

EXP NO 1: CREATE A SIMPLE CLOUD SOFTWARE APPLICATION AND PROVIDE IT AS A SERVICE USING ANY CLOUD SERVICE PROVIDER TODEMONSTRATE SOFTWARE AS A SERVICE (SAAS).

THE SOFTWARE HASE BEEN CREATED.

The screenshot displays a web application titled "Booking Movie Ticket". On the left, a sidebar menu includes "User Details" (selected) and "All User Details". The main area shows a "user details" form with fields for Name (First Name, Last Name), Phone (+91 83234 56789), Email, Date-Time (dd-MM-yyyy HH:mm:ss), Theatres (First Name, Last Name), and a Drop Down menu. At the bottom of the form are "Submit" and "Reset" buttons. On the right, a "Form Customization - Web" panel is visible, showing "Label placement" options with various input field layouts.

The screenshot displays the same web application, but with the "Field Properties" panel open on the right. The "Basic Fields" panel on the left shows icons for Name, Email, Address, Phone, Single Line, Multi Line, Number, Date, Time, and Drop Down. The "Field Properties" panel for the "Name" field includes: "Field name" (Name), "Field link name" (Name), "Validation" (Mandatory checkbox), "Display Fields" (Prefix, First Name, Last Name, Suffix checkboxes), and "Data Privacy". The main form area shows the "Name" field selected, with "Phone", "Email", "Date-Time", "Theatres", and "Drop Down" fields below it.

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

THE SOFTWARE HAS BEEN CREATED.

The screenshot displays a web application titled "Booking Movie Ticket". On the left, a sidebar menu includes "User Details" (selected) and "All User Details". The main area is titled "user details" and contains a form with the following fields: "Name" (split into "First Name" and "Last Name"), "Phone" (with a country code dropdown set to "+91" and a value "83234 56789"), "Email", "Date-Time" (with a date and time picker), "Theatres" (split into "First Name" and "Last Name"), and a "Drop Down" menu. At the bottom of the form are "Submit" and "Reset" buttons. On the right, a "Form Customization - Web" panel shows "Label placement" options with various input field layouts.

The screenshot shows the "Form Customization" interface for the "user details" form. On the left, a "Basic Fields" panel lists available field types: Name, Email, Address, Phone, Single Line, Multi Line, Number, Date, Time, and Drop Down. The central area displays the current form structure with fields: Name, Phone, Email, Date-Time, Theatres, and Drop Down. On the right, the "Field Properties" panel for the selected "Name" field includes: "Field name" (Name), "Field link name" (Name), "Validation" (Mandatory checkbox), "Display Fields" (Prefix, First Name, Last Name, Suffix checkboxes), and "Data Privacy". A "Done" button is located in the top right corner.

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.

THE SOFTWARE HASE BEEN CREATED.

The screenshot displays a web application interface for 'Booking Movie Ticket'. On the left, a dark sidebar contains a menu with 'User Details' selected. The main area shows a 'user details' form with fields for Name (First Name, Last Name), Phone (+91 83234 56789), Email, Date-Time (dd-MM-yyyy HH:mm:ss), Theatres (First Name, Last Name), and a Drop Down menu. At the bottom of the form are 'Submit' and 'Reset' buttons. On the right, a 'Form Customization - Web' panel is visible, showing 'Label placement' options with various input field layouts.

The screenshot displays a web application interface for 'Booking Movie Ticket' in a design tool. The main area shows a 'user details' form with fields for Name, Phone, Email, Date-Time, Theatres, and a Drop Down menu. On the left, a 'Basic Fields' panel lists various input types: Name, Email, Address, Phone, Single Line, Multi Line, Number, Date, Time, and Drop Down. On the right, a 'Field Properties' panel is visible, showing 'Field name' (Name), 'Field link name' (Name), 'Validation' (Mandatory checkbox), 'Display Fields' (Prefix, First Name, Last Name, Suffix checkboxes), and 'Data Privacy'.

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

THE SOFTWARE HASE BEEN CREATED.

The screenshot displays a web application interface for 'Booking Movie Ticket'. On the left, a dark sidebar contains a menu with 'User Details' selected. The main area shows a 'user details' form with fields for Name (First Name, Last Name), Phone (+91 83234 56789), Email, Date-Time (dd-MM-yyyy HH:mm:ss), Theatres (First Name, Last Name), and a Drop Down menu. At the bottom of the form are 'Submit' and 'Reset' buttons. On the right, a 'Form Customization - Web' panel is visible, showing 'Label placement' options with various input field layouts.

The screenshot displays a web application interface for 'Booking Movie Ticket' with a 'user details' form. The left sidebar shows 'Basic Fields' with icons for Name, Email, Address, Phone, Single Line, Multi Line, Number, Date, Time, and Drop Down. The main area shows the 'user details' form with fields for Name, Phone, Email, Date-Time, Theatres, and Drop Down. On the right, a 'Field Properties' panel is visible, showing 'Field name' (Name), 'Field link name' (Name), 'Validation' (Mandatory checkbox), 'Display Fields' (Prefix, First Name, Last Name, Suffix checkboxes), and 'Data Privacy'.

EXP NO 5: CREATE A SIMPLE CLOUD SOFTWARE APPLICATION FOR LIBRARY BOOK RESERVATION SYSTEM FOR SIMAT'S LIBRARY USING ANY CLOUD SERVICE PROVIDER TO DEMONSTRATE SAAS.

THE SOFTWARE HAS BEEN CREATED.

The screenshot displays a web application interface for 'Booking Movie Ticket'. On the left, a dark sidebar contains a menu with 'User Details' selected. The main area shows a 'user details' form with fields for Name (First Name, Last Name), Phone (+91 83234 56789), Email, Date-Time (dd-MM-yyyy HH:mm:ss), Theatres (First Name, Last Name), and a Drop Down menu. At the bottom are 'Submit' and 'Reset' buttons. On the right, a 'Form Customization - Web' panel shows 'Label placement' options with various input field layouts.

The screenshot shows the 'Basic Fields' configuration screen. On the left, a 'Basic Fields' panel lists icons for Name, Email, Address, Phone, Single Line, Multi Line, Number, Date, Time, and Drop Down. The central area displays a list of fields: Name, Phone, Email, Date-Time, Theatres, and Drop Down. On the right, a 'Field Properties' panel for the 'Name' field shows 'Field name' as 'Name', 'Field link name' as 'Name', 'Validation' as 'Mandatory', and 'Display Fields' with 'First Name' and 'Last Name' checked. A 'Data Privacy' section is also visible at the bottom.

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

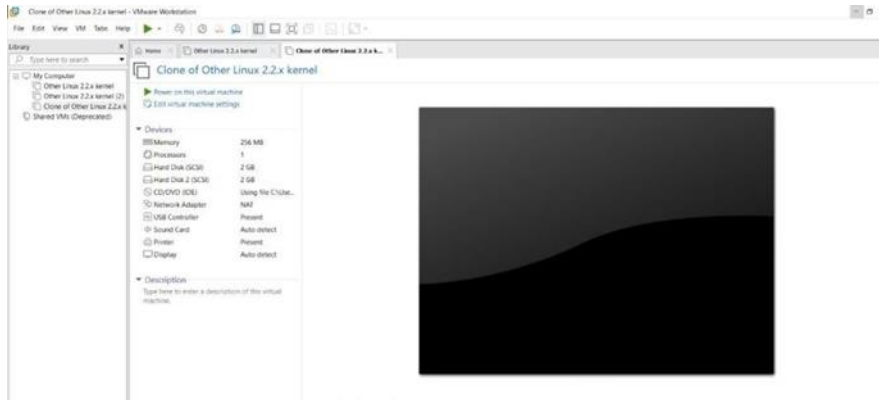
THE SOFTWARE HAS BEEN CREATED.

The screenshot displays a web application titled "Booking Movie Ticket". On the left, a sidebar menu contains "User Details" (selected) and "All User Details". The main area shows a "user details" form with fields for Name (First Name, Last Name), Phone (+91 91234 56789), Email, Date-Time (dd-MM-yyyy HH:mm:ss), Theatres (First Name, Last Name), and a Drop Down menu. At the bottom of the form are "Submit" and "Reset" buttons. On the right, a "Form Customization - Web" sidebar shows "Label placement" options with various input field layouts.

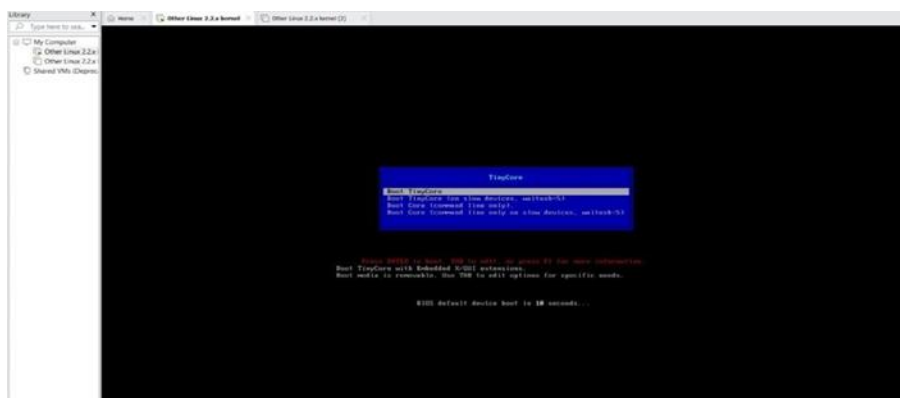
The screenshot displays a web application titled "Booking Movie Ticket" with a "user details" form. On the left, a "Basic Fields" sidebar lists various input types: Name, Email, Address, Phone, Single Line, Multi Line, Number, Date, Time, and Drop Down. The main area shows the "user details" form with fields for Name, Phone, Email, Date-Time, Theatres, and a Drop Down menu. At the bottom of the form are "Submit" and "Reset" buttons. On the right, a "Field Properties" sidebar shows configuration options for the selected "Name" field, including "Field name", "Field link name", "Validation" (Mandatory), "Display Fields" (Prefix, First Name, Last Name, Suffix), and "Data Privacy".

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).

CREATED TINYOS VIRTUAL MACHINE

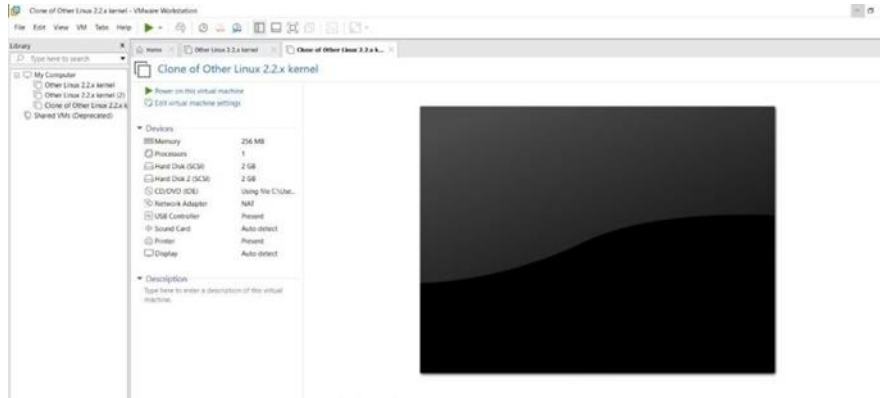


LAUNCH THE VM



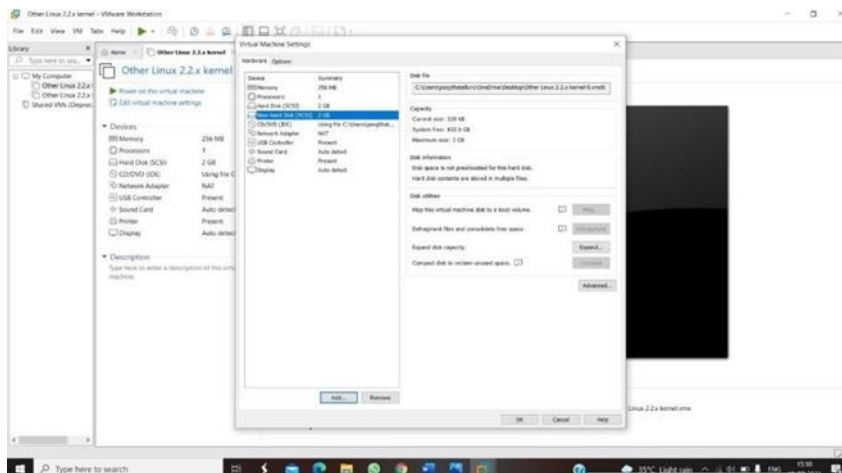
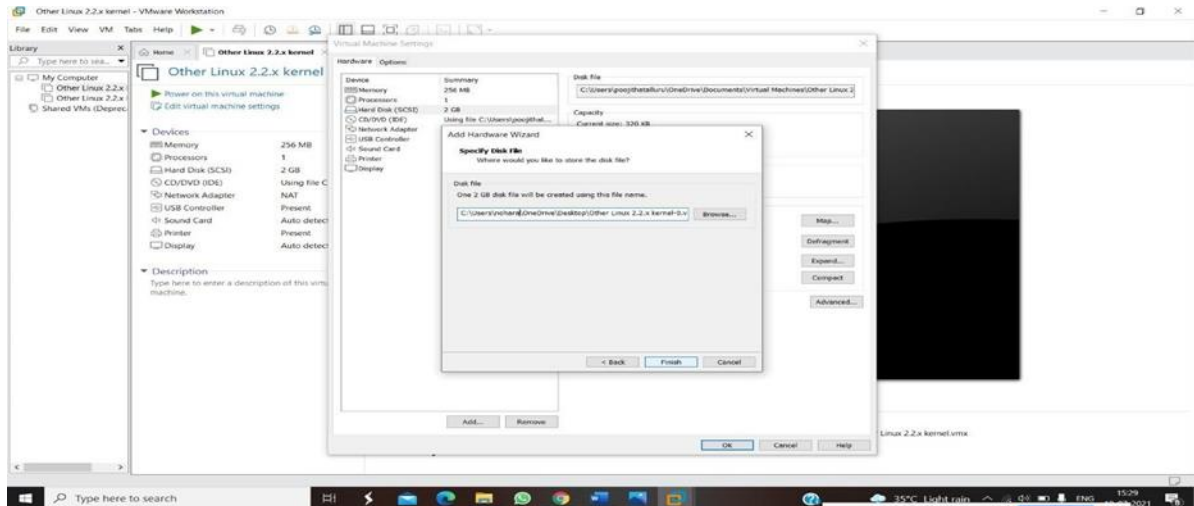
EXPNO 8: CREATE A VIRTUAL MACHINE WITH 1 CPU, 2GB RAM AND 15GB STORAGE DISK USING A TYPE 2 VIRTUALIZATION SOFTWARE.

CREATED TINYOS VIRTUAL MACHINE



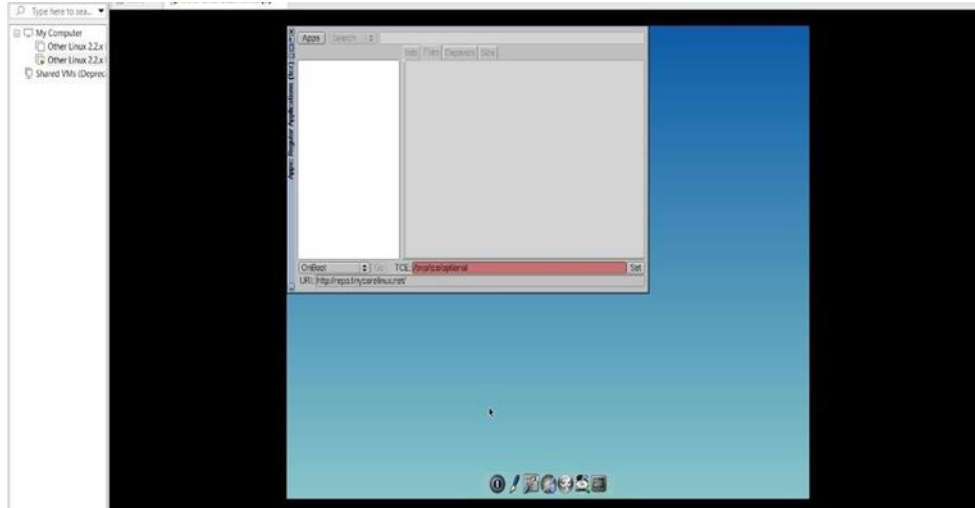
EXP 9: CREATE A VIRTUAL HARD DISK AND ALLOCATE THE STORAGE USING VM WARE WORKSTATION.

GIVE NAME AND CLICK THE FINISH



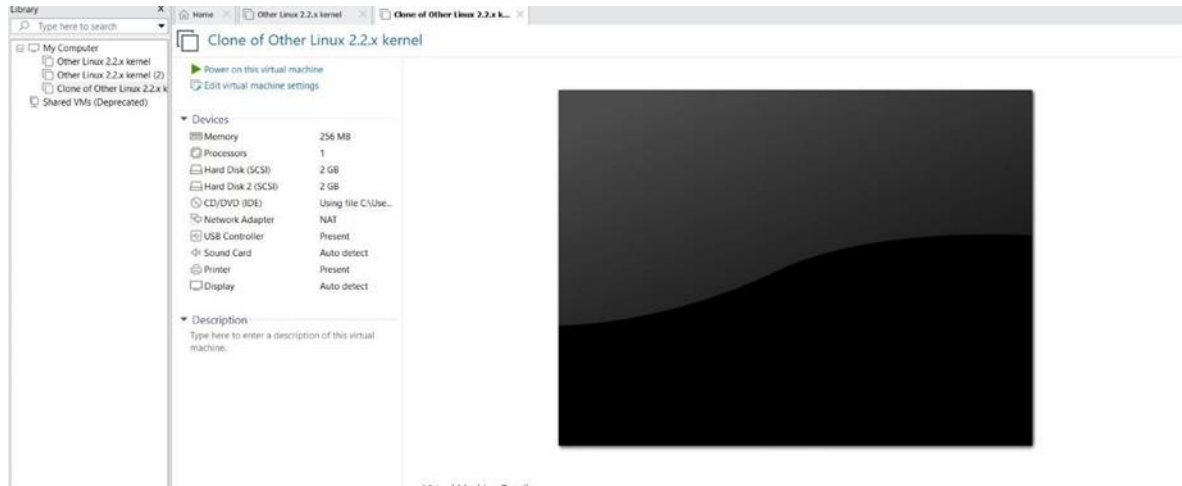
EXPNO 10: CREATE A SNAPSHOT OF A VM AND TEST IT BY LOADING THE PREVIOUS VERSION/CLONED VM

SNAPSHOT IS BEING DONE



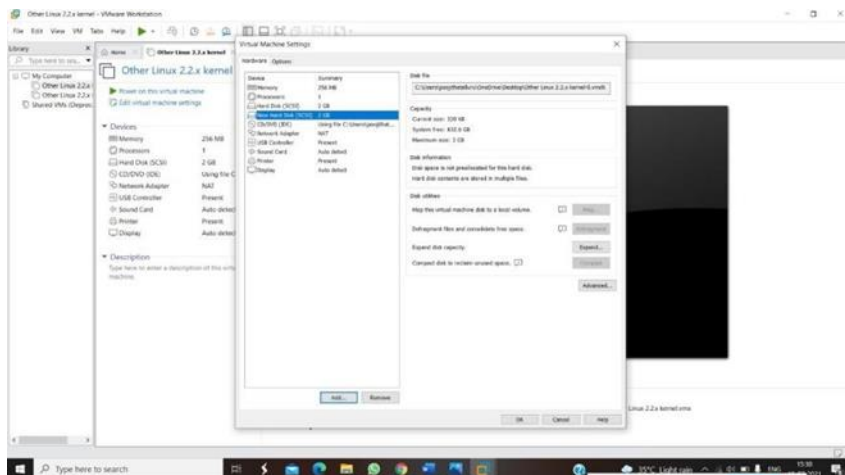
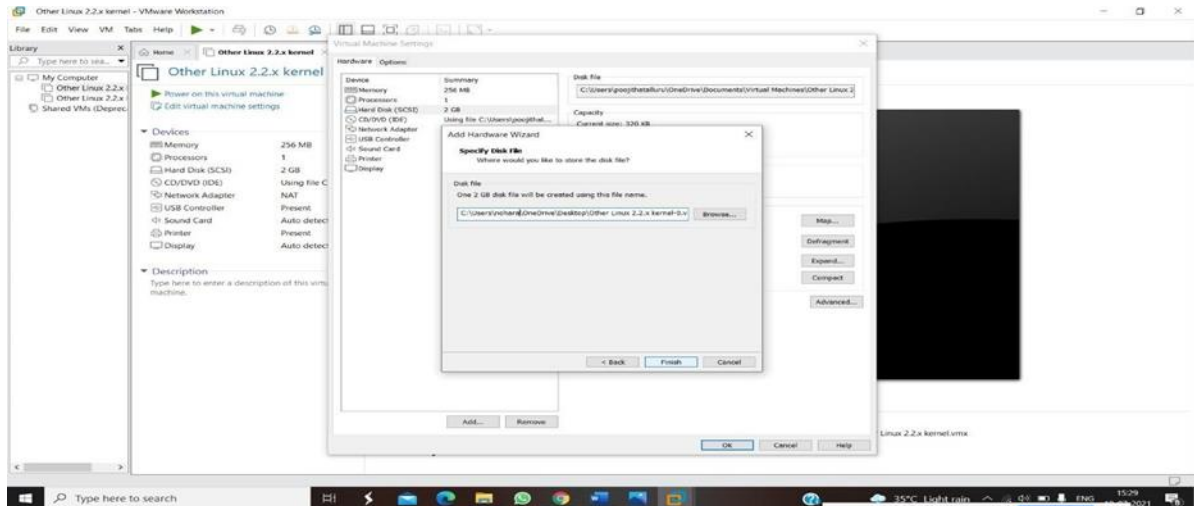
EXPNO 11: CREATE A CLONING OF A VM AND TEST IT BY LOADING THE PREVIOUS VERSION/CLONED VM.

AFTER CLONE AGAIN OR VM IS OPENED



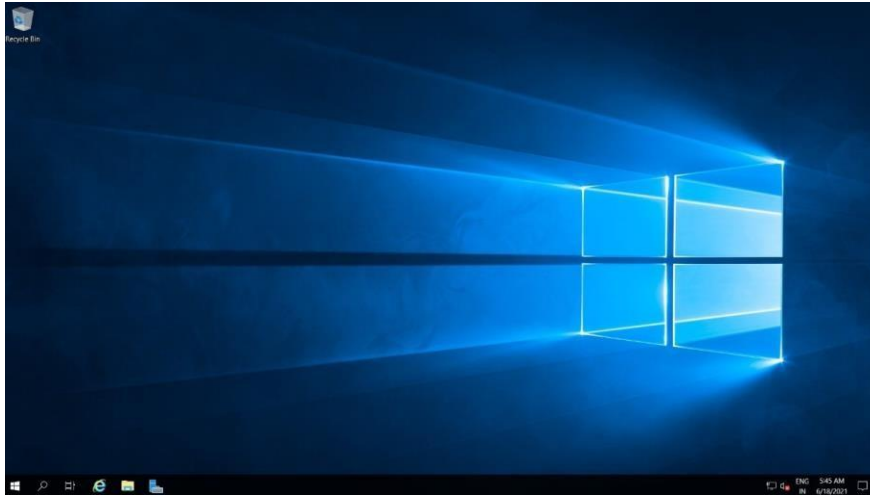
EXP 12: CHANGE HARDWARE COMPATIBILITY OF A VM (EITHER BY CLONE/CREATE NEW ONE) WHICH IS ALREADY CREATED AND CONFIGURED.

GIVE NAME AND CLICK THE FINISH



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.

CREATED A NEW WINDOWS VIRTUAL MACHINE.



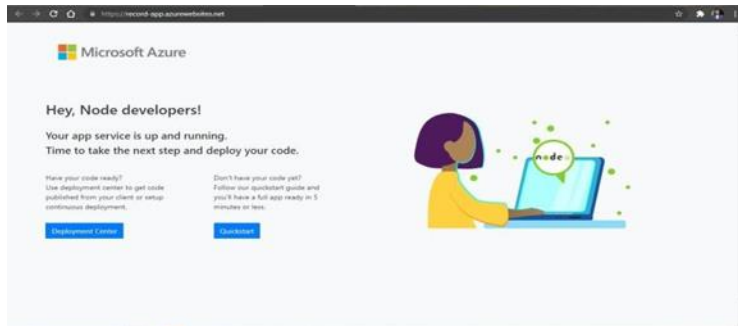
EXP 17. DEMONSTRATE INFRASTRUCTURE AS A SERVICE(IAAS) BY CREATING A VIRTUAL MACHINE USING A PUBLIC CLOUD SERVICE PROVIDER(AZURE/GCP/AWS) CONFIGURE WITH MINIMUM CPU, RAM AND STORAGE AND LAUNCH THE VM IMAGE.

CREATED A NEW WINDOWS VIRTUAL MACHINE.



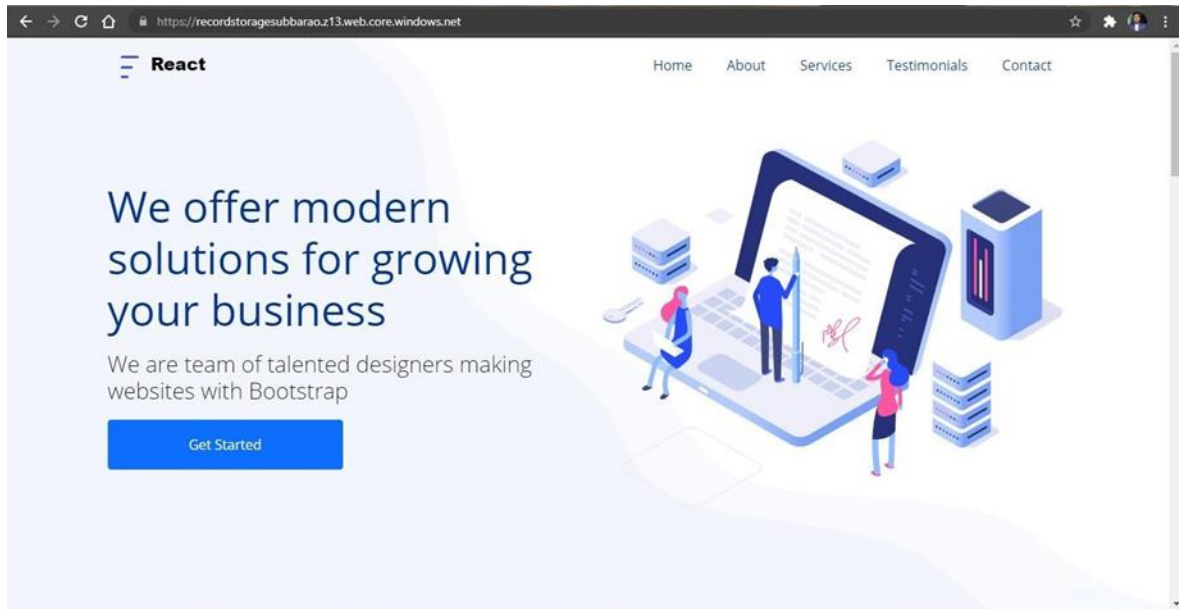
EXP15.CREATE A SIMPLE WEB SITE USING ANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) AND CHECK THE PUBLIC ACCESSIBILITY OFTHE STORED FILE TO DEMONSTRATE STORAGE AS A SERVICE

THIS IS OUR WEBAPP SERVICE.



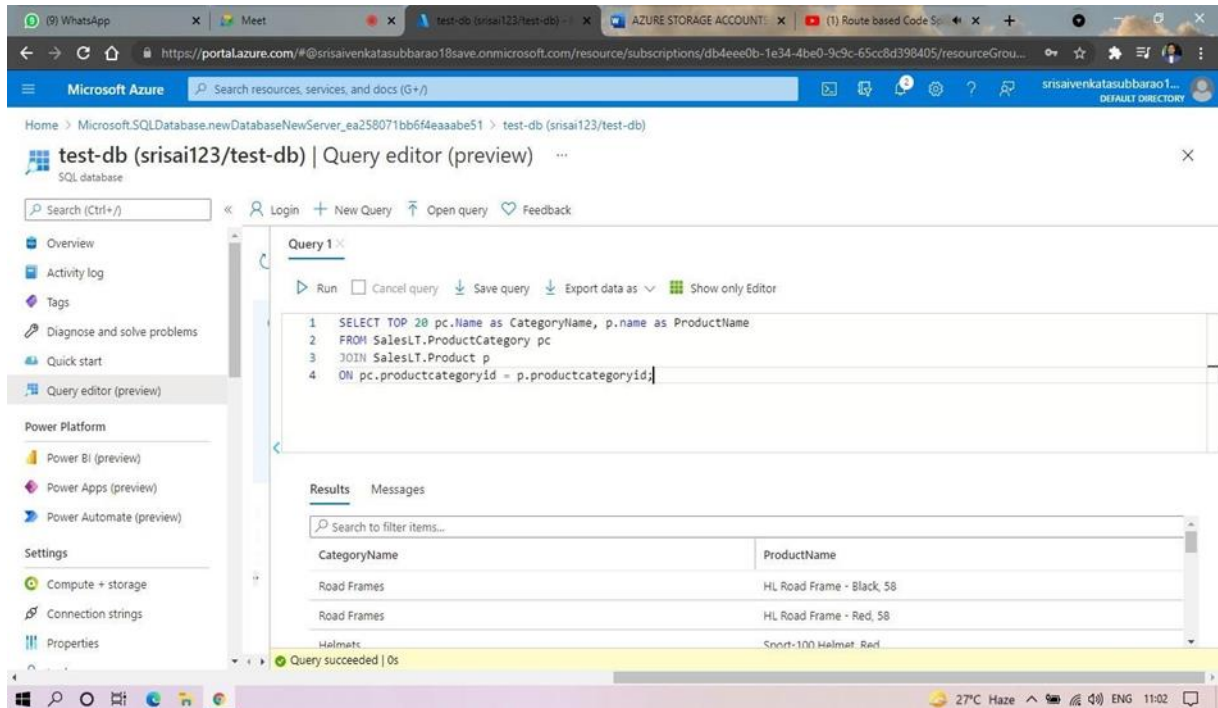
EXP19.CREATE A STORAGE SERVICE USING ANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) AND CHECK THE PUBLIC ACCESSIBILITY OFTHE STORED FILE TO DEMONSTRATE STORAGE AS A SERVICE.

AND AGAIN, RETURN TO STATIC WEBSITE AND OPEN THE PRIMARYLINK AND YOUR WEB PAGE IS CREATED



EXP20.CREATE A SQL STORAGE SERVICE AND PERFORM A BASIC QUERY USINGANY PUBLIC CLOUD SERVICE PROVIDER (AZURE/GCP/AWS) TO DEMONSTRATE DATABASE AS A SERVICE (DAAS)

AND OUR OUTPUT IS READY.



The screenshot displays the Microsoft Azure portal interface. The browser address bar shows the URL: <https://portal.azure.com/#@srisaivenkatasubbarao18save.onmicrosoft.com/resource/subscriptions/db4eee0b-1e34-4be0-9c9c-65cc8d398405/resourceGroup...>. The page title is "test-db (srisai123/test-db) | Query editor (preview)". The left sidebar contains navigation options: Overview, Activity log, Tags, Diagnose and solve problems, Quick start, Query editor (preview), Power Platform (Power BI (preview), Power Apps (preview), Power Automate (preview)), Settings (Compute + storage, Connection strings, Properties), and a status bar at the bottom indicating "Query succeeded | 0s".

The main content area shows the "Query 1" editor with the following SQL query:

```
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;
```

Below the query editor, the "Results" tab is active, displaying a table with the following data:

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

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

OUTPUT:

Home x Clone of Ubuntu 64-bit x

About the Cluster - Mozilla Firefox

Restore Session x About the Cluster x Namenode information x +

localhost:8088/cluster/cluster

hadoop

About the Cluster

Cluster

- About
- Nodes
- Node Labels
- Applications
- NEW
- NEW SAVING
- SUBMITTED
- ACCEPTED
- RUNNING
- FINISHED
- FAILED
- KILLED
- Scheduler

Tools

Cluster Metrics

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

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

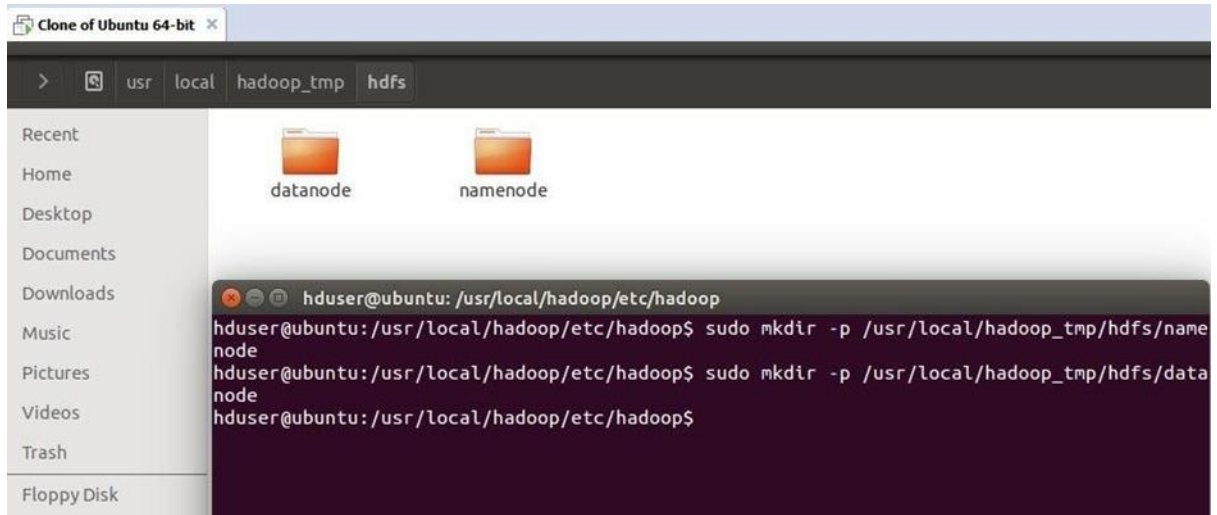
ResourceManager version: 2.7.2 from b165c4fe8a74265c792ce23f546c64604acf0e41 by jenkins source checksun 2016-01-26T00:16Z

Hadoop version: 2.7.2 from b165c4fe8a74265c792ce23f546c64604acf0e41 by jenkins source checksun 2016-01-26T00:08Z

Activate Windows

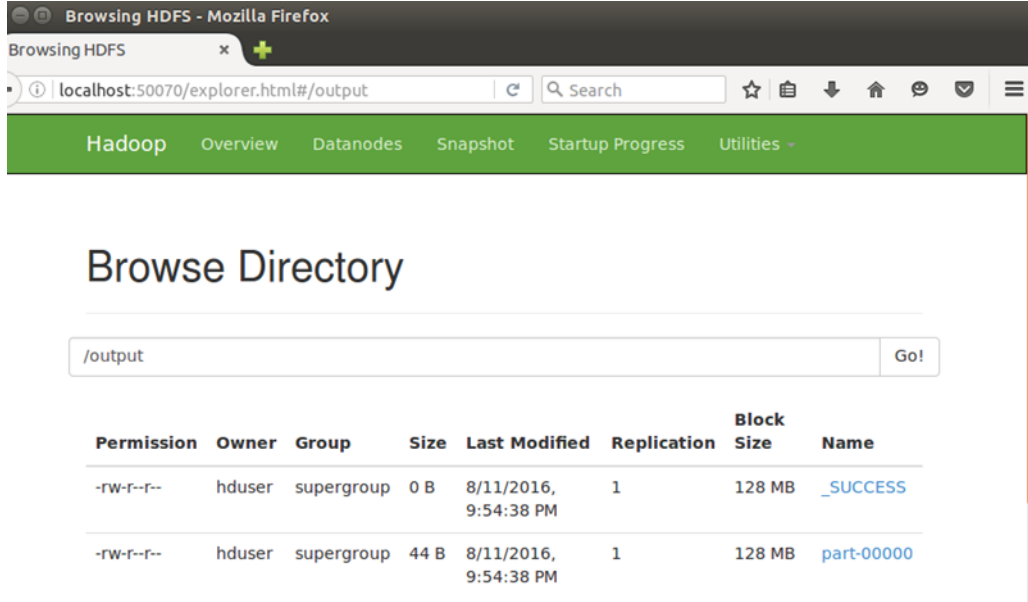
EXP. 23: INSTALL HADOOP 2.X AND CONFIGURE THE NAME NODE AND DATANODE

OUTPUT:



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

OUTPUT:



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