATION FOR CAR BOOKING RESERVATION SYSTEM USING ANY CLOUD SERVICE PROVIDER TO DEMONSTRATE SaaS.

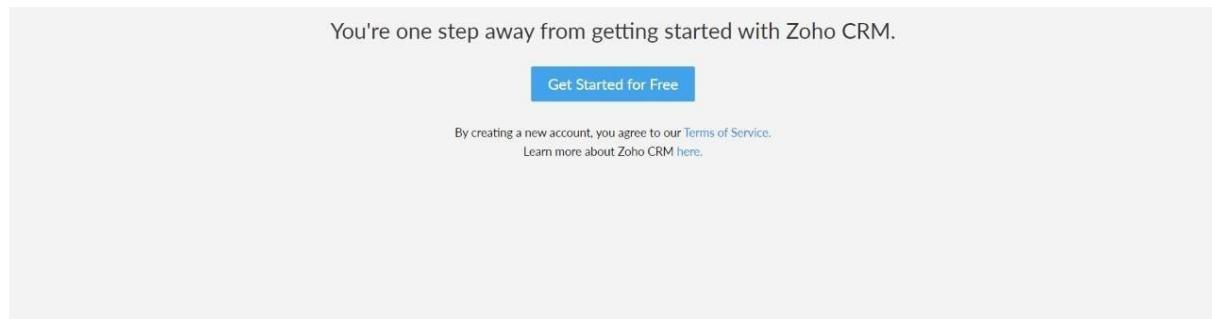
DATE: 16-09-2024

AIM:

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

SCREEN SHOTS AND OUTPUT:





Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

All Information Technology Business Sales & Marketing Educ... More ▾

Create from scratch	Sales Management More Info Install this Application	Order Management Follow your orders	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events	Course Planner Schedule your courses	Expenses Watch your expenses

Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

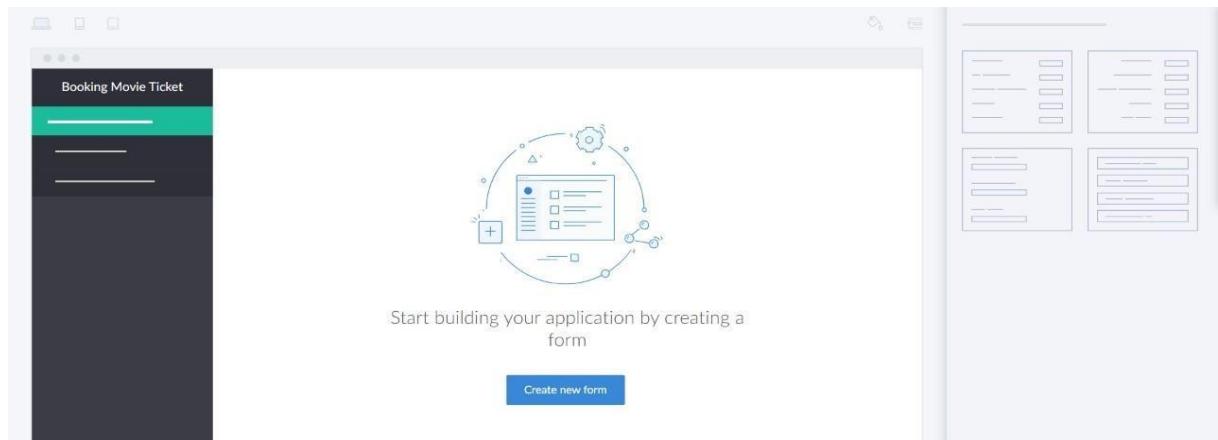
All Information Technology Business Sales & Marketing Educ... More ▾

Enter Application Name

Examples: Campaign Monitor, Order Management

Create

Create from scratch	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events
Course Planner Schedule your courses	Expenses Watch your expenses



X

How would you like to create your form?



The screenshot shows a software application window titled "Form Customization - Web". On the left, there's a sidebar with a navigation menu. The main area displays a form titled "user details" with fields for Name (First Name and Last Name), Phone (with an Indian flag icon and number +91 81234 56789), Email, Date-Time (with a calendar icon), Theatres (with First Name and Last Name fields), and Drop Down (with a dropdown menu). At the bottom are "Submit" and "Reset" buttons. To the right, there's a section titled "Label placement" with four preview windows showing different layout options for labels and fields.

Booking Movie Ticket
user details

Basic Fields

Name	Email
Address	Phone
Single Line	Multi Line
Number	Date
Time	Drop Down

Field Properties

Field name: Name

Field link name: Name

Validation: Mandatory

Display Fields

Prefix:

First Name:

Last Name:

Suffix:

Data Privacy

Done

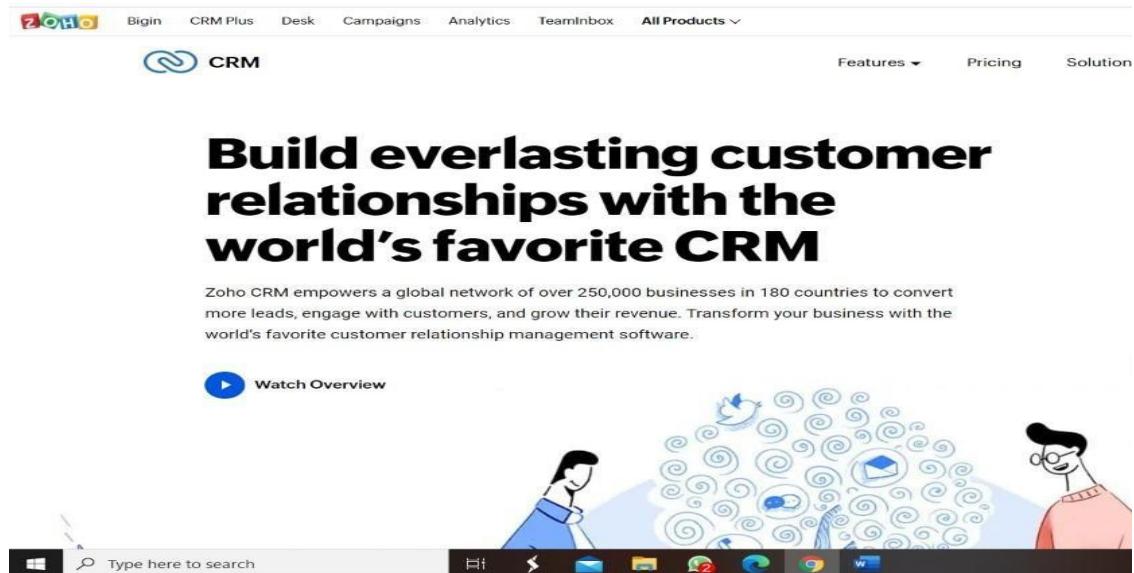
EXP NO 5: CREATE A SIMPLE CLOUD SOFTWARE APPLICATION FOR LIBRARY BOOK RESERVATION SYSTEM FOR SIMATS LIBRARY USING ANY CLOUD SERVICE PROVIDER TO DEMONSTRATE SaaS

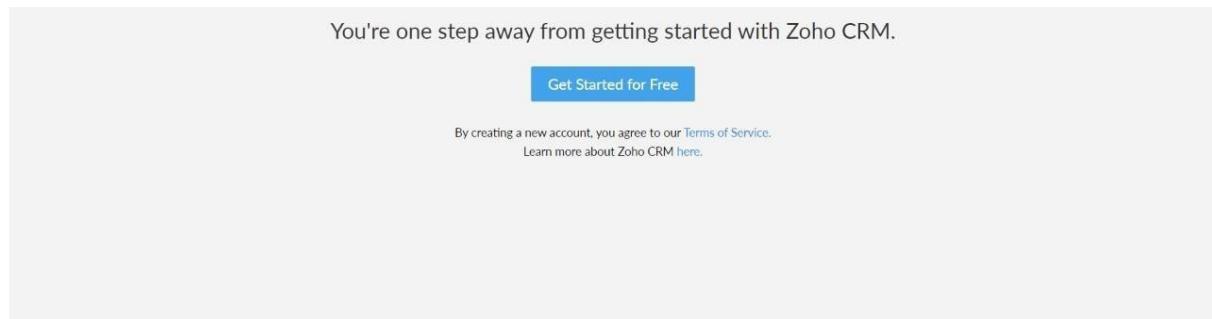
DATE: 16-09-2024

AIM:

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

SCREEN SHOTS AND OUTPUT:





Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

All Information Technology Business Sales & Marketing Educ... More ▾

Create from scratch	Sales Management More Info Install this Application	Order Management Follow your orders	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events	Course Planner Schedule your courses	Expenses Watch your expenses

Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

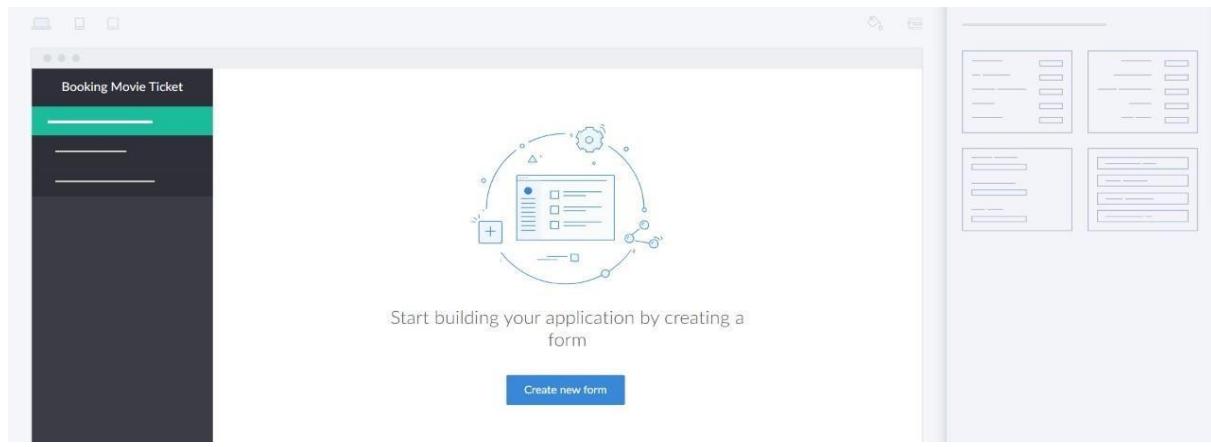
All Information Technology Business Sales & Marketing Educ... More ▾

Enter Application Name

Examples: Campaign Monitor, Order Management

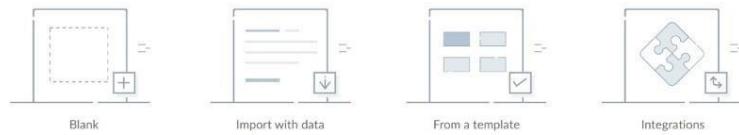
Create

Create from scratch	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events
Course Planner Schedule your courses	Expenses Watch your expenses



X

How would you like to create your form?



The screenshot shows a "user details" form within a "Booking Movie Ticket" application. The sidebar on the left has a "User Details" section with a dropdown menu. The main form area has a title "user details". It contains several input fields:

- Name: Two input fields for "First Name" and "Last Name".
- Phone: An input field with a dropdown for country code (+91) and a number (01234 56789).
- Email: An input field with an envelope icon.
- Date-Time: An input field with a date and time picker icon.
- Theatres: Two input fields for "First Name" and "Last Name".
- Drop Down: A dropdown menu with "Select" placeholder text.

At the bottom are "Submit" and "Reset" buttons. To the right, a panel titled "Form Customization - Web" shows examples of label placement.

Booking Movie Ticket
user details

Basic Fields

Name	Email
Address	Phone
Single Line	Multi Line
Number	Date
Time	Drop Down

Field Properties

Field name: Name

Field link name: Name

Validation: Mandatory

Display Fields

Prefix: First Name, Last Name

Suffix: Suffix

Data Privacy

Done

EXP NO 6: CREATE A SIMPLE CLOUD SOFTWARE APPLICATION FOR PRODUCT SELLING USING ANY CLOUD SERVICE PROVIDER TO DEMONSTRATE SAAS.

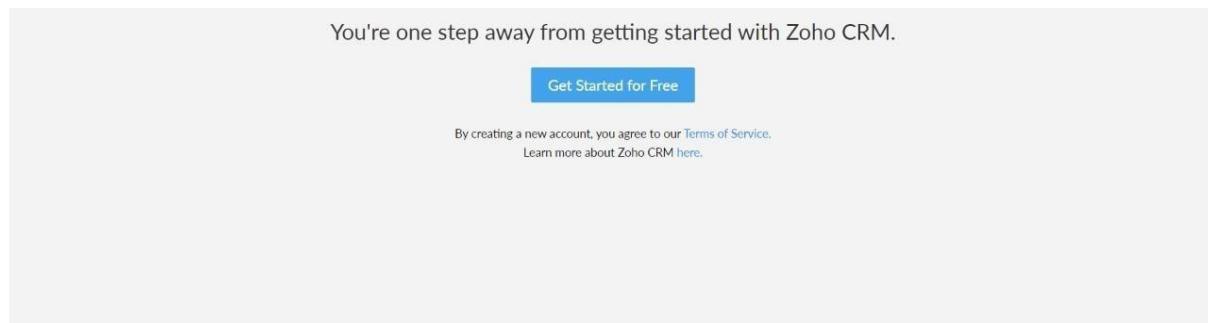
DATE: 16-09-2024

AIM:

To create a simple cloud software application for product selling using any cloud service provider to demonstrate saas.

SCREEN SHOTS AND OUTPUT:





Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

All Information Technology Business Sales & Marketing Educ... More ▾

Create from scratch	Sales Management More Info Install this Application	Order Management Follow your orders	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events	Course Planner Schedule your courses	Expenses Watch your expenses

Create Application

You can create your application from scratch, or install a pre-made application from our gallery.

Cancel

Start typing to search for applications...

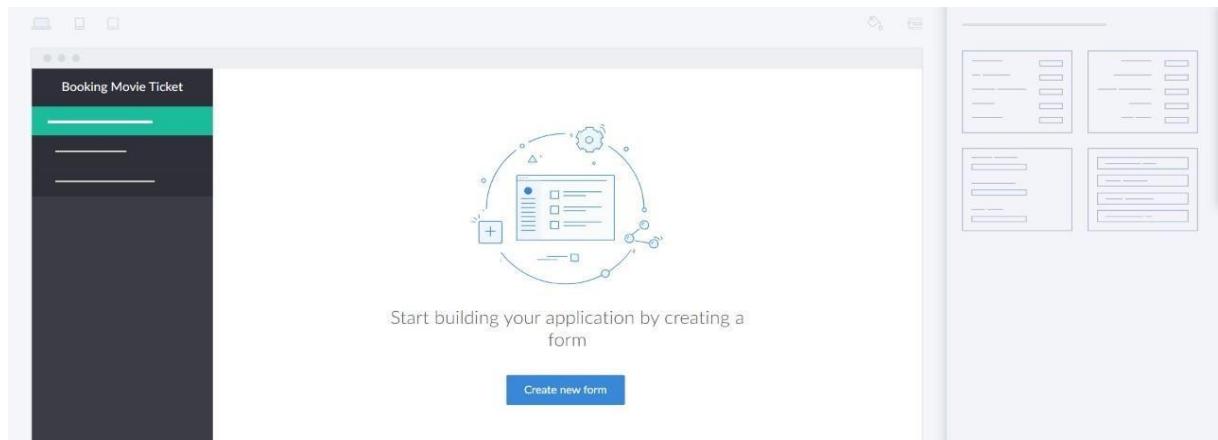
All Information Technology Business Sales & Marketing Educ... More ▾

Enter Application Name

Examples: Campaign Monitor, Order Management

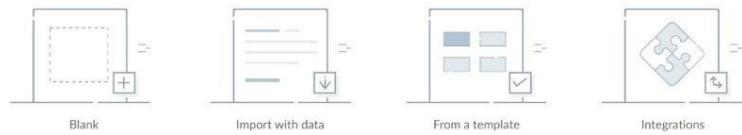
Create

Create from scratch	Employee Management Handle your employees
IT Asset Tracker Track your technology	Event Management Organize your events
Course Planner Schedule your courses	Expenses Watch your expenses



X

How would you like to create your form?



The screenshot shows a software application window titled "Form Customization - Web". On the left, there's a sidebar with a navigation menu. The main area displays a form titled "user details" with fields for Name (First Name and Last Name), Phone (with an Indian flag icon and number +91 81234 56789), Email, Date-Time (with a calendar icon), Theatres (with a dropdown menu), and Drop Down (with a dropdown menu). At the bottom are "Submit" and "Reset" buttons. To the right, there's a panel titled "Label placement" showing four examples of how labels can be positioned relative to their input fields.

Booking Movie Ticket
user details

Basic Fields

Name	Email
Address	Phone
Single Line	Multi Line
Number	Date
Time	Drop Down

Field Properties

Field name: Name

Field link name: Name

Validation: Mandatory

Display Fields

Prefix

First Name

Last Name

Suffix

Data Privacy

Done

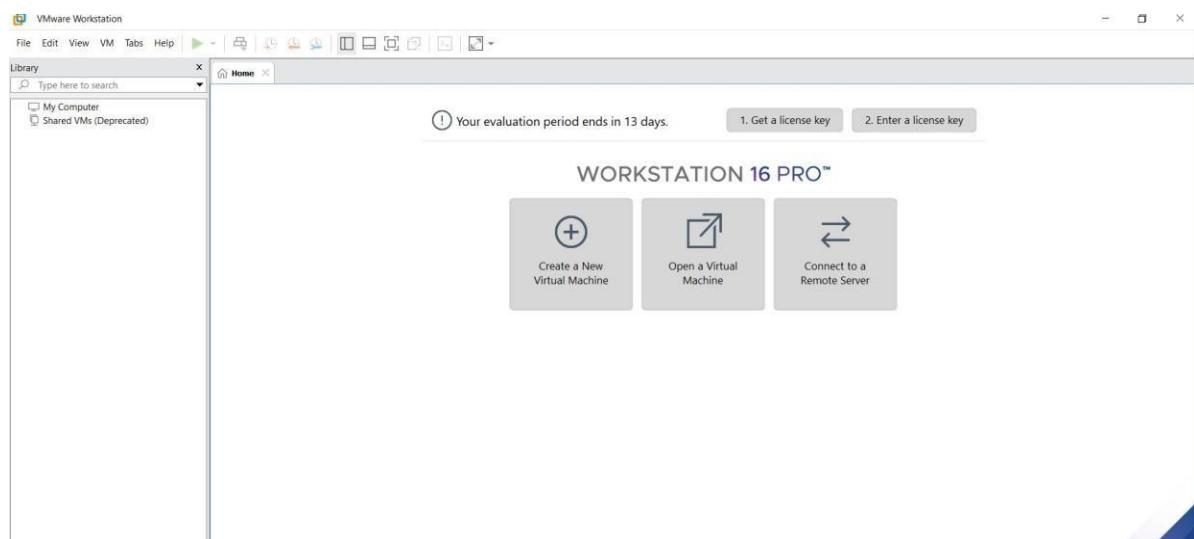
EXP NO 7: DEMONSTRATE VIRTUALIZATION BY INSTALLING TYPE-2 HYPERVISOR IN YOUR DEVICE, CREATE AND CONFIGURE VM IMAGE WITH A HOST OPERATING SYSTEM (EITHER WINDOWS/LINUX).

DATE: 17-09-2024

AIM:

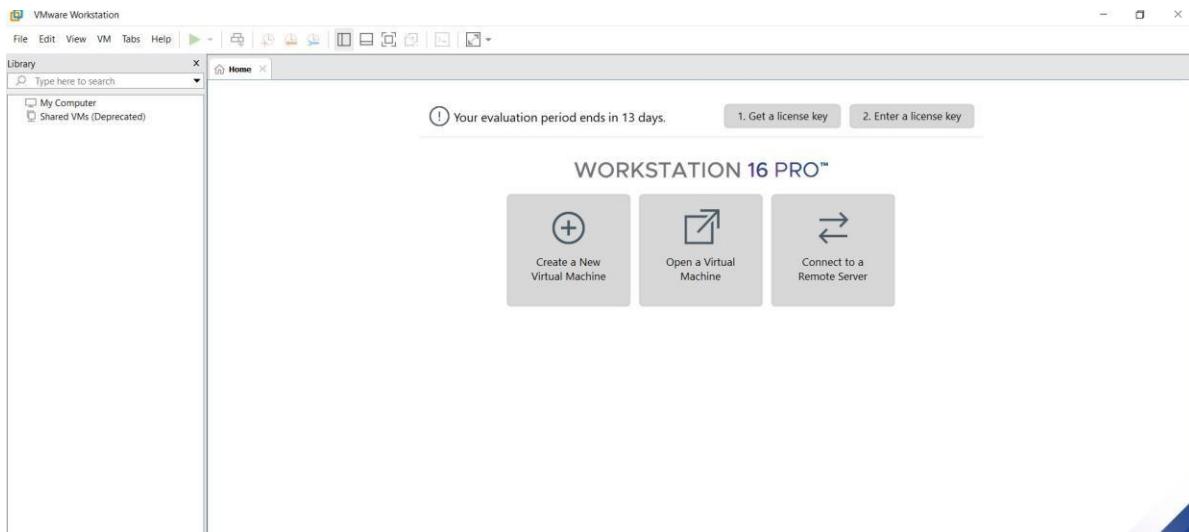
To demonstrate virtualization by installing type-2 hypervisor in your device, create and configure VM image with a host operating system (either windows/linux).

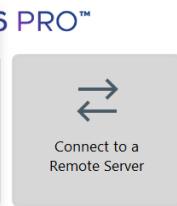
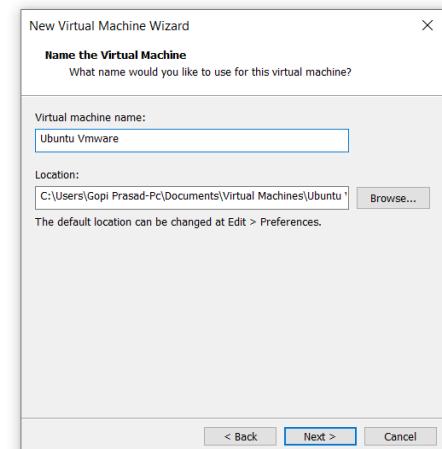
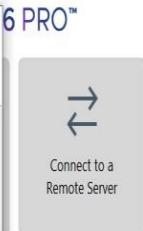
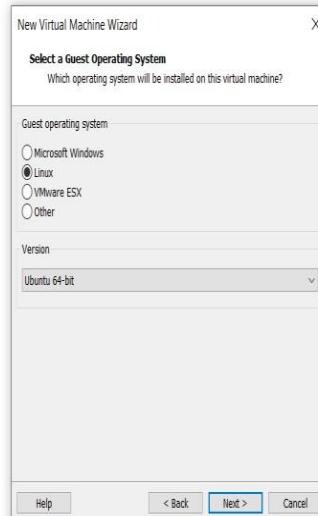
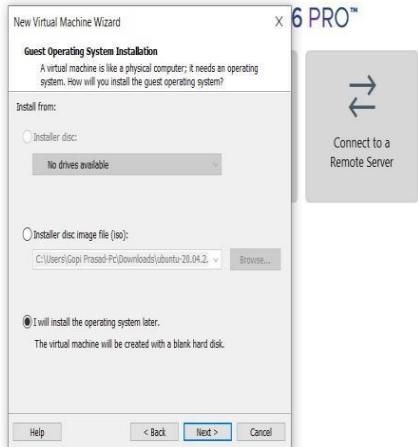
SCREEN SHOTS AND OUTPUT:

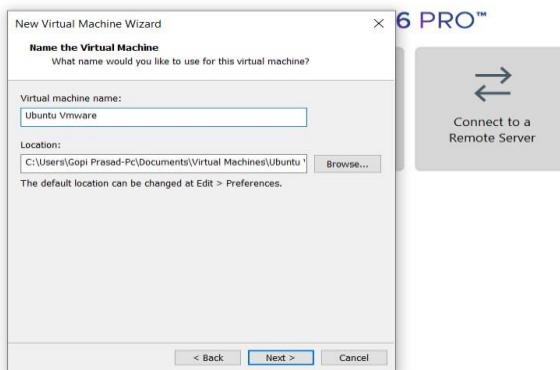


Index of /11.x/x86/release/

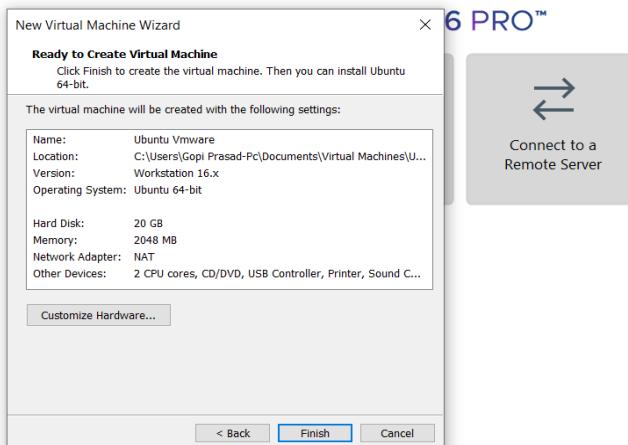
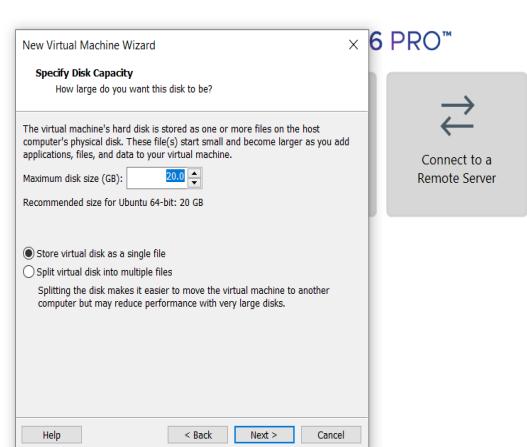
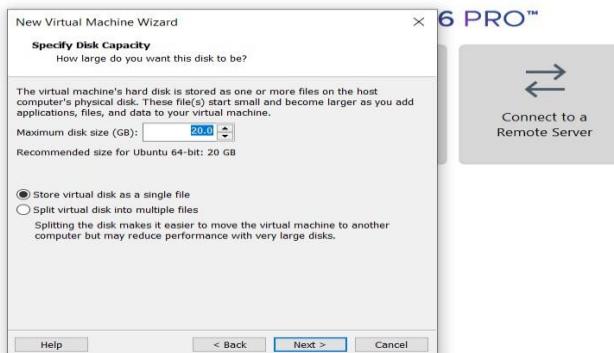
../_distribution_files/_	09-Feb-2020 11:50	-
src/_	03-Dec-2019 11:14	-
Core-11.1.iso	01-Apr-2020 07:49	14757888
Core-11.1.iso.md5.txt	01-Apr-2020 07:49	48
Core-11.1.iso.zsync	01-Apr-2020 07:49	50639
Core-current.iso	01-Apr-2020 07:49	14757888
CorePlus-11.1.iso	01-Apr-2020 07:50	216006656
CorePlus-11.1.iso.md5.txt	01-Apr-2020 07:50	52
CorePlus-11.1.iso.zsync	01-Apr-2020 07:50	369358
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TinyCore-11.1.iso	01-Apr-2020 07:50	19922944
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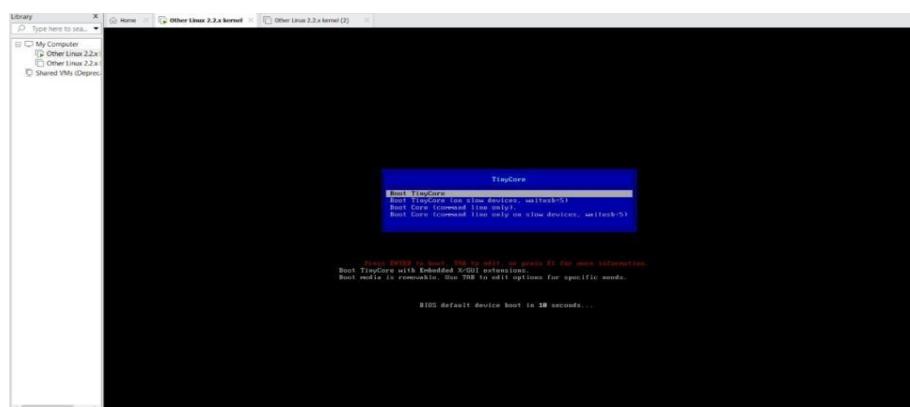
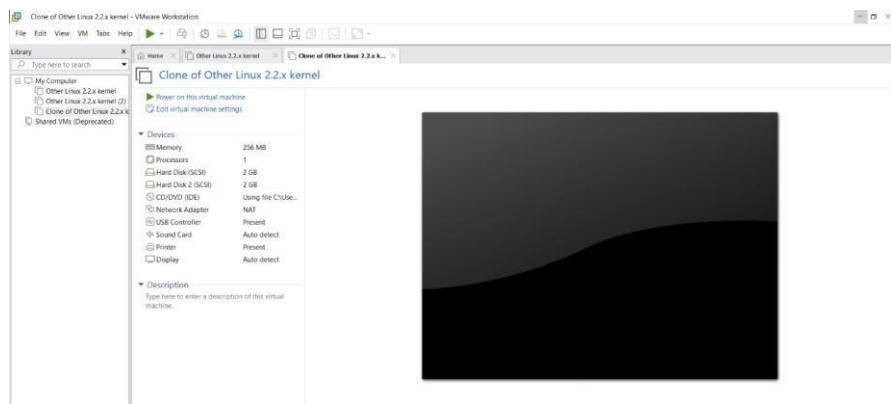






! Your evaluation period ends in 12 days. 1. Get a license key 2. Enter a license key ! Your evaluation period ends in 12 days. 1. Get a license key 2. Enter a license key





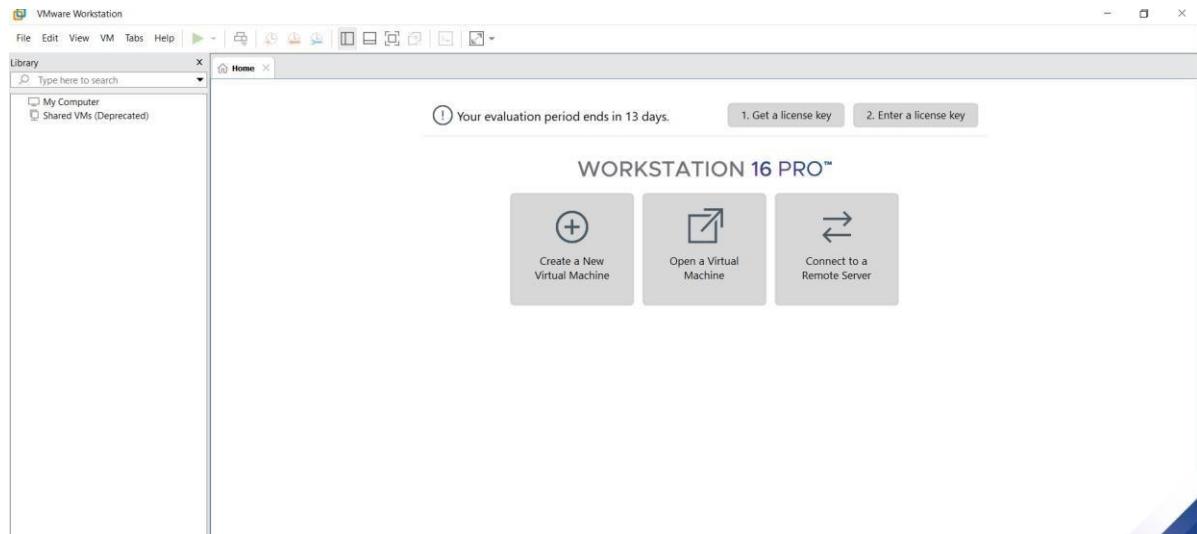
EXPNO 8: CREATE A VIRTUAL MACHINE WITH 1 CPU, 2GB RAM AND 15GB STORAGE DISK USING A TYPE 2 VIRTUALIZATION SOFTWARE.

DATE: 17-09-2024

AIM:

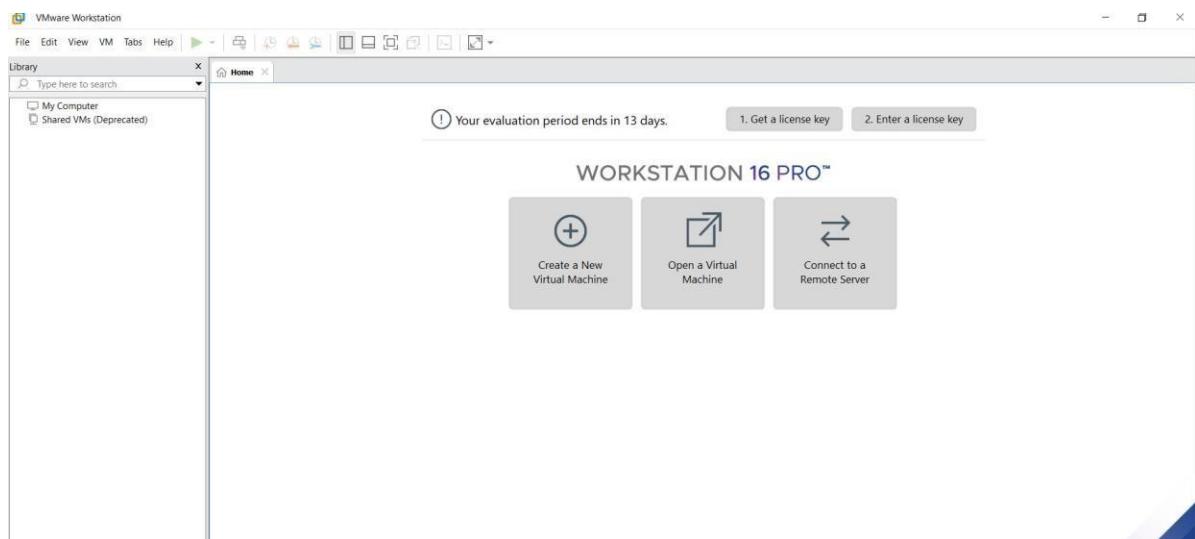
To create a virtual machine with 1 cpu, 2gb ram and 15gbstorage disk using a type 2 virtualization software.

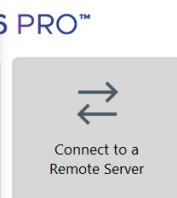
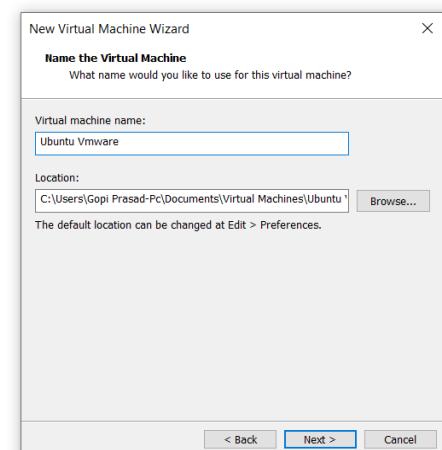
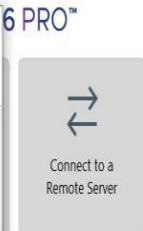
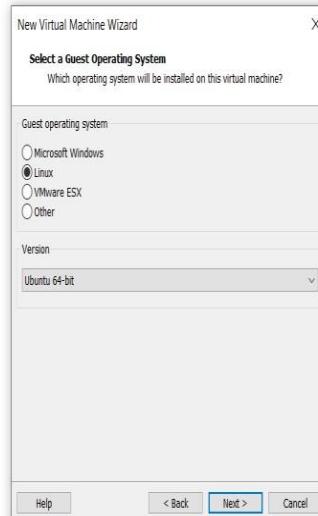
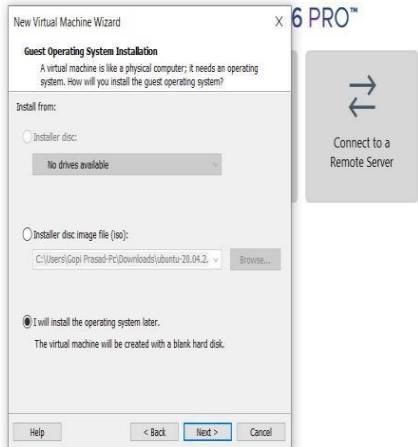
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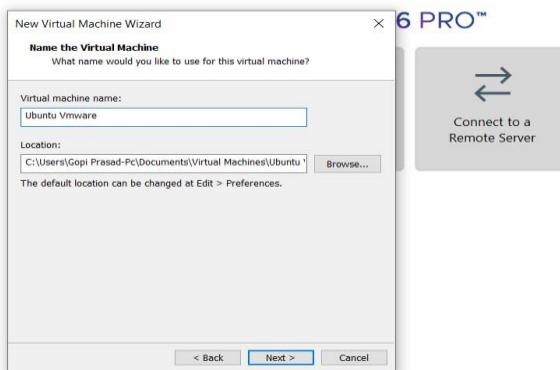


Index of /11.x/x86/release/

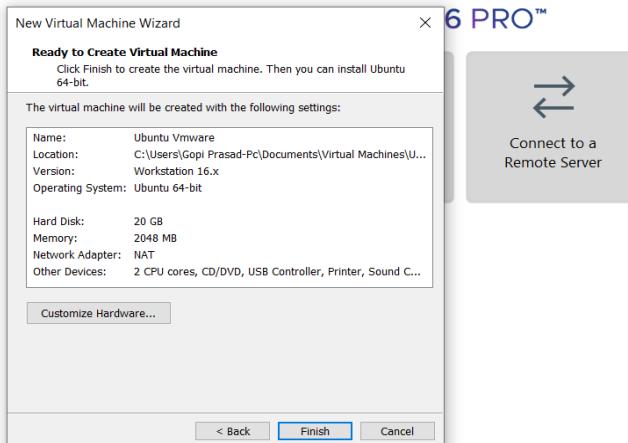
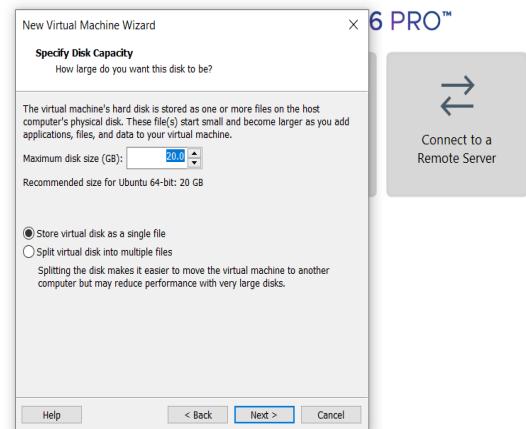
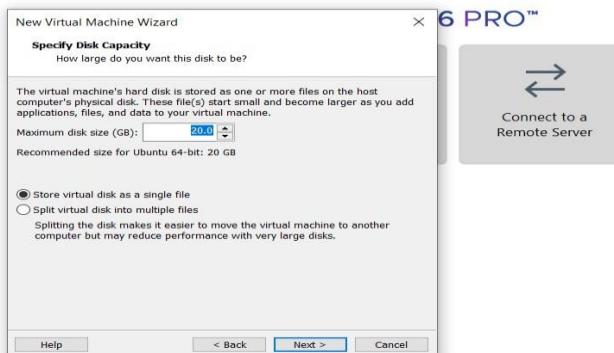
..		
distribution_files/		
src/		
Core-11.1.iso	09-Feb-2020 11:50	-
Core-11.1.iso.md5.txt	03-Dec-2019 11:14	-
Core-11.1.iso.zsync	01-Apr-2020 07:49	14757888
Core-current.iso	01-Apr-2020 07:49	48
CorePlus-11.1.iso	01-Apr-2020 07:49	50639
CorePlus-11.1.iso.md5.txt	01-Apr-2020 07:50	14757888
CorePlus-11.1.iso.zsync	01-Apr-2020 07:50	216006656
CorePlus-current.iso	01-Apr-2020 07:50	369358
TinyCore-11.1.iso	01-Apr-2020 07:50	216006656
TinyCore-11.1.iso.md5.txt	01-Apr-2020 07:50	19922944
TinyCore-11.1.iso.zsync	01-Apr-2020 07:50	52
TinyCore-current.iso	01-Apr-2020 07:50	68301

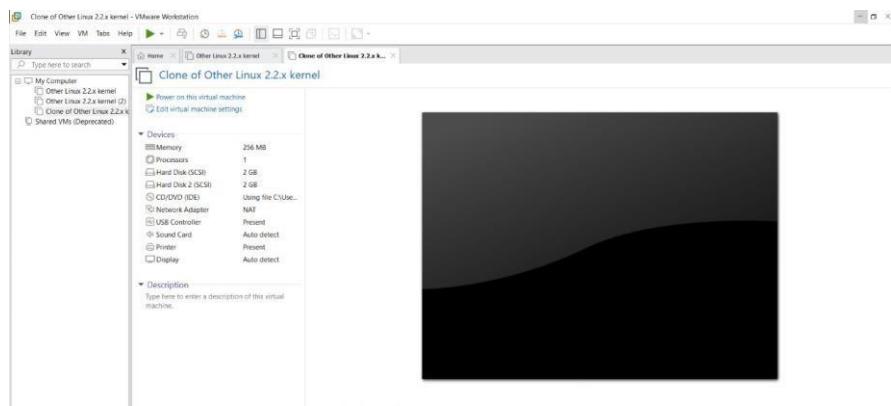






! Your evaluation period ends in 12 days. 1. Get a license key 2. Enter a license key ! Your evaluation period ends in 12 days. 1. Get a license key 2. Enter a license key





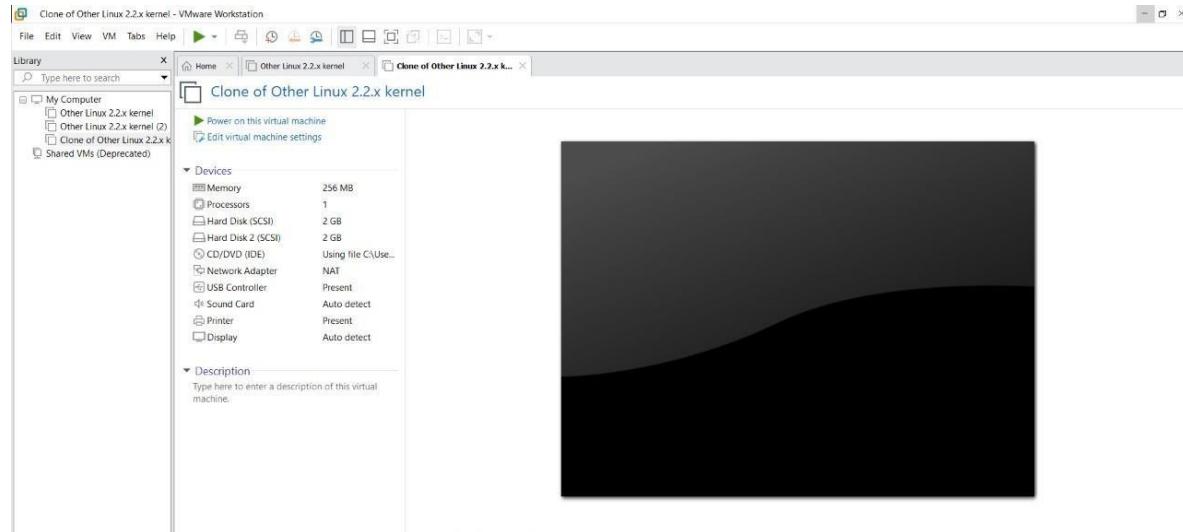
EXP 9: CREATE A VIRTUAL HARD DISK AND ALLOCATE THE STORAGE USING VM WARE WORKSTATION.

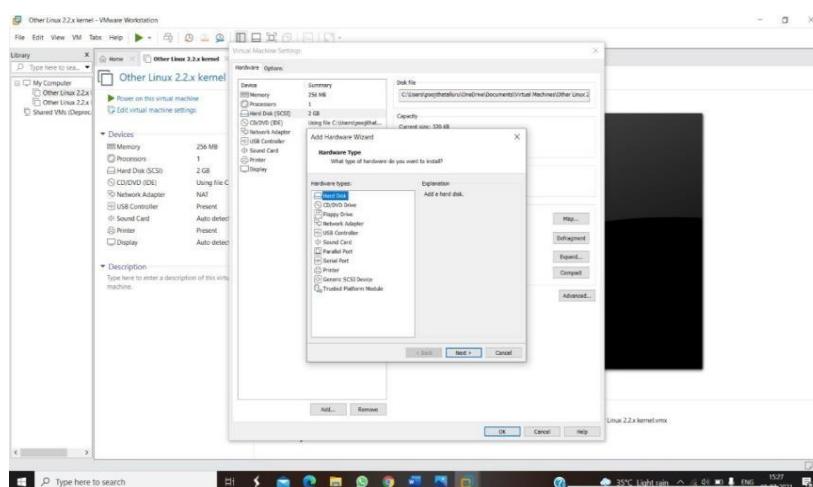
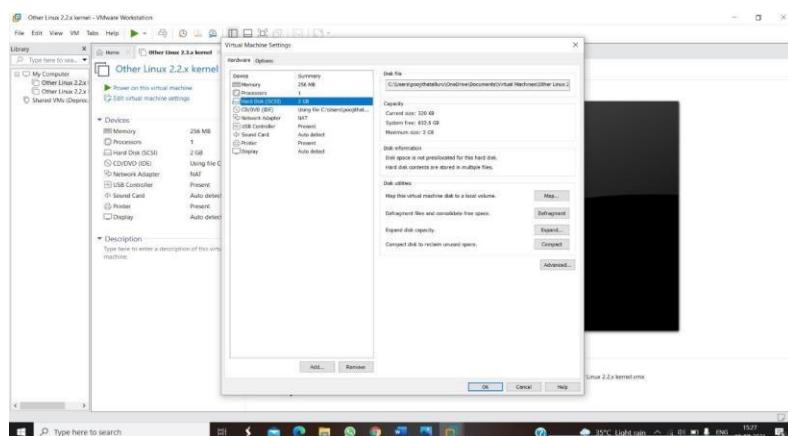
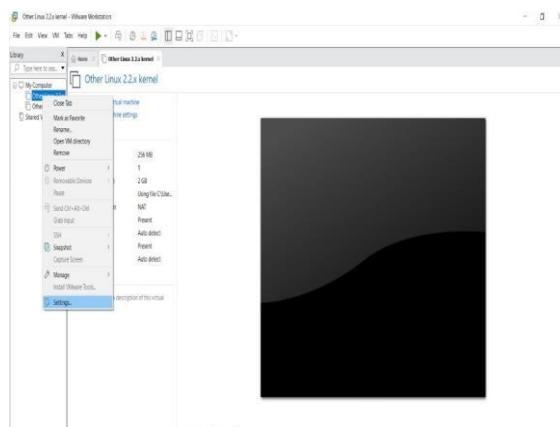
DATE: 17-09-2024

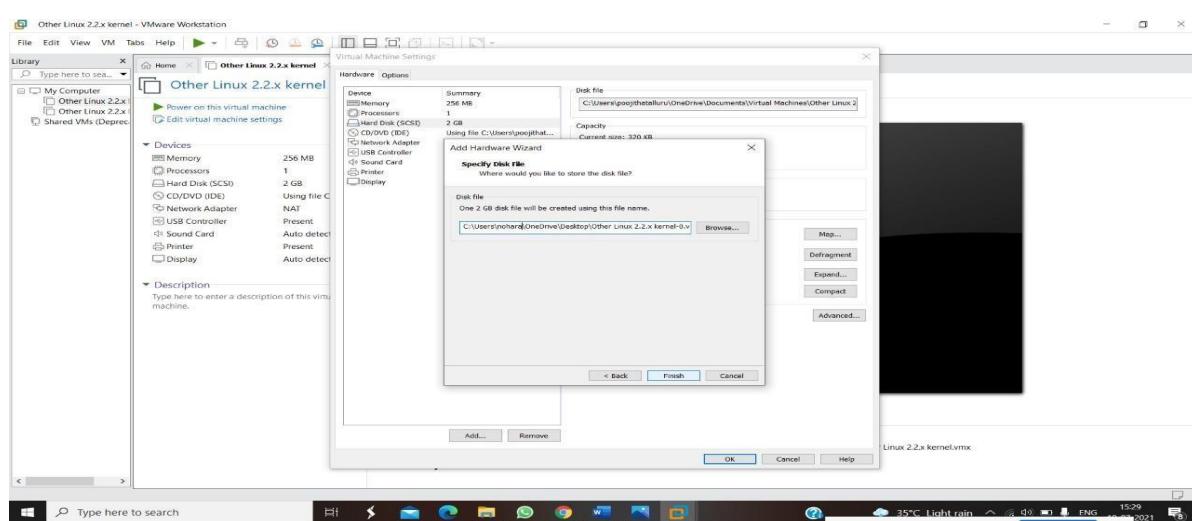
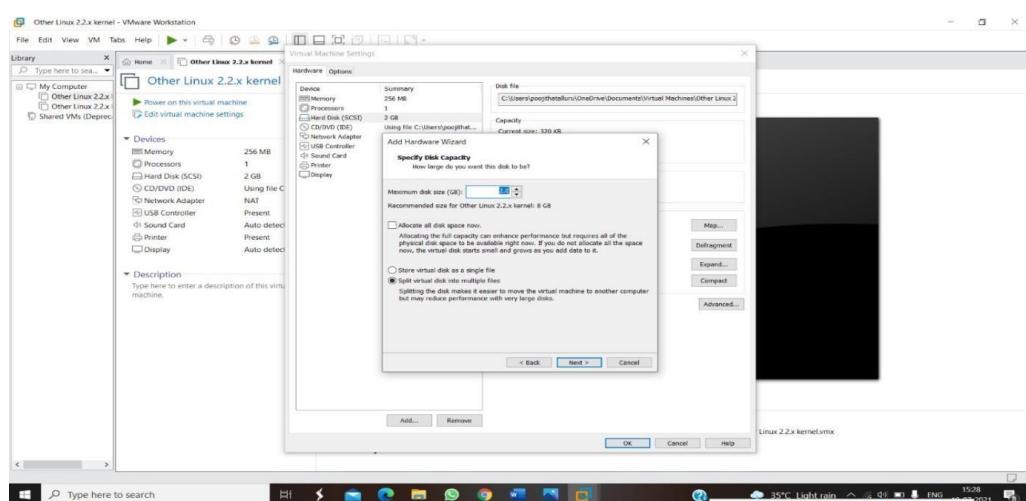
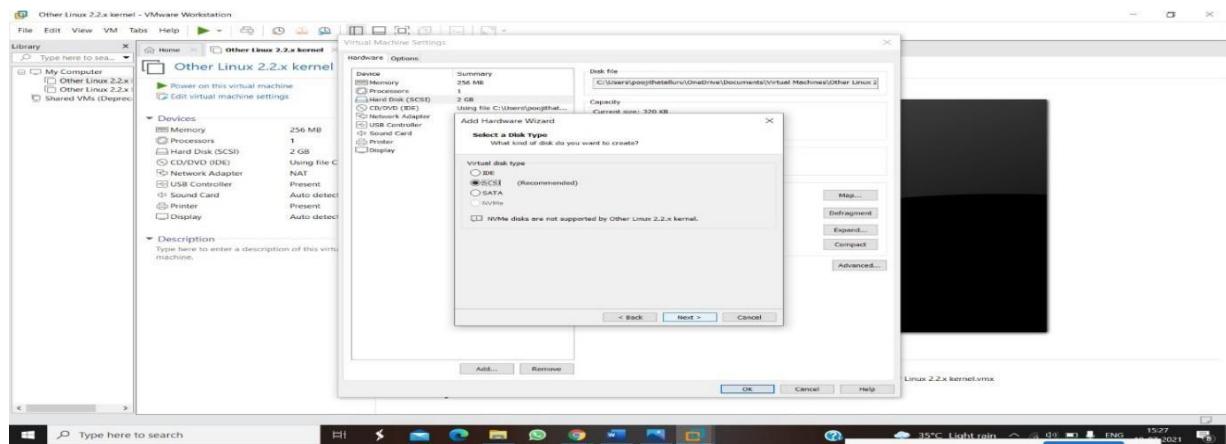
AIM:

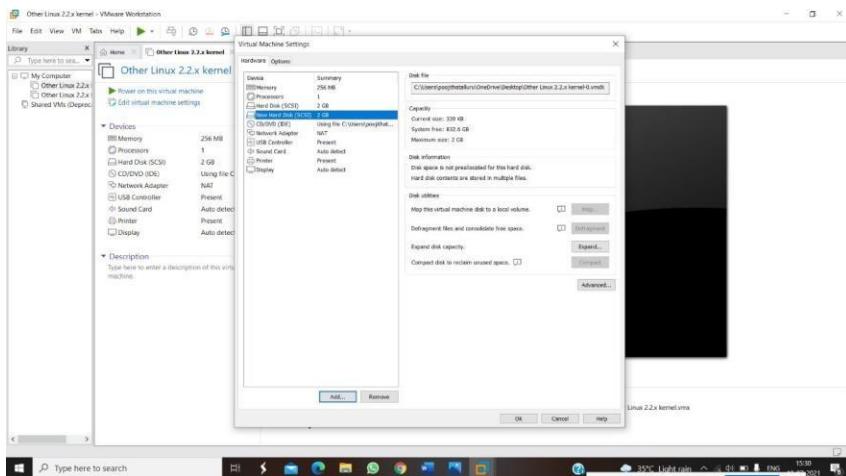
To create a virtual hard disk and allocate the storage using vm ware workstation

Screenshots and output:









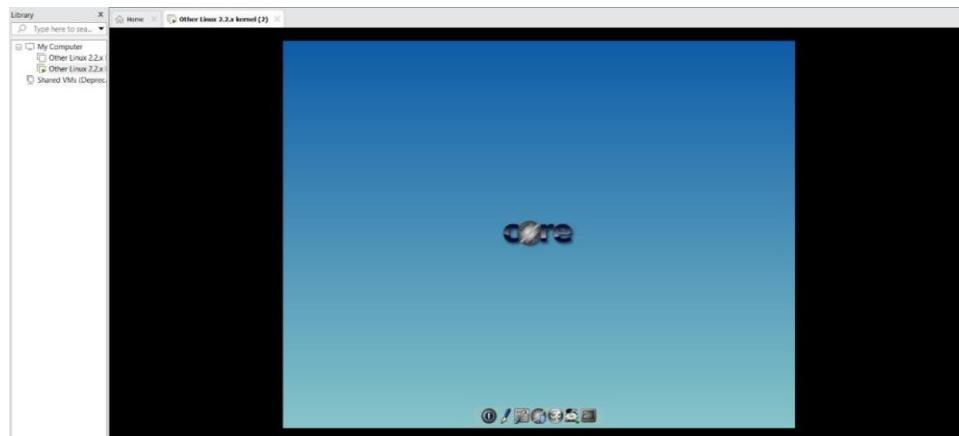
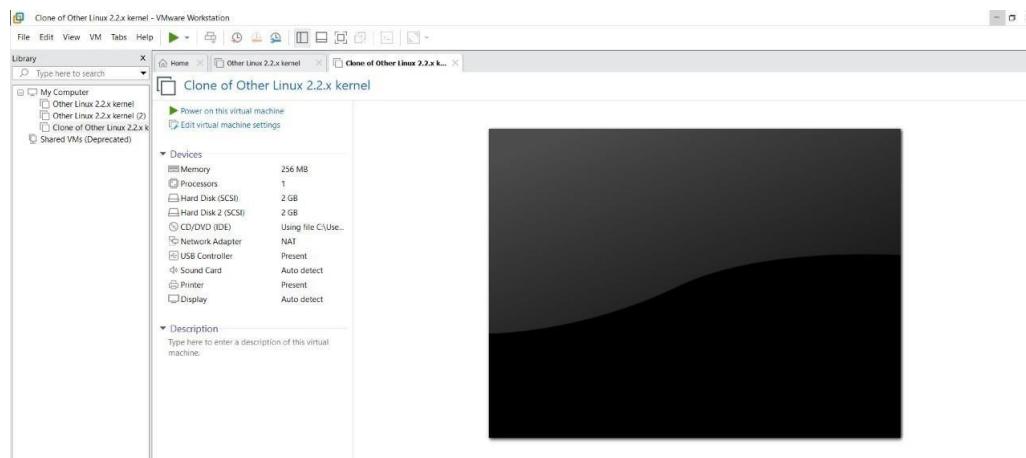
EXPNO 10: CREATE A SNAPSHOT OF A VM AND TEST IT BY LOADING THE PREVIOUS VERSION/CLONED VM

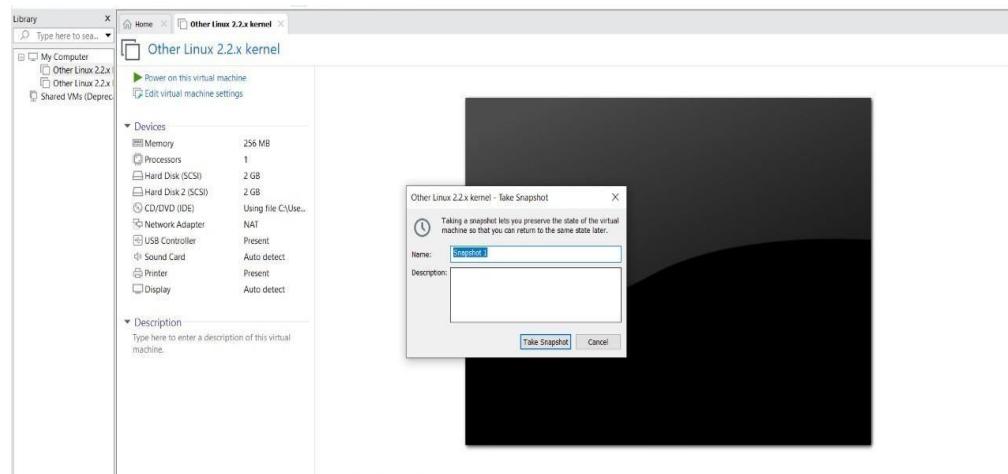
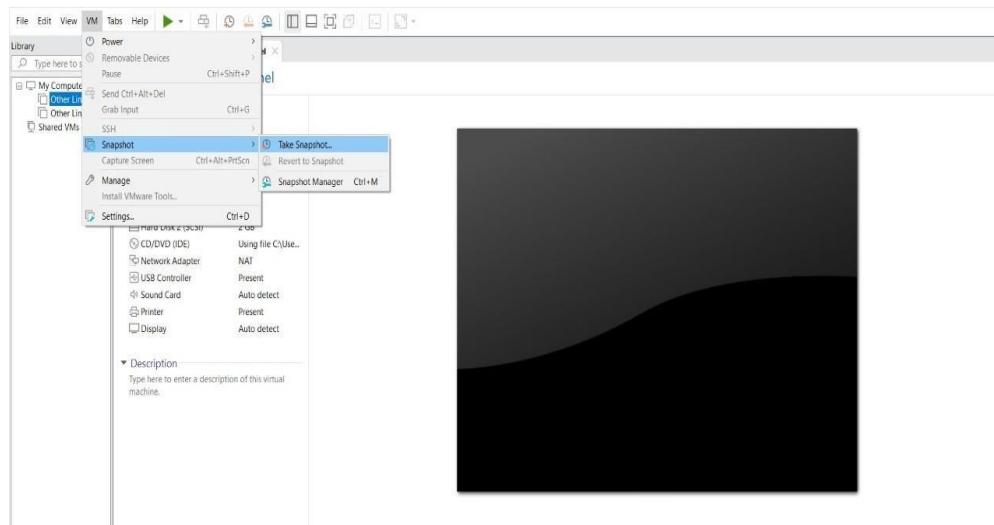
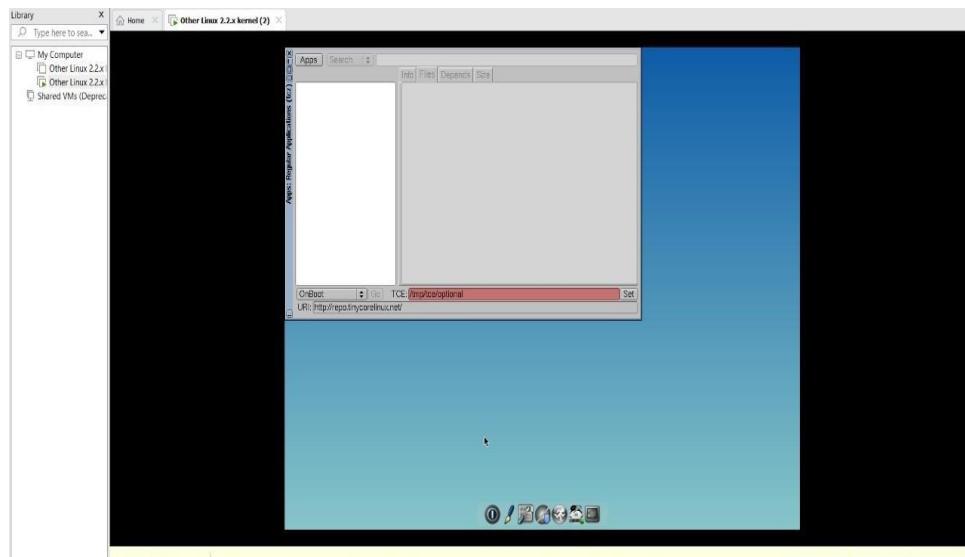
DATE: 17-09-2024

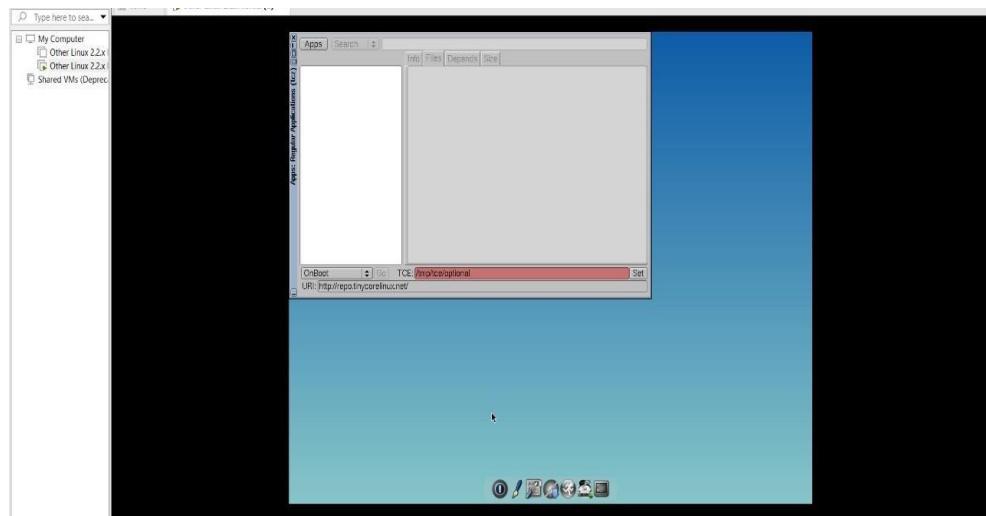
AIM:

To create a snapshot of a vm and test it by loading the previous version/cloned vm

Screenshots and outputs:







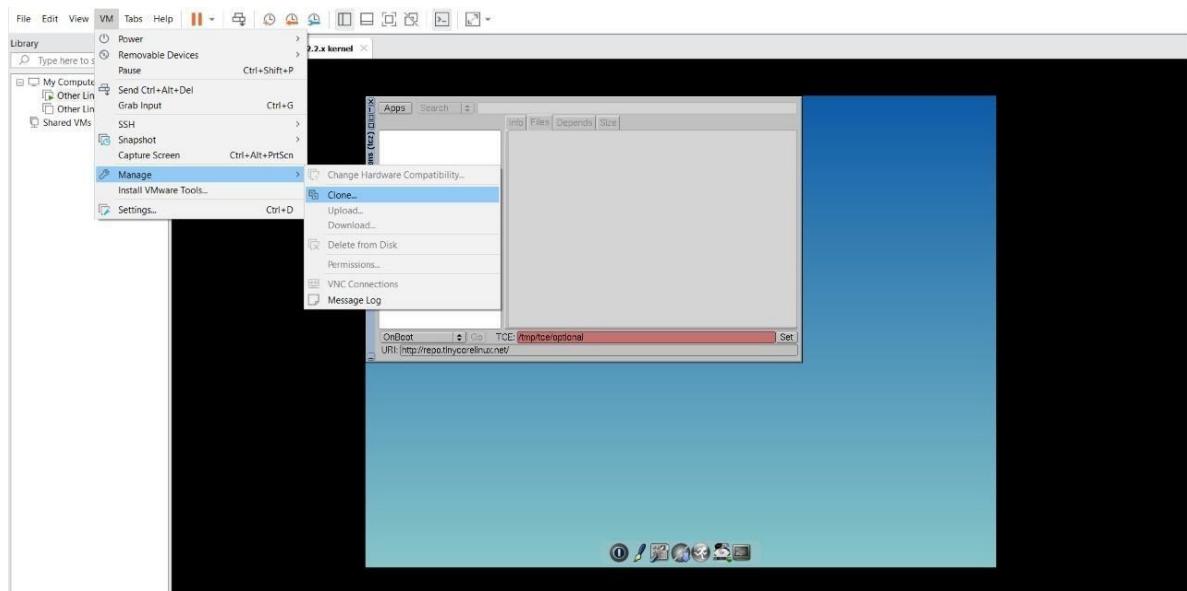
EXPNO 11: CREATE A CLONING OF A VM AND TEST IT BY LOADING THE PREVIOUS VERSION/CLONED VM.

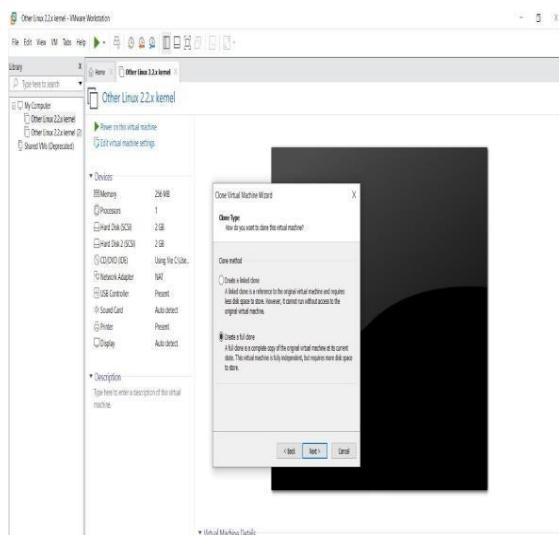
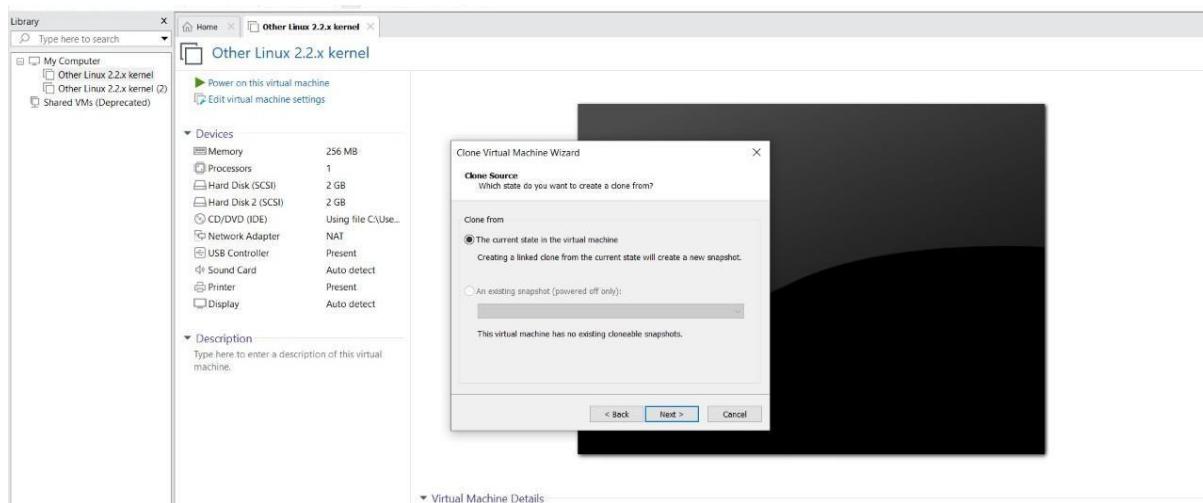
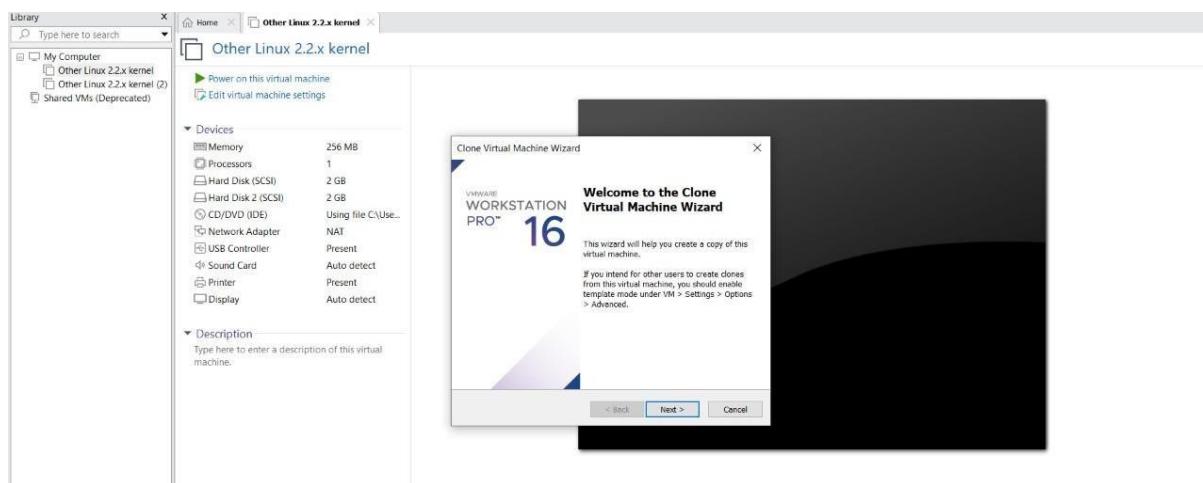
DATE: 17-09-2024

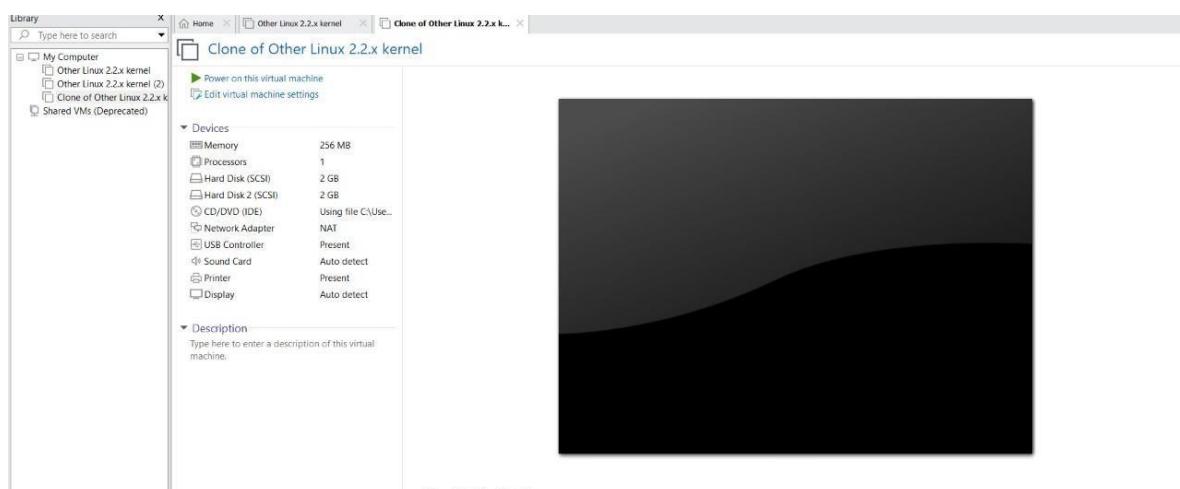
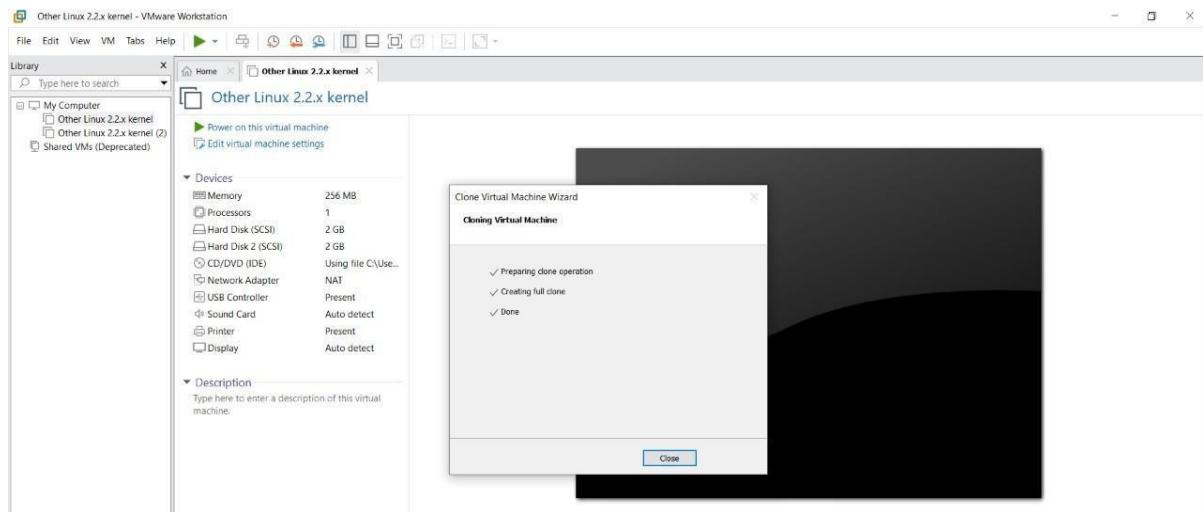
AIM:

To create a cloning of a vm and test it by loading the previous version/cloned vm.

Screenshots and outputs:







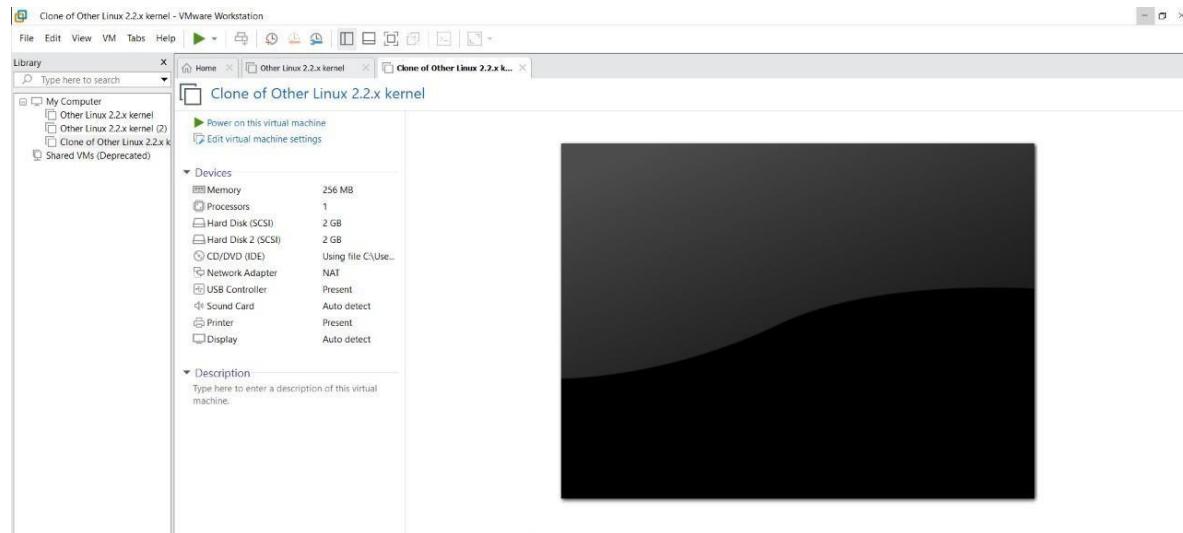
EXP 12: CHANGE HARDWARE COMPATIBILITY OF A VM (EITHER BY CLONE/CREATE NEW ONE) WHICH IS ALREADY CREATED AND CONFIGURED.

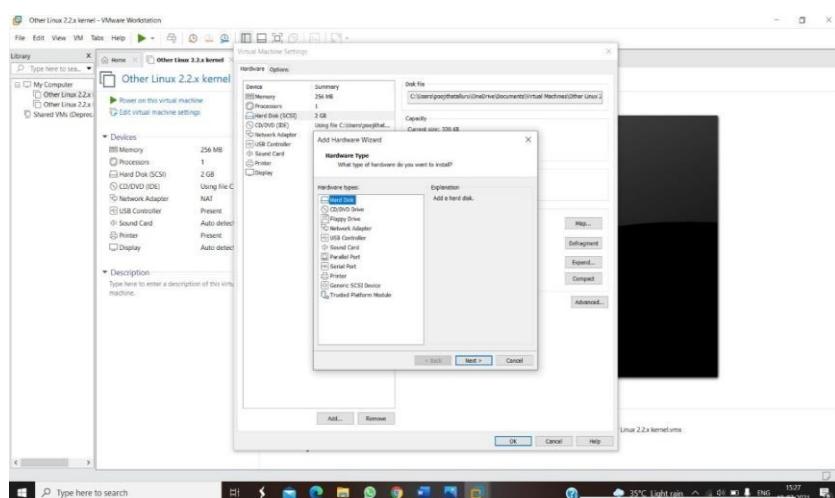
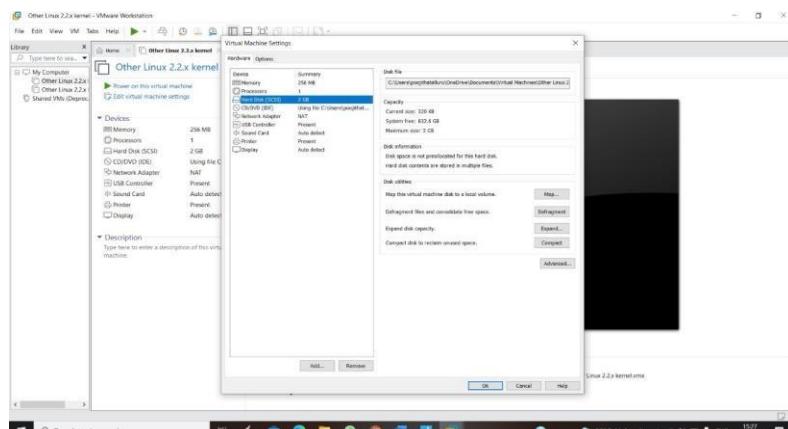
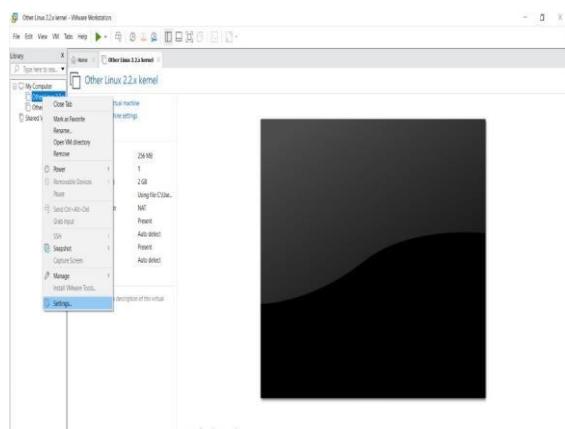
DATE: 17-09-2024

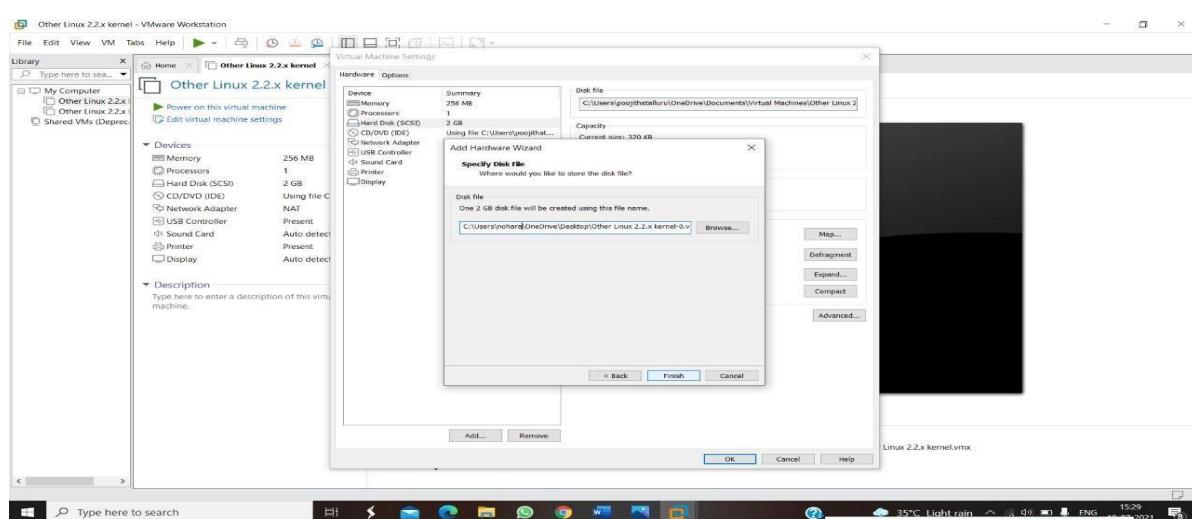
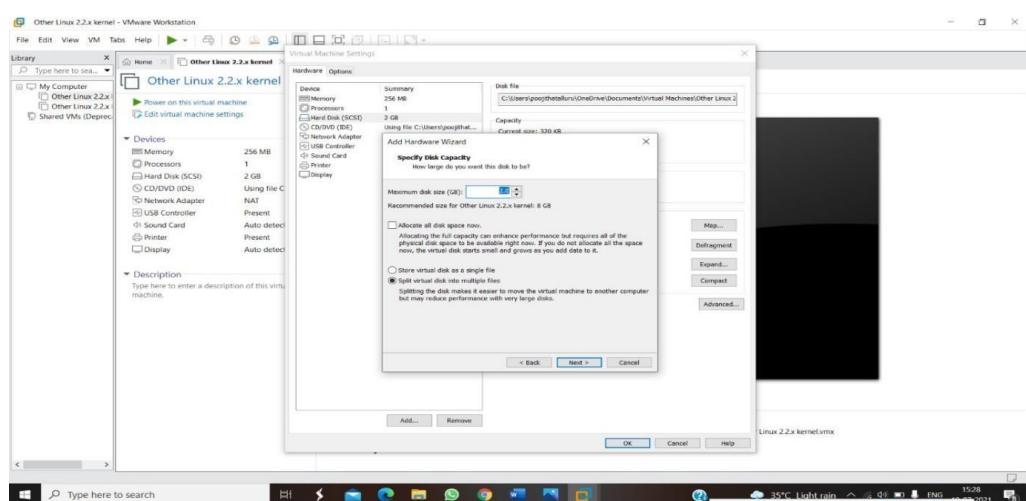
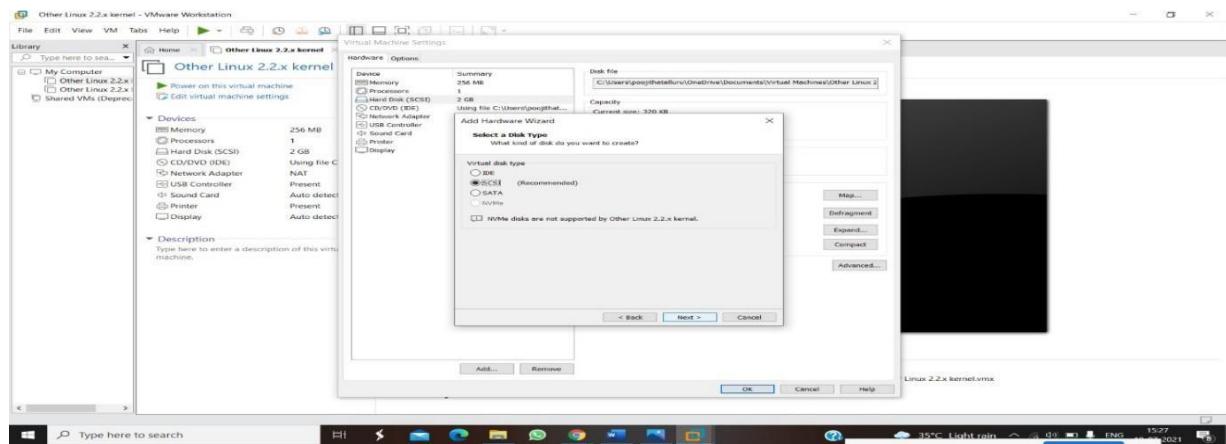
AIM:

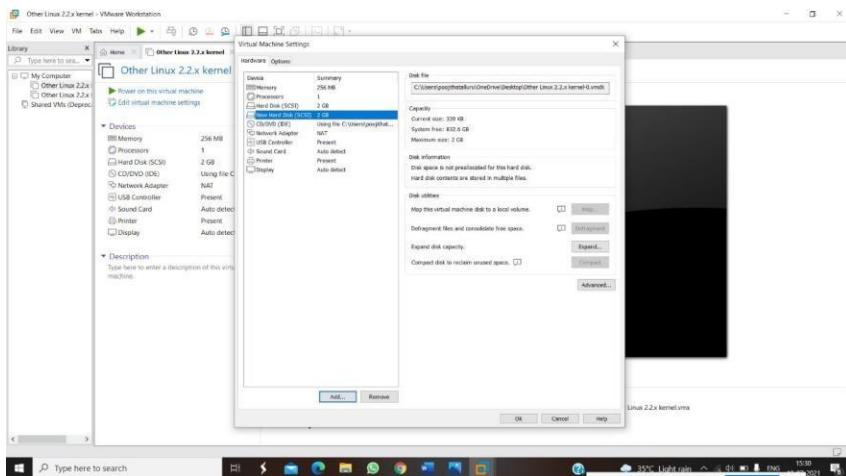
To Change Hardware compatibility of a VM (Either by clone/create new one) which is already created and configured.

Screenshots and Outputs:









EXP13. DEMONSTRATE INFRASTRUCTURE AS A SERVICE (IAAS) BY CREATING A VIRTUAL MACHINE USING A PUBLIC CLOUD SERVICE PROVIDER (AZURE), CONFIGURE WITH REQUIRED MEMORY AND CPU.

Date:18-09-2024

AIM:

To demonstrate infrastructure as a service (iaas) by creating a virtual machine using a public cloud service provider (azure), configure with required memory and cpu.

Screenshots and Outputs:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user account information. Below the navigation bar, the main header reads "Create a resource group". A green validation message "Validation passed." is displayed. The "Review + create" tab is selected. Under the "Basics" section, the following details are shown:

Subscription	Azure for Students
Resource group	Record
Region	East US

Under the "Tags" section, it says "None". At the bottom of the page, there are navigation links for "Create", "Previous", "Next", and "Download a template for automation".

Create a resource group

Basics

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](#) [Next : Tags >](#)

Create a resource group

Tags

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
<input type="text"/>	<input type="text"/>	Resource group

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

<https://portal.azure.com/#>

Resource groups

Default Directory

[Create](#) [Manage view](#)

Filter for any field...

Name ↑

- DefaultResourceGroup-CAU
- NetworkWatcherRG
- Record

Subscription **Location**

No grouping [List view](#)

Showing 1 to 3 of 3 records.

Name	Subscription	Location
<input checked="" type="checkbox"/> DefaultResourceGroup-CAU	Azure for Students	Australia Central
<input checked="" type="checkbox"/> NetworkWatcherRG	Azure for Students	East US
<input checked="" type="checkbox"/> Record	Azure for Students	East US

[< Previous](#) [Page 1 of 1](#) [Next >](#)

<https://portal.azure.com/#>

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 | Overview X

Deployment

Search (Ctrl+F) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 7/21/2021, 10:52:14 AM
Subscription: Azure for Students Correlation ID: a0f40b35-8270-49dc-bcf7-42eec66e5c61
Resource group: Record

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Security Center Secure your apps and infrastructure Go to Azure security center >

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<https://portal.azure.com/#>

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 >

Record-virtual Virtual machine

Search (Ctrl+F) Connect Start Restart Stop Capture Delete Refresh Open in mobile

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Networking Connect Windows Admin Center (preview) Disks Size Security Advisor recommendations Extensions

Essentials

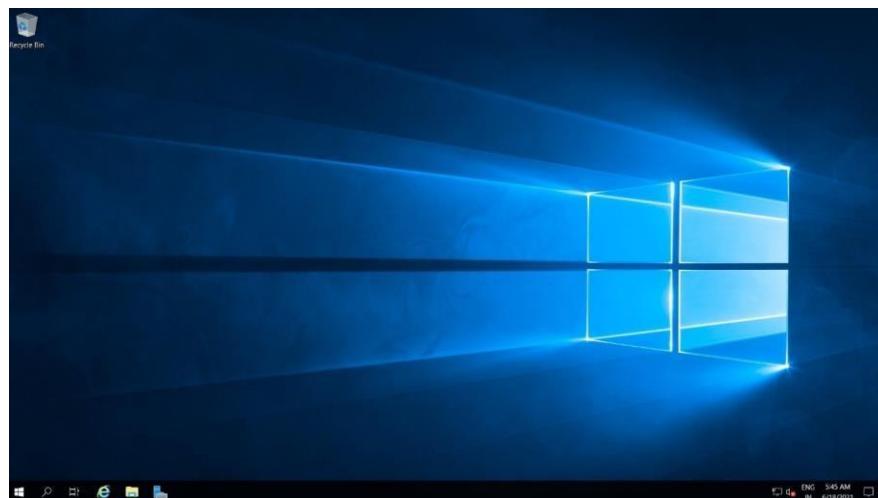
Resource group (change) : Record	Operating system : Windows (Windows Server 2019 Datacenter)
Status : Running	Size : Standard DS1 V2 (1 vcpus, 3.5 GB memory)
Location : East US	Public IP address : 23.96.9.147
Subscription (change) : Azure for Students	Virtual network/subnet : Record-vnet/default
Subscription ID : db4ee0b-1e34-4be0-9c9c-65cc8d398405	DNS name : Not configured
Tags (change) : Click here to add tags	

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : Record-virtual	Networking
Operating system : Windows (Windows Server 2019 Datacenter)	Public IP address : 23.96.9.147
Publisher : MicrosoftWindowsServer	Public IP address (IPv6) : -
Offer : WindowsServer	Private IP address : 10.0.0.4
Plan : 2019-Datacenter	Private IP address (IPv6) : -
VM generation : V1	Virtual network/subnet : Record-vnet/default
Agent status : Ready	DNS name : Configure

<https://portal.azure.com/#>



EXP 17 .DEMONSTRATE INFRASTRUCTURE AS A SERVICE(IAAS) BY CREATING A VIRTUAL MACHINE USING A PUBLIC CLOUD SERVICE PROVIDER(AZURE/GCP/AWS) CONFIGURE WITH MINIMUM CPU, RAM AND STORAGE AND LAUNCH THE VM IMAGE.

Date:18-09-2024

AIM:

To demonstrate infrastructure as a service(iaas) by creating a virtual machine using a public cloud service provider(azure/gcp/aws) configure with minimum cpu,ram and storage and launch the vm image.

Screenshots and outputs:

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar titled 'Resource groups' with a 'Default Directory' section containing two items: 'DefaultResourceGroup-CAU' and 'NetworkWatcherRG'. At the top right, the user's name 'srisaivenkatasubbarao1...' and 'DEFAULT DIRECTORY' are visible. The main content area is titled 'Create a resource group' and has a green validation message 'Validation passed.' Below it, there are three tabs: 'Basics', 'Tags', and 'Review + create' (which is underlined). Under 'Basics', there are fields for 'Subscription' (set to 'Azure for Students'), 'Resource group' (set to 'Record'), and 'Region' (set to 'East US'). Under 'Tags', it says 'None'. At the bottom, there are buttons for 'Create', 'Previous', 'Next >', and 'Download a template for automation'.

Create a resource group

Basics

Subscription *: Azure for Students
Resource group *: Record
Region *: (US) East US

Tags

Name: Record
Value: Resource group

Resource groups

Name	Subscription	Region
DefaultResourceGroup-CAU	Azure for Students	(US) East US
NetworkWatcherRG	Azure for Students	East US
Record	Azure for Students	East US

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 | Overview X

Deployment

Search (Ctrl+/) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 7/21/2021, 10:52:14 AM
Subscription: Azure for Students Correlation ID: a0f40b35-8270-49dc-bcf7-42eec66e5c61
Resource group: Record

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Security Center Secure your apps and infrastructure Go to Azure security center >

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https://portal.azure.com/#

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 > Record-virtual X

Virtual machine

Search (Ctrl/)

Connect Start Restart Stop Capture Delete Refresh Open in mobile

Essentials

Resource group (change) : Record	Operating system : Windows (Windows Server 2019 Datacenter)
Status : Running	Size : Standard D51 V2 (1 vcpus, 3.5 GB memory)
Location : East US	Public IP address : 23.96.9.147
Subscription (change) : Azure for Students	Virtual network/subnet : Record-vnet/default
Subscription ID : db4eee0b-1e34-4be0-9c9c-65cc8d398405	DNS name : Not configured
Tags (change) : Click here to add tags	

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : Record-virtual	Networking
Operating system : Windows (Windows Server 2019 Datacenter)	Public IP address : 23.96.9.147
Publisher : MicrosoftWindowsServer	Public IP address (IPv6) : -
Offer : WindowsServer	Private IP address : 10.0.0.4
Plan : 2019-Datacenter	Private IP address (IPv6) : -
VM generation : V1	Virtual network/subnet : Record-vnet/default
Agent status : Ready	DNS name : Configure

Networking

https://portal.azure.com/#

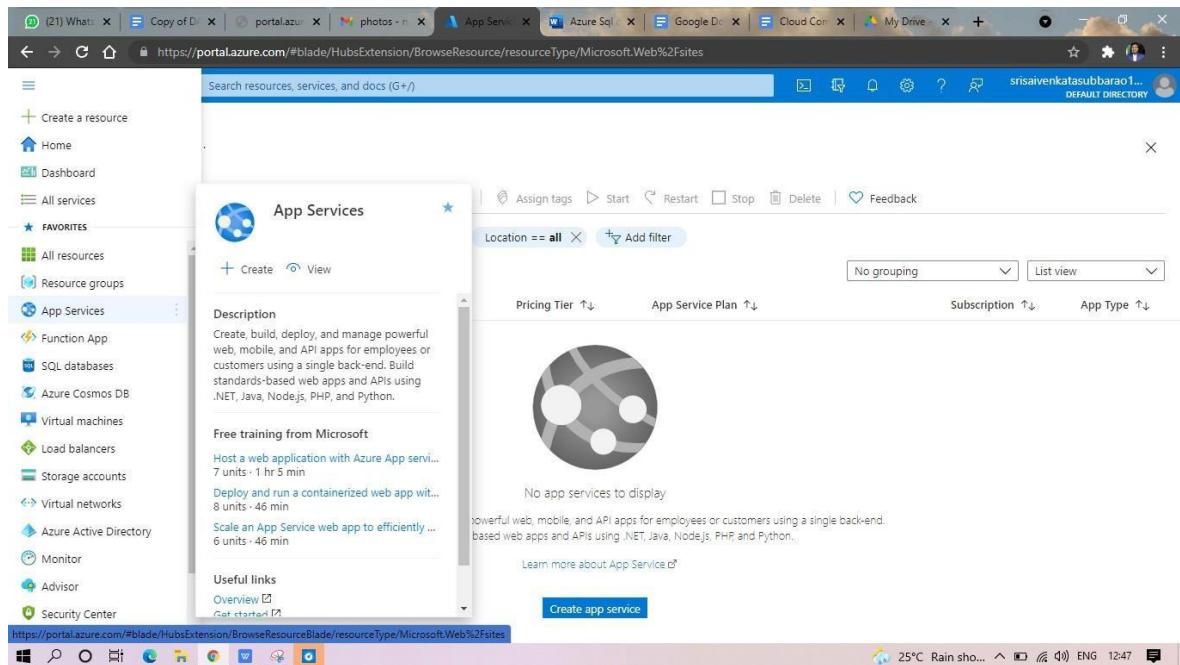


EXP15.CREATE A SIMPLE WEB SITE USING ANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) AND CHECK THE PUBLIC ACCESSIBILITY OFTHE STORED FILE TO DEMONSTRATE STORAGE AS A SERVICE

Date:19-09-2024

AIM: CREATE A SIMPLE WEB SITE USING ANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) AND CHECK THE PUBLIC ACCESSIBILITY OFTHE STORED FILE TO DEMONSTRATE STORAGE AS A SERVICE

Screenshots and Outputs:



Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > App Services > Create Web App ...

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. 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 * Azure for Students

Resource Group * Record

Instance Details

Name * .azurewebsites.net

Publish * Code Docker Container

Runtime stack * Node 14 LTS

Operating System * Linux Windows

Review + create < Previous Next : Deployment (Preview) >

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > App Services > Create Web App ...

Basics **Deployment (Preview)** **Monitoring** **Tags** **Review + create**

Summary

Basic (B1) sku
Estimated price - loading ...

Details

Subscription	db4eee0b-1e34-4be0-9c9c-65cc8d398405
Resource Group	Record
Name	Record-app
Publish	Code
Runtime stack	Node 14 LTS

App Service Plan (New)

Name	ASP-Record-92e3
Operating System	Linux
Region	Australia_Central

Create < Previous Next > Download a template for automation

Microsoft Azure | Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > Microsoft.Web-WebApp-Portal-1b6a401b-9ae6 | Overview

Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.Web-WebApp-Portal-1b6a401b-9ae6 Start time: 7/21/2021, 12:49:54 PM Correlation ID: 76653cd2-c090-4d97-a1e5-21033aa42efc

Subscription: Azure for Students Resource group: Record

Deployment details (Download)

Next steps

Manage deployments for your app. Recommended Protect your app with authentication. Recommended

Go to resource

Security Center Secure your apps and infrastructure Go to Azure security center >

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Home > Microsoft.Web-WebApp-Portal-1b6a401b-9ae6 >

Record-app App Service

Search (Ctrl+ /) Browse Stop Swap Restart Delete Refresh Get publish profile Reset publish profile Share to mobile ...

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Security Events (preview)

Deployment Quickstart Deployment slots Deployment Center

Settings Configuration Authentication

https://portal.azure.com/#

Essentials

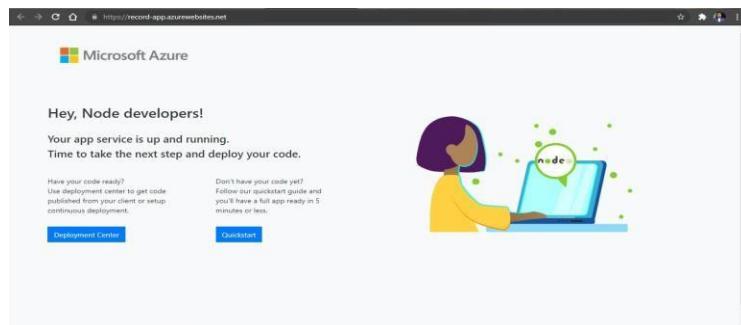
Resource group (change): Record	URL: https://record-app.azurewebsites.net
Status: Running	App Service Plan: ASP-Record-92e3 (B1: 1)
Location: Australia Central	FTP/deployment username: No FTP/deployment user set
Subscription (change): Azure for Students	FTP hostname: ftp://waws-prod-cbr20-003.ftp.azurewebsites.wind...
Subscription ID: db4eee0b-1e34-4be0-9c9c-65cc8d398405	FTPS hostname: https://waws-prod-cbr20-003.ftp.azurewebsites.win...
Tags (change): Click here to add tags	

JSON View

Diagnose and solve problems Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

Application Insights Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

App Service Advisor App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.



EXP 17 .DEMONSTRATE INFRASTRUCTURE AS A SERVICE(IAAS) BY CREATING AVIRTUAL MACHINE USING A PUBLIC CLOUD SERVICE PROVIDER(AZURE/GCP/AWS) CONFIGURE WITH MINIMUM CPU, RAM ANDSTORAGE AND LAUNCH THE VM IMAGE.

Date:19-09-2024

AIM:

To demonstrate infrastructure as a service(iaas) by creating a virtual machine using a public cloud service provider(azure/gcp/aws) configure with minimum cpu,ram and storage and launch the vm image.

Screenshots and Outputs:

The screenshot shows the Microsoft Azure portal interface for creating a new resource group. The top navigation bar includes 'Microsoft Azure', a search bar, and user information ('srisiaivenkatasubbarao1... DEFAULT DIRECTORY'). The main area is titled 'Create a resource group' with a green validation message 'Validation passed.' Below this, there are tabs for 'Basics', 'Tags', and 'Review + create'. Under 'Basics', settings are listed: Subscription (Azure for Students), Resource group (Record), and Region (East US). Under 'Tags', it says 'None'. At the bottom, there are buttons for 'Create', 'Previous', 'Next >', and 'Download a template for automation'.

Create a resource group

Basics

Subscription * Azure for Students
Resource group * Record
Region * (US) East US

Tags

Name : Value : Resource group

Review + create

Resource groups

Name	Subscription	Location
DefaultResourceGroup-CAU	Azure for Students	Australia Central
NetworkWatcherRG	Azure for Students	East US
Record	Azure for Students	East US

No grouping List view

Page 1 of 1

<https://portal.azure.com/#>

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 | Overview X

Deployment

Search (Ctrl+/) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 7/21/2021, 10:52:14 AM
Subscription: Azure for Students Correlation ID: a0f40b35-8270-49dc-bcf7-42eec66e5c61
Resource group: Record

Deployment details (Download)

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Security Center Secure your apps and infrastructure Go to Azure security center >

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Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1... DEFAULT DIRECTORY

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210721104828 >

Record-virtual Virtual machine

Search (Ctrl/+) Connect Start Restart Stop Capture Delete Refresh Open in mobile

Essentials

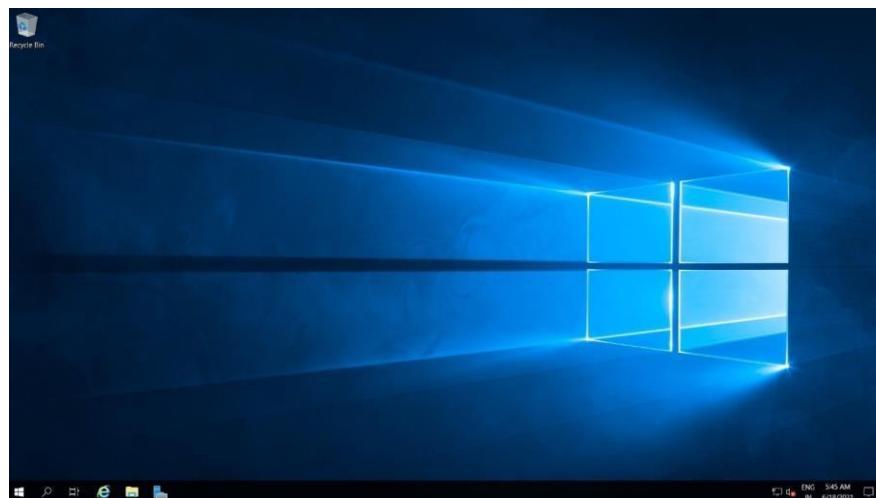
Resource group (change) : Record	Operating system : Windows (Windows Server 2019 Datacenter)
Status : Running	Size : Standard D51 V2 (1 vcpus, 3.5 GB memory)
Location : East US	Public IP address : 23.96.9.147
Subscription (change) : Azure for Students	Virtual network/subnet : Record-vnet/default
Subscription ID : db4eee0b-1e34-4be0-9c9c-65cc8d398405	DNS name : Not configured
Tags (change) : Click here to add tags	

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine Networking

Computer name : Record-virtual	Public IP address : 23.96.9.147
Operating system : Windows (Windows Server 2019 Datacenter)	Public IP address (IPv6) : -
Publisher : MicrosoftWindowsServer	Private IP address : 10.0.0.4
Offer : WindowsServer	Private IP address (IPv6) : -
Plan : 2019-Datacenter	Virtual network/subnet : Record-vnet/default
VM generation : V1	DNS name : Configure
Agent status : Ready	

https://portal.azure.com/#



EXP19.CREATE A STORAGE SERVICE USING ANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) AND CHECK THE PUBLIC ACCESSIBILITY OFTHE STORED FILE TO DEMONSTRATE STORAGE AS A SERVICE.

DATE: 20-09-2024

AIM: to create a storage service using any public cloud service provider (azure/gcp/aws) and check the public accessibility ofthe stored file to demonstrate storage as a service.

Screenshots and outputs:

The screenshot shows the Azure portal interface with the URL <https://portal.azure.com/#blade/HubsExtension/BrowseResource/resourceType/Microsoft.Storage%2FStorageAccounts>. The left sidebar is visible with various service icons. The main area is titled "Storage accounts" and displays a message: "No storage accounts to display". It includes a "Create" button and a detailed description of what a storage account is used for, mentioning it can store up to 500TB of data. There are also "Learn more" and "Free training from Microsoft" links.

Microsoft Azure Search resources, services, and docs (G+) srisalveenkatasubbarao1... DEFAULT DIRECTORY

Home > recordstoragesubbarao_1626852653220 | Overview

Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: recordstoragesubbarao_1626852653220 Start time: 7/21/2021, 1:00:57 PM
Subscription: Azure for Students Correlation ID: 49a91964-e371-4019-ae37-954bf26dd89f
Resource group: Record

Deployment details (Download)

Next steps Go to resource

Deployment succeeded Deployment 'recordstoragesubbarao_1626852653220' to resource group 'Record' was successful.

Go to resource Pin to dashboard

Security Center Secure your apps and infrastructure Go to Azure security center >

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 >

https://portal.azure.com/#

Microsoft Azure Search resources, services, and docs (G+) srisaivenkatasubbarao1...
DEFAULT DIRECTORY

Home > recordstoragesubbarao ...

Storage account

recordstoragesubbarao

Storage account

Search (Ctrl+/) Open in Explorer Delete Move Refresh Feedback

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage Explorer (preview)

Data storage Containers File shares Queues Tables

Security + networking Networking

Microsoft recommends upgrading to the new alerts platform. [Learn more](#)

Essentials

Resource group (change)	:	Record	Performance/Access tier	:	Standard/Hot
Location	:	East US	Replication	:	Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	:	Primary: East US, Secondary: West US	Account kind	:	StorageV2 (general purpose v2)
Subscription (change)	:	Azure for Students	Provisioning state	:	Succeeded
Subscription ID	:	db4eee0b-1e34-4be0-9c9c-65cc8d398405	Created	:	7/21/2021, 1:01:05 PM
Disk state	:	Primary: Available, Secondary: Available			

Tags (change) :

Properties Monitoring Capabilities (7) Recommendations Tutorials Developer Tools

Blob service Security

Hierarchical namespace	Disabled	Require secure transfer for REST API operations	Enabled
Default access tier	Hot	Storage account key access	Enabled
Blob public access	Enabled	Minimum TLS version	Version 1.2
Blob soft delete	Enabled (7 days)		

The screenshot shows the Microsoft Azure portal interface. The main title bar says "Microsoft Azure". The left sidebar shows a navigation tree with "deeksha" selected under "Storage account". The main content area displays the properties of the storage account "deeksha".

Essentials

Resource group (change)	: Gopi	Performance/Access tier	: Standard/Hot
Location	: East US	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: StorageV2 (general purpose v2)
Subscription (change)	: Azure for Students	Provisioning state	: Succeeded
Subscription ID	: 88bd0e11-e431-4a2a-8040-bdf7d22901aa	Created	: 6/22/2021, 10:17:25 AM
Disk state	: Primary: Available, Secondary: Available		

Tags (change) :

Properties **Monitoring** **Capabilities (?)** **Recommendations** **Tutorials** **Developer Tools**

Blob service

Hierarchical namespace	Disabled	Security
Default access tier	Hot	Require secure transfer for REST API operations
Blob public access	Enabled	Storage account key access
Blob soft delete	Enabled (7 days)	Minimum TLS version
Container soft delete	Enabled (7 days)	Infrastructure encryption
Versioning	Disabled	

Networking

32°C ENG 10:20 22-06-2021

The screenshot shows the Microsoft Azure portal interface. The main title bar says "Microsoft Azure". The left sidebar shows a navigation tree with "deeksha" selected under "Static website". The main content area displays the configuration for the static website.

Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. Learn more

Static website

Disabled **Enabled**

An Azure Storage container has been created to host your static website. **Sweb**

Primary endpoint : <https://deeksha.z13.web.core.windows.net/>

Secondary endpoint : <https://deeksha-secondary.z13.web.core.windows.net/>

Index document name : index.html

Error document path : 404.html

33°C ENG 10:43 22-06-2021

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

Home > recordstoragesubbarao

recordstoragesubbarao | Storage Explorer (preview) ...

Storage account

Search (Ctrl+/) Search

Upload Download Open New Folder Copy URL Select All More

Active blobs (default) \$web Search by prefix (case-sensitive)

NAME	ACCESS TIER	ACCESS TIER LAST MODIFIED	LAST MODIFIED	BLOB TYPE	CONTENT TYPE	SIZE	STATUS	RI
about.jpg	Hot (inferred)	7/21/2021, 1:30:35 PM	7/21/2021, 1:30:35 PM	Block Blob	image/jpeg	188.6 KB	Active	
hero-bg.png	Hot (inferred)	7/21/2021, 1:30:35 PM	7/21/2021, 1:30:35 PM	Block Blob	image/png	7.1 KB	Active	
hero-img.png	Hot (inferred)	7/21/2021, 1:30:35 PM	7/21/2021, 1:30:35 PM	Block Blob	image/png	22.1 KB	Active	
index.html	Hot (inferred)	7/21/2021, 1:30:34 PM	7/21/2021, 1:30:34 PM	Block Blob	text/html	9.6 KB	Active	
logo.png	Hot (inferred)	7/21/2021, 1:30:34 PM	7/21/2021, 1:30:34 PM	Block Blob	image/png	1.0 KB	Active	
README.md	Hot (inferred)	7/21/2021, 1:30:34 PM	7/21/2021, 1:30:34 PM	Block Blob	application/octet-stream	14 B	Active	
script.js	Hot (inferred)	7/21/2021, 1:30:34 PM	7/21/2021, 1:30:34 PM	Block Blob	text/javascript	447 B	Active	
style.css	Hot (inferred)	7/21/2021, 1:30:34 PM	7/21/2021, 1:30:34 PM	Block Blob	text/css	3.8 KB	Active	
values-1.png	Hot (inferred)	7/21/2021, 1:30:35 PM	7/21/2021, 1:30:35 PM	Block Blob	image/png	203 KB	Active	
values-2.png	Hot (inferred)	7/21/2021, 1:30:35 PM	7/21/2021, 1:30:35 PM	Block Blob	image/png	22.2 KB	Active	
values-3.png	Hot (inferred)	7/21/2021, 1:30:35 PM	7/21/2021, 1:30:35 PM	Block Blob	image/png	19.6 KB	Active	

Showing 1 to 11 of 11 cached items

https://recordstoragesubbarao.z13.web.core.windows.net

React

We offer modern solutions for growing your business

We are team of talented designers making websites with Bootstrap

Get Started

EXP20.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)

Date:20-09-2024

AIM: 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)

Screenshots and outputs:

The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation bar is visible, showing various service categories like Home, Dashboard, All services, and SQL databases. The main content area displays the 'SQL databases' blade under the 'All services' category. At the top of this blade, there is a search bar and several quick access links: SQL databases, Resource groups, All resources, Virtual machines, Storage accounts, App Services, Virtual networks, Help + support, and More services. Below these links, a table lists four items: 'SQL database' (last viewed 3 hours ago), 'Resource group' (last viewed 3 hours ago), 'Resource group' (last viewed 3 hours ago), and 'Resource group' (last viewed 3 hours ago). At the bottom of the blade, there are buttons for 'Create' and 'View'. The status bar at the bottom of the browser window shows the URL as <https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Sql%2Fservers%2Fdatabases>.

The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#create/Microsoft.SQLDatabase>. The page title is "Create SQL Database". The left sidebar shows "SQL databases" and a list of databases including "test-db (srisha123/test-db)". The main content area is titled "Create SQL Database" with tabs for Basics, Networking, Security, Additional settings, Tags, and Review + create. The Basics tab is selected. It contains fields for Subscription (set to "Azure for Students") and Resource group (set to "test"). Below these are sections for Project details and Database details, which include fields for "Enter database name". At the bottom are "Review + create" and "Next : Networking >" buttons.

The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#create/Microsoft.SQLDatabase>. The page title is "Create SQL Database". The left sidebar shows "SQL databases" and a list of databases including "test-db (srisha123/test-db)". The main content area is titled "Create SQL Database" with tabs for Basics, Networking, Security, Additional settings, Tags, and Review + create. The Networking tab is selected. It contains sections for Firewall rules (allowing Azure services and resources to access the server) and Private endpoints (listing existing private endpoints). At the bottom are "Review + create" and "Next : Security >" buttons.

Create SQL Database

Additional settings

Customize additional configuration parameters including collation & sample data.

Data source

Start with a blank database, restore from a backup or select sample data to populate your new database.

Use existing data * None Backup Sample

Database collation

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL_Latin1_General_CI_AS. Learn more [\[?\]](#)

Collation * Find a collation

Maintenance window

Select a preferred maintenance window from the drop down. Please note, during a maintenance event, Azure SQL Database are fully available and accessible but some of the maintenance updates require a failover as Azure takes SQL Database down.

Review + create < Previous Next : Tags >

Microsoft.SQLDatabase.newDatabaseExistingServer_155c16593e594aad | Overview

Deployment

Deployment succeeded 1:50 PM X

Deployment 'Microsoft.SQLDatabase.newDatabaseExistingServer_15...' to resource group 'test' was successful.

Go to resource Pin to dashboard

Overview

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseExistingSe... Start time: 6/23/2021, 1:49:20 PM
Subscription: Azure for Students Correlation ID: 7c008dac-27eb-4552-aa41-fddab3c6e7eb

Deployment details (Download)

Next steps

Go to resource

Security Center

Secure your apps and infrastructure
Go to Azure security center >

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Find an Azure expert >

The screenshot shows the Microsoft Azure portal interface for a SQL database named 'test-db' under the resource group 'test'. The main content area displays the 'Essentials' section with the following key information:

Setting	Value
Resource group (change)	: test
Status	: Paused
Location	: West US 3
Subscription (change)	: Azure for Students
Subscription ID	: db4eee0b-1e34-4be0-9c9c-65cc8d398405
Tags (change)	: Click here to add tags

Below this, there are sections for 'Compute utilization' (a chart showing usage over time) and 'Aggregation type' (set to 'Max'). The left sidebar contains navigation links for Overview, Activity log, Tags, Diagnose and solve problems, Quick start, Query editor (preview), Power Platform (Power BI, Power Apps, Power Automate), Settings (Compute + storage, Connection strings, Properties, Locks), and a search bar.

The screenshot shows the Microsoft Azure portal interface for the 'Query editor (preview)' of the 'test-db' database. The main content area displays the 'Welcome to SQL Database Query Editor' screen, which includes fields for 'Login *' (set to 'srisai') and 'Password *' (redacted). It also features a 'Continue as srisaivenkatasubbarao18@...' button and an 'OK' button. The left sidebar is identical to the one in the previous screenshot, providing navigation for various Azure services and settings.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for WhatsApp, Meet, test-db (srисai123/test-db), AZURE STORAGE ACCOUNTS, and another tab partially visible. The main content area is titled "test-db (srисai123/test-db) | Query editor (preview)". On the left, there's a sidebar with links like Overview, Activity log, Tags, Diagnose and solve problems, Quick start, and Query editor (preview). The main pane has a "Query 1" section with a text input field containing the number "1". Below it are "Results" and "Messages" tabs, and a search bar. The status bar at the bottom shows weather (31°C Partly su...), battery level, and system time (10:45).

This screenshot shows the same Azure portal setup as the first one, but with a completed SQL query and its results. The query in the "Query 1" editor is:

```
1 SELECT TOP 20 pc.Name as CategoryName, p.name as ProductName
2 FROM SalesLT.ProductCategory pc
3 JOIN SalesLT.Product p
4 ON pc.productcategoryId = p.productcategoryId;
```

The "Results" tab is selected, displaying a table with two columns: "CategoryName" and "ProductName". The data returned is:

CategoryName	ProductName
Road Frames	HL Road Frame - Black, 58
Road Frames	HL Road Frame - Red, 58
Helmets	Smart-100 Helmet, Red

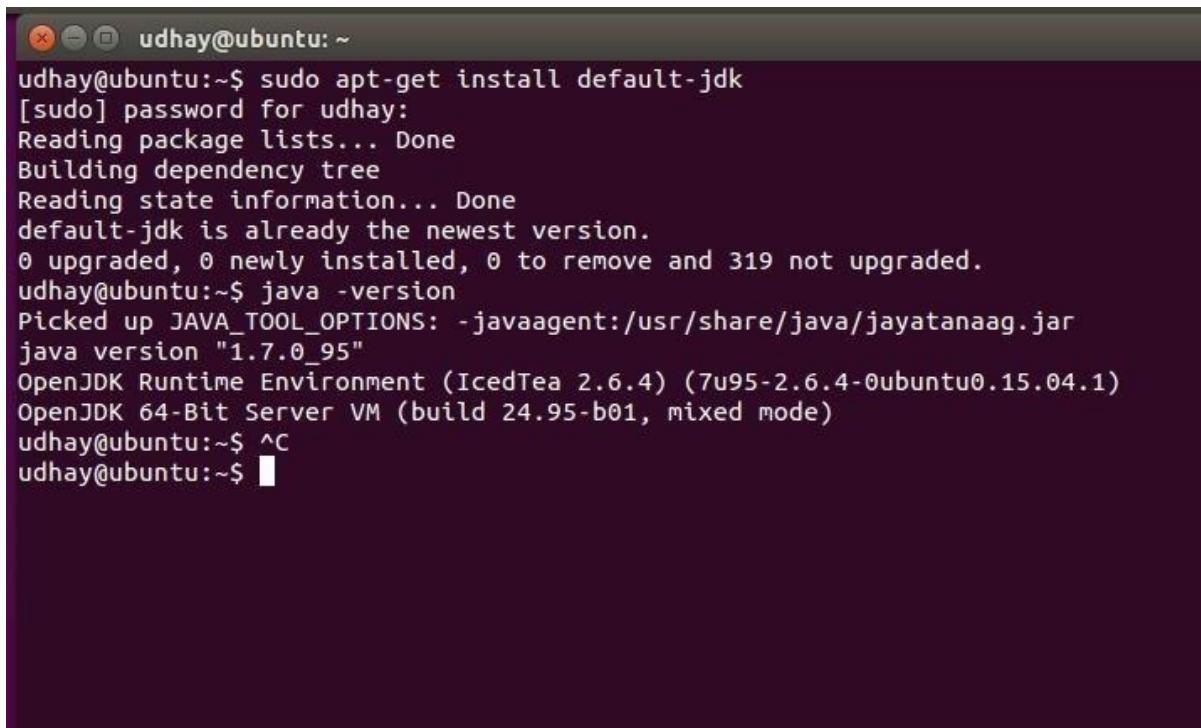
The status bar at the bottom indicates the query succeeded in 0s, with a temperature of 27°C Haze, battery level, and system time (11:02).

**EXP. 22: PERFORM THE BASIC CONFIGURATION SETUP FOR INSTALLINGHADOOP 2.X LIKE
CREATING THE HDUSER AND SSH LOCALHOST**

Date:21-09-2024

AIM: PERFORM THE BASIC CONFIGURATION SETUP FOR INSTALLINGHADOOP 2.X LIKE CREATING THE HDUSER AND SSH LOCALHOST

Screenshots and Outputs:



The screenshot shows a terminal window titled "udhay@ubuntu: ~". The user runs the command "sudo apt-get install default-jdk". The system prompts for a password, which is entered. The package lists are read, dependencies are built, and the state information is updated. It is noted that "default-jdk" is already the newest version. The user then runs "java -version", which outputs the Java version as "1.7.0_95", the OpenJDK Runtime Environment (IcedTea 2.6.4) build number, and the OpenJDK 64-Bit Server VM build number. Finally, the user presses ^C to interrupt the command.

```
udhay@ubuntu:~$ sudo apt-get install default-jdk
[sudo] password for udhay:
Reading package lists... Done
Building dependency tree
Reading state information... Done
default-jdk is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 319 not upgraded.
udhay@ubuntu:~$ java -version
Picked up JAVA_TOOL_OPTIONS: -javaagent:/usr/share/java/jayatanaag.jar
java version "1.7.0_95"
OpenJDK Runtime Environment (IcedTea 2.6.4) (7u95-2.6.4-0ubuntu0.15.04.1)
OpenJDK 64-Bit Server VM (build 24.95-b01, mixed mode)
udhay@ubuntu:~$ ^C
udhay@ubuntu:~$
```

```
udhay@ubuntu:~$ sudo apt-get install ssh
Reading package lists... Done
Building dependency tree
Reading state information... Done
ssh is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 319 not upgraded.
udhay@ubuntu:~$ su hduser
Password:
hduser@ubuntu:/home/udhay$
```

```
udhay@ubuntu:~$ su hduser
Password:
hduser@ubuntu:/home/udhay$ ssh-keygen -t rsa -P ""
Generating public/private rsa key pair.
Enter file in which to save the key (/home/hduser/.ssh/id_rsa):
/home/hduser/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Your identification has been saved in /home/hduser/.ssh/id_rsa.
Your public key has been saved in /home/hduser/.ssh/id_rsa.pub.
The key fingerprint is:
09:0f:15:f2:b2:b7:5e:11:1a:6c:d3:2f:c3:09:02:15 hduser@ubuntu
The key's randomart image is:
+---[RSA 2048]---+
|   ..E.o.      |
|   . = .       |
|   = B o      |
|   O B +      |
|   . S * .    |
|   . . +     |
|   . .        |
|   . .        |
+-----+
hduser@ubuntu:/home/udhay$ cat $HOME/.ssh/id_rsa.pub >> $HOME/.ssh/authorized_keys
hduser@ubuntu:/home/udhay$ ssh localhost
Welcome to Ubuntu 15.04 (GNU/Linux 3.19.0-84-generic x86_64)
```

* Documentation: <https://help.ubuntu.com/>

```
Last login: Thu Jul 15 22:00:14 2021 from localhost
hduser@ubuntu:~$
```

Home ▾ Clone of Ubuntu 64-bit ▾

About the Cluster - Mozilla Firefox

Restore Session About the Cluster Namenode information

localhost:8088/cluster/cluster Search

 **About the Cluster**

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Memory Used	Memory Total	Memory Reserved	VCores Used	VCores Total	VCores Reserved	Active Nodes	Standby Nodes
0	0	0	0	0	0 B	8 GB	0 B	0	8	0	1	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation
Capacity Scheduler	[MEMORY]	<memory:1024, vCores:1>

Cluster ID: 1626414170591
ResourceManager state: STARTED
ResourceManager HA state: active
ResourceManager HA zookeeper connection state: ResourceManager HA is not enabled.
ResourceManager RMStateStore: org.apache.hadoop.yarn.server.resourcemanager.recovery.NullRMStateStore
ResourceManager started on: Thu Jul 15 22:42:50 -0700 2021
ResourceManager version: 2.7.2 from b165c4fe8a74265c792ce23f546c64604acf0e41 by jenkins source checksum 2016-01-26T00:16Z
Hadoop version: 2.7.2 from b165c4fe8a74265c792ce23f546c64604acf0e41 by jenkins source checksum 2016-01-26T00:08Z

Activate Windows

EXP. 23: INSTALL HADOOP 2.X AND CONFIGURE THE NAME NODE AND DATANODE.

Date:21-09-2024

AIM: INSTALL HADOOP 2.X AND CONFIGURE THE NAME NODE AND DATANODE.

Screenshots and Outputs:

```
export JAVA_HOME=/usr/lib/jvm/java-8-oracle
export HADOOP_HOME=/usr/local/hadoop/hadoop-2.7.2
export PATH=$PATH:$HADOOP_HOME/bin
export PATH=$PATH:$HADOOP_HOME/sbin
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export YARN_HOME=$HADOOP_HOME
HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_HOME/lib"
export PATH=$PATH:/usr/local/hadoop/hadoop-2.7.2/bin
```

```
# The java implementation to use.
export JAVA_HOME=/usr/lib/jvm/java-8-oracle
```

```
<configuration>
<property>
<name>dfs.replication</name>
<value>1</value>
</property>
<property>
<name>dfs.namenode.name.dir</name>
<value>file:/usr/local/hadoop_tmp/hdfs/namenode</value>
</property>
<property>
<name>dfs.datanode.data.dir</name>
<value>file:/usr/local/hadoop_tmp/hdfs/datanode</value>
</property>
</configuration>
```

```
<configuration>
<property>
<name>fs.default.name</name>
<value>hdfs://localhost:9000</value>
</property>
</configuration>
```

```
<configuration>
<property>
<name>yarn.nodemanager.aux-services</name>
<value>mapreduce_shuffle</value>
</property>
<property>
```

```
<name>yarn.nodemanager.aux-services.mapreduce.shuffle.class</name>
<value>org.apache.hadoop.mapred.Shuffle-Handler</value>
</property>
</configuration>
```

```
<configuration>
<property>
<name>mapreduce.framework.name</name>
<value>yarn</value>
</property>
</configuration>
```

Clone of Ubuntu 64-bit

GNU nano 2.2.6 File: /home/hduser/.bashrc

```
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

#HADOOP VARIABLES START
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
export HADOOP_INSTALL=/usr/local/hadoop
export PATH=$PATH:$HADOOP_INSTALL/bin
export PATH=$PATH:$HADOOP_INSTALL/sbin
export HADOOP_MAPRED_HOME=$HADOOP_INSTALL
export HADOOP_COMMON_HOME=$HADOOP_INSTALL
export HADOOP_HDFS_HOME=$HADOOP_INSTALL
export YARN_HOME=$HADOOP_INSTALL
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_INSTALL/lib/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_INSTALL/lib"
#HADOOP VARIABLES END
```

```
hduser@ubuntu:/home$ cd ..
hduser@ubuntu:$ cd usr
hduser@ubuntu:/usr$ cd local
hduser@ubuntu:/usr/local$ cd hadoop
hduser@ubuntu:/usr/local/hadoop$ cd etc
hduser@ubuntu:/usr/local/hadoop/etc$ cd hadoop
hduser@ubuntu:/usr/local/hadoop/etc/hadoop$ ls
capacity-scheduler.xml      httpfs-env.sh          mapred-env.sh
configuration.xsl           httpfs-log4j.properties  mapred-queues.xml.template
container-executor.cfg       httpfs-signature.secret mapred-site.xml
core-site.xml                httpfs-site.xml        mapred-site.xml.template
hadoop-env.cmd               kms-acls.xml         slaves
hadoop-env.sh                kms-env.sh          ssl-client.xml.example
hadoop-metrics2.properties   kms-log4j.properties  ssl-server.xml.example
hadoop-metrics.properties    kms-site.xml         yarn-env.cmd
hadoop-policy.xml            log4j.properties     yarn-env.sh
hdfs-site.xml                mapred-env.cmd       yarn-site.xml
hduser@ubuntu:/usr/local/hadoop/etc/hadoop$
```

```
hduser@ubuntu: /usr/local/hadoop/etc/hadoop
GNU nano 2.2.6          File: hadoop-env.sh

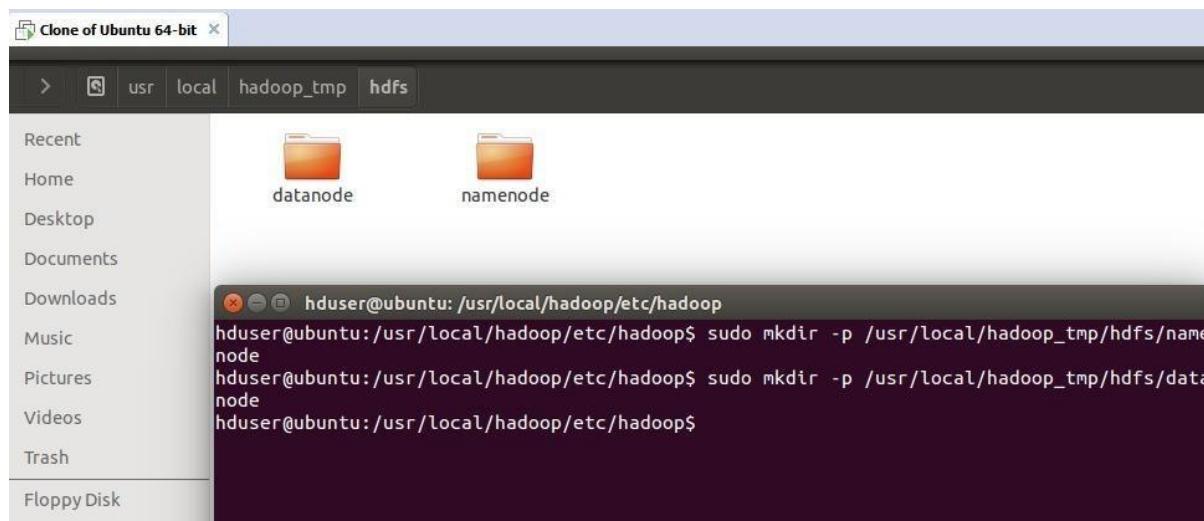
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.

# Set Hadoop-specific environment variables here.

# The only required environment variable is JAVA_HOME. All others are
# optional. When running a distributed configuration it is best to
# set JAVA_HOME in this file, so that it is correctly defined on
# remote nodes.

# The java implementation to use.
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
export JAVA_HOME=${JAVA_HOME}

# The jsvc implementation to use. Jsvc is required to run secure datanodes
# that bind to privileged ports to provide authentication of data transfer
# protocol. Jsvc is not required if SASL is configured for authentication of
# data transfer protocol using non-privileged ports.
```



EXP. 24: LAUNCH THE HADOOP 2.X AND PERFORM MAPREDUCE PROGRAMFOR A WORD COUNT PROBLEM

Date:23-09-2024

AIM: LAUNCH THE HADOOP 2.X AND PERFORM MAPREDUCE PROGRAMFOR A WORD COUNT PROBLEM

Screenshots and Outputs:

```
import org.apache.hadoop.conf.Configured;
import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.mapred.FileInputFormat;
import org.apache.hadoop.mapred.FileOutputFormat;import
org.apache.hadoop.mapred.JobClient;
import org.apache.hadoop.mapred.JobConf;

import org.apache.hadoop.util.Tool;
import org.apache.hadoop.util.ToolRunner;
import org.apache.hadoop.io.Text;

public class WordCount extends Configured implements Tool {@Override
    public int run(String[] arg0) throws Exception {
        // TODO Auto-generated method
        stubif(arg0.length<2)
    }
}
```

```
    }  
}
```

```
import java.io.IOException;  
  
import org.apache.hadoop.io.IntWritable;  
import org.apache.hadoop.io.LongWritable;  
  
import  
org.apache.hadoop.mapred.MapReduceBase;  
import  
org.apache.hadoop.mapred.OutputCollector;  
import org.apache.hadoop.mapred.Reporter;  
  
import org.apache.hadoop.io.Text;  
  
import org.apache.hadoop.mapred.Mapper;  
  
public class WordCountMapper extends MapReduceBase implements  
Mapper<LongWritable,Text,Text,IntWritable>  
{  
    @Override  
    public void map(LongWritable arg0, Text arg1, OutputCollector<Text, IntWritable> arg2,  
    Reporter arg3)
```

```
import java.io.IOException;import  
java.util.Iterator;  
  
import org.apache.hadoop.io.IntWritable;  
import org.apache.hadoop.mapred.JobConf;  
  
import org.apache.hadoop.mapred.OutputCollector;  
import org.apache.hadoop.mapred.Reducer;  
  
import org.apache.hadoop.mapred.Reporter;  
import org.apache.hadoop.io.Text;  
  
public class WordCountReducer implements Reducer<Text,IntWritable,Text,IntWritable> {  
    @Override  
    public void configure(JobConf arg0) {
```

```

}

@Override

    public void reduce(Text arg0, Iterator<IntWritable> arg1, OutputCollector<Text, IntWritable>
arg2, Reporter arg3)

        throws IOException {

    // TODO Auto-generated method
    stubint count=0;

    while(arg1.hasNext())

    {

        IntWritable i=arg1.next();
        count+=i.get();
    }
}

```

Browsing HDFS - Mozilla Firefox

Browsing HDFS

localhost:50070/explorer.html#/

Name	Size	Last Modified	Replication	Owner	Group	Permissions
cloud	0 B	8/12/2016, 12:20:50 AM	0	hduser	supergroup	drwxr-xr-x
cse	0 B	8/11/2016, 1:47:41 AM	0	hduser	supergroup	drwxr-xr-x
folder	0 B	8/4/2016, 11:37:37 PM	0	hduser	supergroup	drwxr-xr-x
grid	0 B	8/11/2016, 9:52:15 PM	0	hduser	supergroup	drwxr-xr-x
output	0 B	8/11/2016, 9:54:38 PM	0	hduser	supergroup	drwxr-xr-x
project	0 B	8/11/2016, 11:54:23 PM	0	hduser	supergroup	drwxr-xr-x
tmp	0 B	8/4/2016, 11:40:37 PM	0	hduser	supergroup	drwx-----

```
hadoop1@ubuntu-1:~/project$ hadoop fs -cat /output/wordcount4/part-r-00000
.
a 1
and 1
as 1
count 1
counts 1
file 2
for 1
input 1
is 1
job 1
job. 1
map 1
returns 1
sample 1
takes 1
```

Browsing HDFS - Mozilla Firefox

Browsing HDFS

localhost:50070/explorer.html#/output

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

Browse Directory

/output Go!

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	hduser	supergroup	0 B	8/11/2016, 9:54:38 PM	1	128 MB	_SUCCESS
-rw-r--r--	hduser	supergroup	44 B	8/11/2016, 9:54:38 PM	1	128 MB	part-00000