

Resource Group: Faherm

Status: Available

Location: South Prodia

Subscription: Azure for Students

Serven admin: Faheem

Networking: Show Networking

Active Directory admin: Configured

Server Name: faheem. database. window net

Aim:

To create database as a service (Dras) create and configure a new VM image in any public cloud service provider.

Brocedure .

- open azure Service provider.
- -> login to the azure (free for students).
- -> All cloud Services will be displayed.
- -> first we have to create a resource
- -> Provide region and resource group name.
- -> Click on create, the resource will be created.
- > Then go to sal dotabase.
- -> Now create the sql database.
- -> Select the nessurce group and enter the server name that applicable.
- and resource to access this server.
- → In additional settings select sample.
- -> The Sql database is deployed.

Resultin

Thus the demonstration of Storge as a Service (Saas) by using public cloud Service provided was successfully completed.

(Experiment-22) (Installing Hadoep) (Alm :) To perform the basic configured Setup for installing hadoop 2.x like creating the hd user & SSH local hose Proceduse * System update & Sudo aplt - get update. * Install Java & Set JAVA - Home & Sudo apt - add - repository ppa: mebupd 8 team | java \$ Sudo apt - get update & Sudo apt - get install oracle - java 8installex \$ Sudo apt-get install default - jdk & java Version. * Add a dedicated Hadsop uses & Sudo add group hadoop. & Sudo addresses ... in group hadoop had user & Sudo addresses had user Sudo. * Install SSH and create certificates & Sudo apt-get install SSh & Su ha usex & SSh - Key gen - tosa - p"" \$ cat & Home | SSh /id- rsa - pub >> & Home /. SSh | authorised - Keys

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* Check if SSH works
 $ ssh local host.
* Enstall Hadoop
$ Sudo +ax XVZf hadoof - 272 tex. gz
& Sudo mkdir - plusy / local / hadoop
 $ Sudo mv hadoop - 2.7.2/usr/local/ hadoop
& Sudo clown - R hd user: hadoop/usr/local/
                                      hadoop
```

Experiment-23 Configure Data Node & Name Node. EAim 3 Install hadoop 21x and configure the name node & data node. Procedure ? * After the installing of hadoop. * Modiby Hadoop config files \$ Sudo nanon/ bash & c \$ cd/45x/local/hadoop/hadoop. 2.7.2/etc/hadoop & Sudo nano hadoop - env. Sh \$ Sudo mkdir-pluser/local/hadoop-tmp/ hdfs/ name node \$ Sudo Chown - R hd uses: hadoop/uss/local/ hadoop - tmp \$ Sudo nano hdfs - Site XML \$ Sudo nano core - Site XML \$ Sudo nano yarn - Site - xml \$ Splusex/local Inadoop/hadoop - 2-7-2/etc/ hadoop/mapred-Site and template & Sudo nano mapred - Site . xml * Formal Hadoop File System. & cd/usr/local/ hadoop/ hadoop ~ 2.7.2/bin & hadeop name node - format. * Start Hadoop & cd luss | local | hadoop | hadoop - 2.7.2 | s bin & Start - dfs. Sh

& Start - yarn Sh & fps * Check Hadoop through web UI http: Illocal host: 8088 http://local host: 50070 * Stop Hadoop \$ Stop-dfs-Sh & Stop - yaxn. Sh

Scanned with CamScanner

Experiment - 24) (Test the MAP REDUCE Platform) (Aim) To create a hadoop 2 ox & test the Map reduce platform with hadoop. Broceduse :-> Open Terminal \$ SU hd usex Password: -> Start dfs & map reduce Services \$ cd/usr/local/ hadoop / hadoop - 2.7.2 | Sbin \$ Start - dfs. Sh \$ Start-yarn. Sh \$ jps > Check Hadoop through web UI http://local host: 8088 http://local host: 50070 > Open new Terminal & cd Desktop/ & mk dis input data & cd input data/ \$ echo "Hi, Hello, How are you? How is your health?" >> hello. txt \$ cat >> hello. Eext.

> Go back to old Tesminal

\$ hadoop fs - copy from local/home / hd user/
Desktop/input/hello.txt/folder/hd user/

> Download & Bo

→ Download & Open eclipse by creating

-> Create a new java project.

-> Add for the project.

(Experiment -25) { MAP REDUCE for Word Count? Aim: Launch the Hadoop 2x & perform map reduce program for a word court problem Procedure: -> Open Terminal \$ 34 hd user: Password: -> Start dfs & map reduce Services \$ cd/user/local/hadoop/hadoop - 2-7-2/sbin & Start - dfs. Sh & Start - yarn. Sh jps > Check the hadoop through web UI https://local host:8088 https://local host: 50070 > Open New Terminal \$ cd Desktop/ \$ mkdox Enput data \$ cd input data/ \$ echo "Hé, Hello, Hom are you?" >> hello. Ext \$ Cat >> hello. Ext. > Go back to the old Terminal hadoop fs-copy from local/home/hd user/ Desktop linput data / hello . tat/ folder / hd 4sex

-> Dountoad and open eclipse by creating workspace. Creating a New java project. -> Add java to the project. -> Ward Count program create 3 java files * Word Count. java * Word count mapper java * Word Count Reducer. java.