

16/08

Passport Application

1. Aim: Create a webapp for passport application system.

Procedure:

- ⇒ open the Zoho
- ⇒ Signup which is already present on site
- ⇒ next you should give password and mail
- ⇒ now we get complete login
- ⇒ ~~you~~ have to choose the creator option
- ⇒ it will ask the name given for app
- ⇒ Based on application choose name
- ⇒ fill the details which are given on the template
- ⇒ fill the details which are given on the template for application
- ⇒ after filling click "done"
- ⇒ give input & check the input whether selected or not.

Result: The Webapp is created and then verified by checking with the given inputs

Output:

Name:

Email:

Phno:

Address:

Date of birth:

Address:

10/16

Cab Booking

Aim: Create a web app for cab booking system

Procedure:

- Open the zoho.com
- Log In to zoho
- By using complete login details
- By click the creator we can give name
- Fill the details for the information needed for template
- Fill the information related to your cab booking system
- Click the "done"
- Check whether the details are done or not
- after filling done with options.

Result: The webapp for cab booking System is created & the verified/successfully

Output

Name:	<input type="text"/>	<input type="text"/>
Phone:	<input type="text"/>	
Address:	<input type="text"/>	
Start date:	<input type="text"/>	
Time:	<input type="text"/>	
Book now:	<input type="checkbox"/>	

16/8
3. Aim: create a web app for employee payroll system.

Procedure:

- open the Zoho app
- It asks for Authentication
- If shows different applications like creator, app, etc
- click "creator"
- Then it asks choose Template
- choose template based on your need.
- choose template of your application.
- otherwise choose by our own option.
- They are: • Name
 - Id, email, phno etc
- fix the details & click done option
- Next give the Input According to your app & choose output with input

Result: The webapp for employee payroll system is created & then verified successfully.

Output:

Name:	<input type="text"/>	<input type="text"/>	Basicpay	<input type="text"/>
email:	<input type="text"/>		DA	<input type="text"/>
Address:	<input type="text"/>		CCA	<input type="text"/>
Basic pay:	<input type="text"/>		TAX	<input type="text"/>
Salary:	<input type="text"/>			

16/08

Student Information

Aim: Create a web application for student information system. 16/08

Procedure:

- Open the zoho. com
- Log in to zoho & give IPkE email
- Now it provides options to choose
- have creator as the option which we can access our data.
- Next It uses template based on your application details that are given on template
- after filling details click done ~~& Details~~
- given inputs according to you are app & check with input whether it is selected or not.

Result: The web app for student information system is created & verified.

Output:

Name:

Registration Number:

Year of admission:

Sub-form

Subject name	Percent
--------------	---------

+ Add new

10/08

Hotel reservation

5. Aim: Create a App for Hotel reservation system.

Procedure:

- open zoho app
- It asks permission
- Enter mail & password. It shows creator click on it.
- go to new collection where we have to create
- choose the template which is suitable for your APP
- In template shows options which we have to fill

Attributes: → Hotel name

→ cust name, phno, email

→ date, leaving date

- few details & click "done"
- next give inputs according to your application & check out the working.

Result: The webapp for Hotel reservation system is verified - output

Name:

Mobileno:

Checkin:

No. of rooms

17/08

Vmware Application

6. Aim: Create the Vmware application with name.

Procedure:

PratikStation?

- At first we should create Vm ware workstation.
 - Then open it Show options.
 - Click on "Home"
 - directly show the options on screen
- Create a new virtual machine → Open Vm → Connect Server
 - Click on create new
 - It asks chose the Virtual machine
 - It shows Guest operation system Installation
Click next
 - To select the operation
 - Microsoft
 - Linux
 - Vmware
 - Other
 - then allocate memory choose network
 - Type & select disk type
 - Vm will be created with following procedure.

17/08 Create a Virtual
Virtual machine using Vmware
7. Aim: To create a VM using Vmware
workstation with 1CPU, 2GB ram and 15
GB storage and can run.

Procedure:

- Install the Virtualization software
 - It has Virtualisation as type 2.
 - download an OS image file.
 - Start Vmware
 - Configure the hardware setting
 - Install Vm and launch
- Explanation:
- VM
 - VMM
 - Virtualisation
 - Types of Virtualisation

Outcome: The VM using Ubuntu image
has been configured and installed in a
type 2 Hypervisor using Vm workstation.

Output:

Devices	
Memory	2GB
Processor	1
Harddisk	15GB
CD/DVD	AUTO
Network	NAT
USB controller	Present
Display	Auto

17/08

8.

Memory Upgradation
Aim: To create a virtual hard disc
for the given virtual machine and allow
around 10GB storage from HDD

Procedure:

- firstly launch the vm ware
- under customize hardware → add storage
- select appropriate storage type
- finish configuration
- check to see if the hard disk is added on vm

Outcome: An virtual harddisk has been added inside the vm machine.

Output:

► Devices

Memory

10GB

Processor

2GB

Harddisk

50GB

CD/DVD

Using file C:\Program
Files(x86)VMware

Network

NAT

USB controller

Present

Sound card

Auto

Display

Auto

17/08

Snapshot Creation

Aim: To create a snapshot & test to see if the deleted content are restored after reloading.

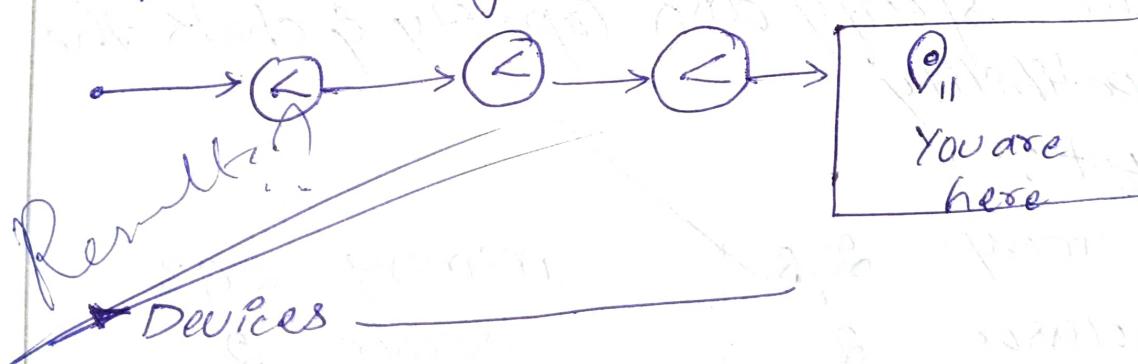
Procedure:

- Create a snapshot of the VM
- Deleted few files and restore the snapshot by launching the snap version of VM
- Shutdown the VM & create a clone of VM under manage VM.
- Open the VMX file from the cloud location of VM & test the cloned version.

Outcome: The Snapshot & clone of the VM has been implemented & tested.

Output:

Snapshot manager:



Memory
Processor
Harddisk
Network
Sound card

2GB
2
60GB
Present
Auto

10. Aim: To create a cloning of VM and test it by loading the previous version (cloned VM).

Procedure:

- Go to VM ware workstation
- Create a Virtual machine with 2GB Ram
- Create a Virtual machine with 4GB
- The cloning of VM

Explanation:

- After Increasing the VM Worstation For installing this we need to check which OS is suitable
- Then select the option as VM ware work
- After installing VM ware → open create new virtual machine
- Then click above option as per your requirement
- Select specify disk capacity & check the compatibility

Output:

Memory	2GB
Processor	2
Hard disk	20GB
CD/DVD	Auto
Network	NAT
User controller	Present

Memory	2GB
Processor	2
Hard disk	20GB
CD/DVD	Auto
Network	NAT
USB controller	Present

Result: Virtual machine P8 created and also verified by giving outputs.

11. Aim: To change the hardware compatibility of a VM either by clone/ create a new Virtual machine.

Procedure:

- Go to VM ware Workstation
- Right click the VM
- Add hardware at a select SCSI controller next
- Click now virtual disk
- Give the name & finish → Automatic
- Maximum size has to be chosen
- Click next then finish
- Change the no. of processor
- Hardware compatibility is changed.
- Select the Specify disk capacity & compare

Output

memory	2GB
Processor	2
Harddisk	20GB
CD/DVD	Auto
Network Adapter	NAT
USB Controller	Present
Sound control	Auto detect

✓ memory	2GB
Processor	3
Harddisk	40GB
CD/DVD	Auto
Network adapter	NAT
USB Controller	Present
Sound control	Auto detect

12.

Aims - To demonstrate Infrastructure as a Service by creating a resource group by using public cloud service providers.

Procedure:

- * Create an account on Azure
- * Go to Resources & create a group
- * Give necessary info & create a VM with your IP and Username & Password.
- * Now Reconfigure the Virtual machine
- * Create a new windows Virtual machine

Explanation:

- For installing this we need to check which OS is suitable
- Select the option as VM ware workstation.
- After clicking all the required options click finishing & create VM.

Output:

Hithesh
Virtual machine

Connect Start Stop Restart Delete
Properties

Computer name	Hithesh
OS	Linux
VM generation	2
Host group	none
Host	-

Size - Standard
VCPUs 2
RAM 8 GiB

13.

Aims: To create Infrastructure as a Service by creating a virtual machine using a public cloud service provider.

Procedure:

- Go to [microsoft azure.com](https://microsoftazure.com)
- Create a new account on Microsoft
- Go to Basic group & Create Resource
- Create a Virtual network to create a VM machine
- Now create a Virtual machine with IP & Username & Password.
- And your Virtual machine is developed
- Now connect the Virtual machine & password for Virtual machine & download file to open new window VM

Output

Hithesh

Virtual machine

Connect Start Restart Stop capture

Properties

Computer name : Hithesh

Disk

OS : Linux

OS disk : disk1

Host : None

Encryption: Disable

VM generation : 2

Data disk : 1

Agent status : Ready

Result: By using the Azure Infrastructure as a service (IaaS) created & verified successfully.

Cloud Computing is a delivery model for computing where shared resources and information are provided to computers and other devices on demand over a network (typically the Internet). It is based on the Internet and distributed computing principles. Cloud computing is a type of computing that allows users to access their data and applications from anywhere, at any time, using a web browser or mobile device. It is a pay-as-you-go model, which means that users only pay for the resources they use, rather than buying a physical server or infrastructure. Cloud computing offers several benefits, such as scalability, cost-effectiveness, and convenience. It is used in various industries, such as healthcare, finance, retail, and manufacturing. Cloud computing is also used in research and development, as well as in the development of new technologies. It is a rapidly growing field, and it is expected to continue to grow in the future.

120

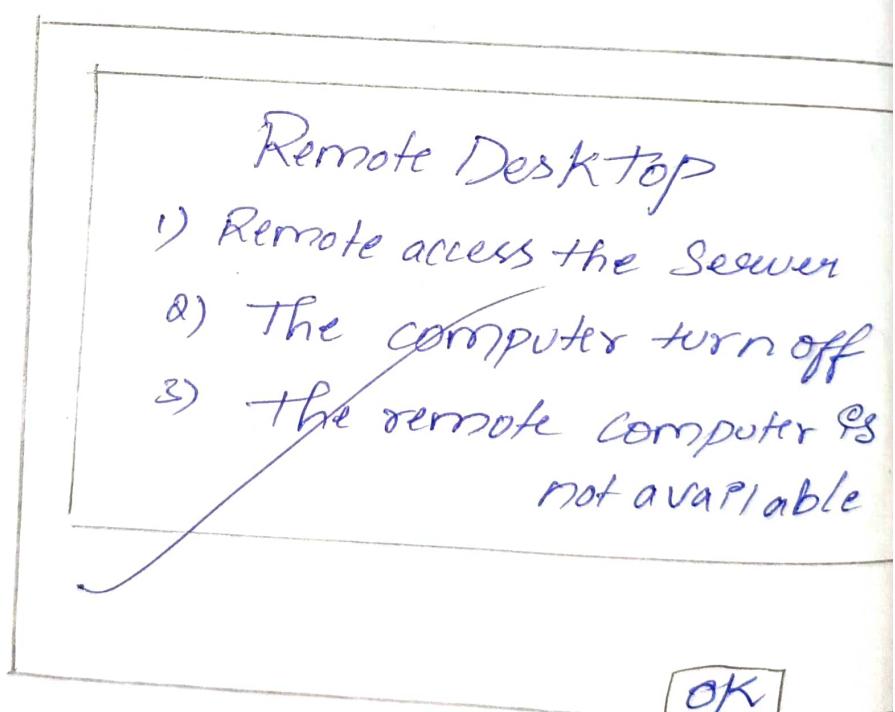
120

Q4. Aim: To demonstrate a Infrastructure as a service by establishing remote connection. Launch the VM image & Remote on your desktop.

Procedure:

- Create an account in Azure
- Go to resource group & create a resource
- Create a Virtual network for Virtual machine
- Now Virtual machine is developed
- Create an VM image through console, created Virtual image by specification
- Launch the Virtual machine using image created. You can now access VM remotely.

Output



Result:

Thus the Virtual machine is created & remote connection is established.

15. Aim: To demonstrate PaaS Service & create & configure a new VM Image in cloud Service.

Procedure:

- Go to azure portal and Sign on
- Create a new resource then search for web app & click create.
- Choose unique name for Web app Select Subscription.
- Choose runtime stack your web app & config settings
- You can deploy web application code to azure
- Once can be done in various methods like API repository from Virtual studio.
- Deployment is done you receive a URL where you can access the Webapp.

Output



Recyclebin



16. Aim: Create a simple website using any public cloud service provider (Azure / AWS) and check public accessibility of stored files

Procedure:

- Give necessary Details On basic and tags and click review.
- Go to Resource group & create a resource group.
- Now the Resource group created go to app services & create webapplication.
- Enter Resource group & webapp name & select region.
- After enter the necessary things click the review.

Output:

HTTP://
WebAPP Microsoft Azure
Hey, Node developer
Your app Service is up & running

Result: Thus the web application is created & successfully executed.

Output:

azurerefresh
webapp

Browse Start Swap Delete

^ Essentials

Resourcegroup: hithitgroup

DefaultDomain:

Status: Stopped

App Service plan

Location: East US

OS: Linux

Web app

Name: azurerefresh

Publish model: code

17.

Aim: To demonstrate storage as a Service create & configure new VM image on any public cloud provider.

Procedure:

- Go to Azure
- In azure portal click on create resources then search for Storage as Service acc and click create.
- Select the appropriate Performance & replication option and specify
- Once the Storage account is created navigate to it → configuration containers with unique names for container. Set the access level & click create.
- upload any file & after uploading the file you can get its public URL.

Output:

Trash

Terminal

Note Pad

UBUNTU

- ↑ ↓
From Slave

Result: thus the storage as a service for
vymage is created & executed

and it can be used by other services

to store their data in vymage.

Storage as a service is a good way to
store data in vymage.

and it can be used by other services
to store their data in vymage.

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store data in vymage.

18. Create

Aim: To Demonstrate a storage as a service using any public cloud service provider and check the public accessibility

Procedure:

- Go to Azure portal
- Create a new resource then Search for Storage as a account & click create
- Choose a unique name and select appropriate configuration
- Once the Storage Account is created then Create new container.
- Choose the unique name for container
- After uploading file, click on uploaded file & View

Output:

↓
Output

← → ⊞

≡ Renet

webcore.windows.net

Home About Services

We offer Modern Solutions
for Growing Business

Get Started

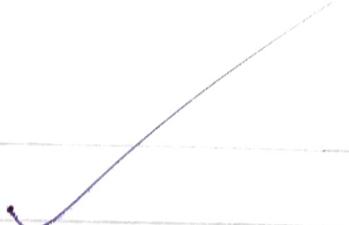
Result: ~~The storage as a service was created and successfully executed.~~

~~The storage as a service was created and successfully executed.~~

19. Aim: - To create a database as a Service Create and configure VM storage on any cloud service provider.
- Procedure:
- Go to Azure
 - Login with your any of your Email ID
 - Create a SQL Database and select the resource group which was created.
 - Enter the Server name and name of database uniquely.
 - Networking Select allow Azure Service resources to access Services.
 - In additional Settings Sample
 - The Database is Deployed.

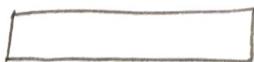
Output:

← → Q



Home →

Microsoft SQL database, new database



✖ cancel

⟳ Refresh

Name
DB

✓ Your deployment is complete

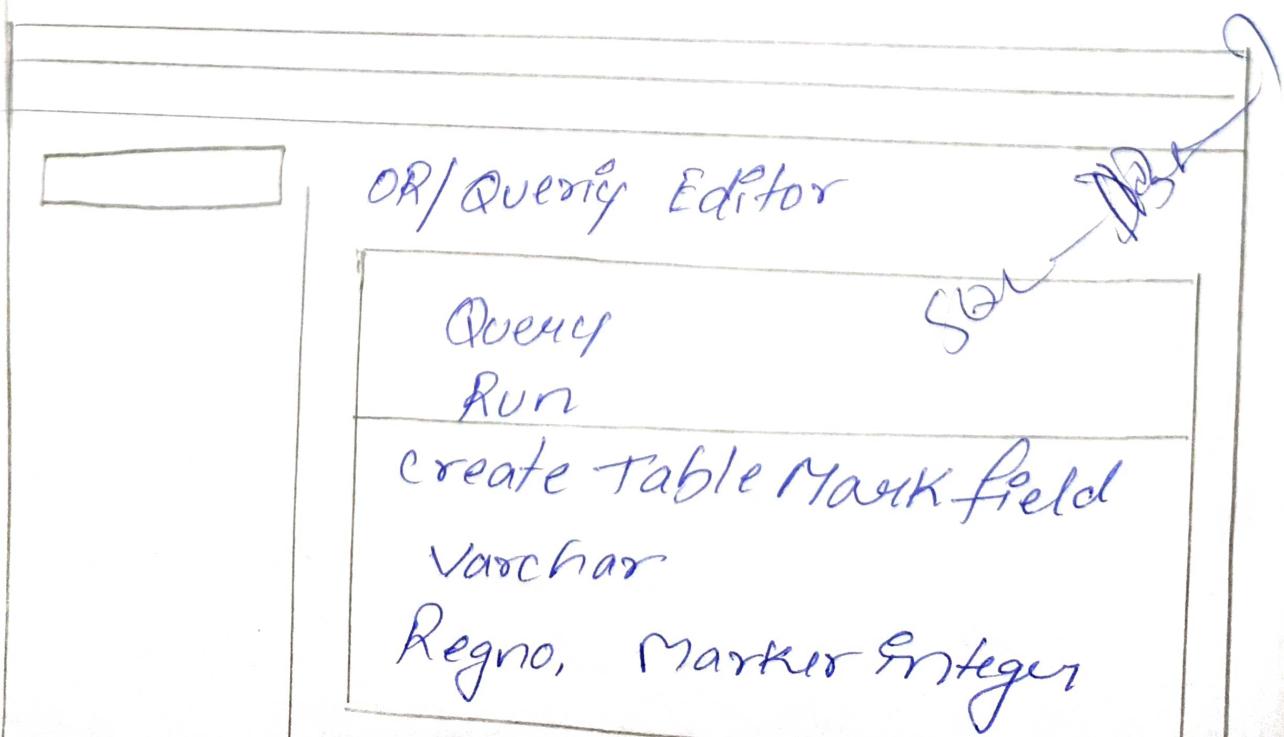
Go to Resources

Result: Thus using the VM image is created and successfully executed.

Qn. Aim: To create a SQL storage Service & Perform a Basic query using any cloud service

Procedure:

- Go to Azure
- Log in & now create a Sample resource
- Now create new Service SQL Database & select resource group which was created
- Enter the Servername the name of database.
- On networking select allow azure Service & resources
- In additional setting Select Simple
- Database is being created.
- Now create a table & try to retrieve those database using SQL



Result: The SOPPS created by Sidney Riley
executed.

Basic Configuration of Hadoop

Ques: To perform the basic configuration for installation of Hadoop like creation & configuration the HDuster and SSH local HDFS.

Procedure:

1) The first thing is setup the web on your system. Run the following commands to proceed.

\$ sudo apt - add - repository ppa: webupd8team/13.04

\$ sudo apt - get update

\$ sudo apt - get install oracle - Java & -inst

2) These steps must be followed for installation of Java.

\$ sudo apt - get install hadoop

\$ sudo add user haduser Sudo

3) Install SSH and create configuration

\$ sudo apt - get install ssh

\$ Suduster

\$ ssh - key gen - tasa - PxxA
output:

Creation of datanode & namenode

Aim: Install hadoop 2x and configure the name node & data node.

Procedure:

* Make sure we have installed Java on system
if not then

\$ sudo apt update

\$ sudo apt install default-jdk

→ Download Hadoop 2.x package from
site

website & extract it by using

\$ cd / - sudo tar. xzuf hadoop - x.x.x

\$ Edit Basic files or bash - profile to set
necessary environment variables by

\$ sources ~ / bash rc

* Configure hadoop directory & modify the
configuration files.

\$ cd Hadoop - Home / etc / hadoop

\$ sudo nano hadoop - env. sh

\$ sudo nano core - site. XML

* Add configuration inside

* HDFS site : XML

\$ at \$ home / : ssh : id - rsa . pub >> home / ssh
autostart

* Click of SSM Work

* Set local host

* Install hadoop

4 Extract hadoop 2.7.2

\$ sudo tar xvzf hadoop-2.7.2.tgz
it creates a folder "hadoop" at /usr/local/
\$ sudo MK disk-places/hadoop.

Output:

NameNode started at
localhost:54311
DataNode started at
localhost:54312

Result:

The name node & datanode is created &
executed.

23.

Map reducing

Aim: To create a hadoop 2x & test the map reduce platform with hadoop.

Procedure:

* open terminal

\$ su haduser

password

\$ start dfs and map reduce spt

\$ cd /usr/local/hadoop | hadoop 2.7.2/bin

\$ Start -dfs- sh

\$ start -yarn - sh

* check hadoop through web UI

https://local host:8088

http://local host:50070

* Local new terminal

\$ cd desktop

\$ mvn clean package

\$ cd target

\$ echo Hello hello

\$ cat >hello.txt

9. back bold terminal

\$ hadoop fs -copy from /local/home/Desktop
Inputdata/hello.txt

11 checking hello.txt name node

* Download and open eclipse by creating a new workspace.

Word count

Q4. Aim: To launch hadoop & perform map reduce program for word count problem.

Procedure:

- * open terminal
- * sc hadoop
- & password
- * start dfs & yarn services
- \$ cd /user/local/hadoop/hadoop-2.7.2/bin
- \$ start-dfs.sh
- \$ start-yarn.sh
- & jps
- * check hadoop in web UI
- ④ Go to browser https://local host:50070
http://local host:8088
- * open new terminal
- \$ cd Desktop
- \$ mkdir inputdata
- \$ cd inputdata
- \$ echo 'Hello, Hello'
- \$ cat >> Hello.txt
- * Go to the old terminal
- \$ hadoop fs \$ copy from local /home/hadoop/input data

output:

Result: Thus the Mapreduce program and word count problem is created & executed.