Yog Chaudhary

11727095

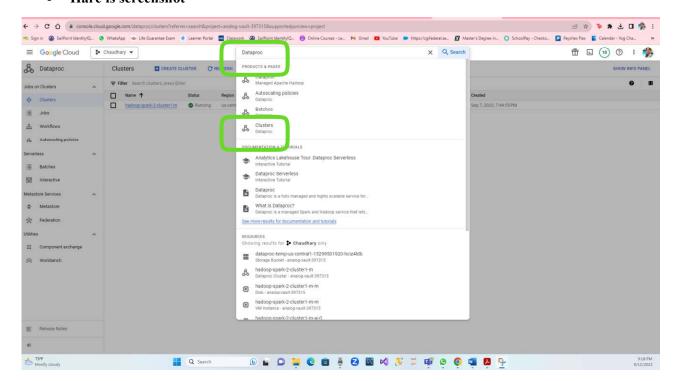
ADTA 5240 Week 3'rd (harvesting, Storing, And Retrieving Data)

Professor: Dr. Zeynep Orhan Sep 15, 2023

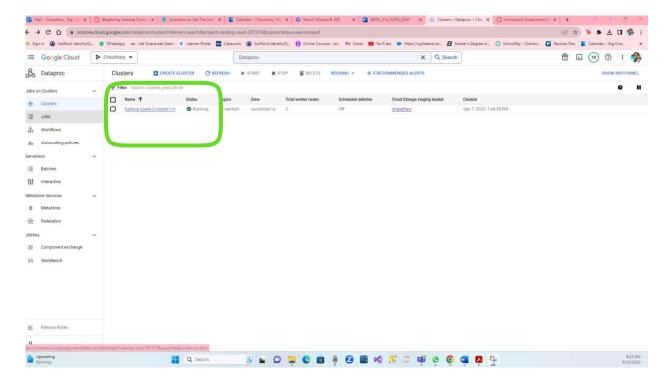
University Of North Texas

Exploring Remote Virtual Machine in the Cloud. Hadoop Ecosystem with Simple Linux Commands. Pdf

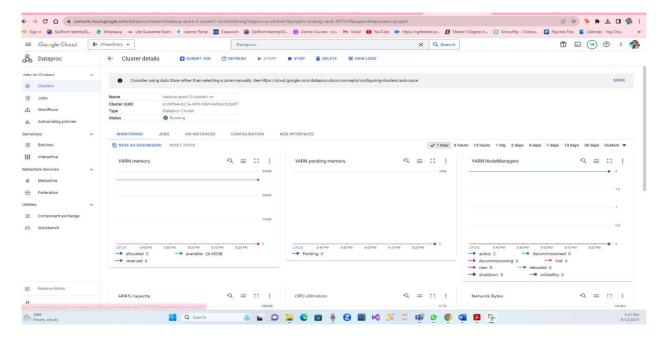
- **Monitoring the cluster in GCP:**
- 1. For a Google console.
- Then I clicked on three horizontal lines.
- In the search bar I typed "Cluster" and clicked on "Clusters Dataproc."
- Hare is screenshot



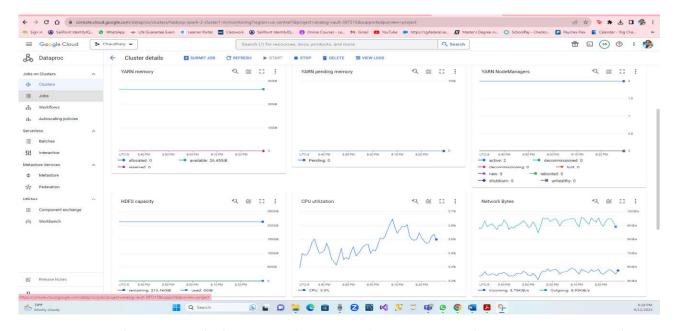
- After clicking on clusters data proc it will mention the cluster that I have previously created, and it will show that it was running (with a green check mark).
- Below shows a screenshot of that.



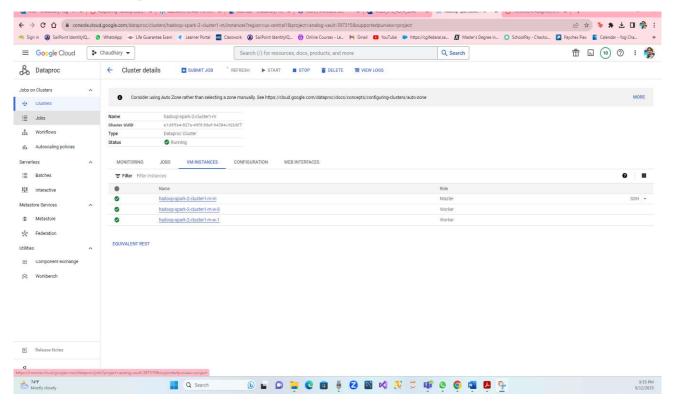
- While doing this we need to start nodes by checking on the navigation panel.
- Clicked on computing engine.
- Then clicked on three vertical dots and clicked on start/resume.
- Now click.
- Below screenshot of that.



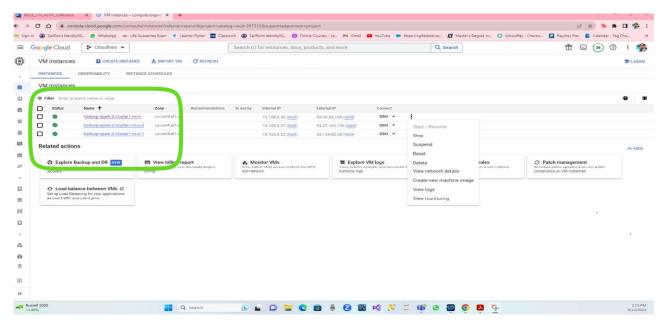
When I scroll down it will show how the monitoring is changing according to the usage.



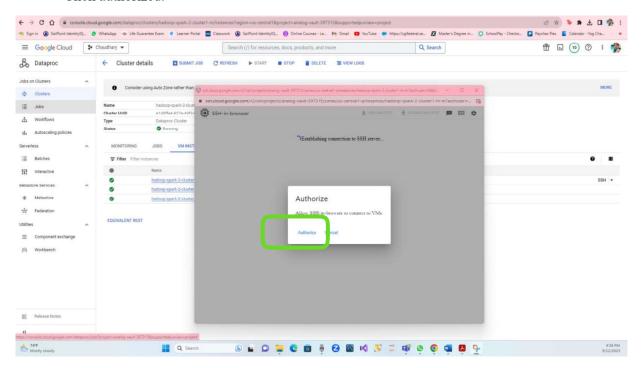
- By scrolling up and clicking on the virtual machines the screen will show the cluster details.
- We will see one master node and one worker node.
- After that I accessed the master node through "SSH."
- Click on "SSH."
- Click on "Open in browser."



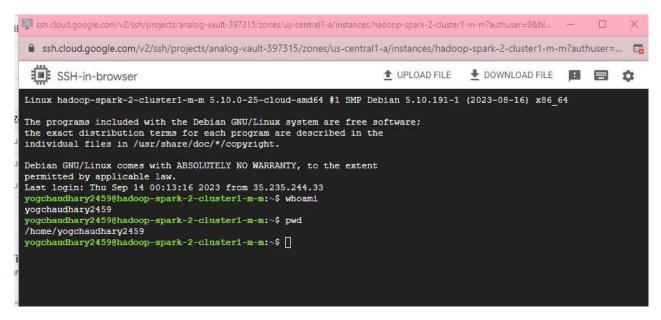
- Click on the drop-down button next to "SSH".
- Click on open in a new browser window.



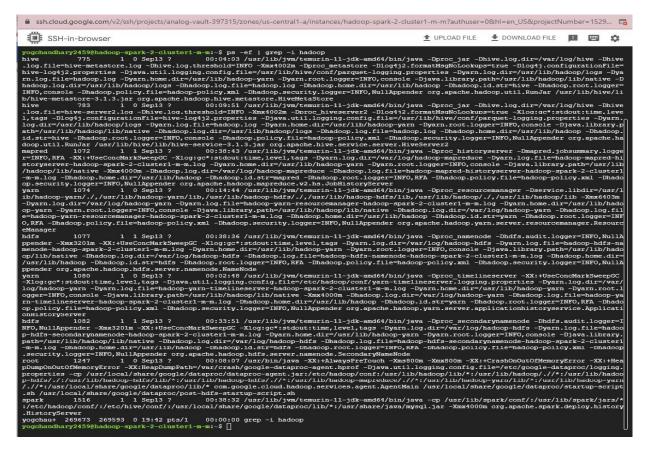
Click authorized.



- See all the services of Hadoop in our cluster.
- Use the command.
- whoami
- pwd



- use other commands.
- ps -ef | grep -I hadoop
- Hare screenshot



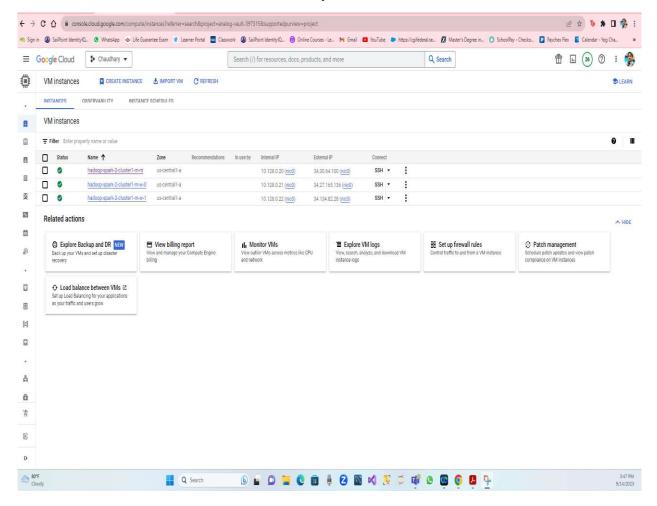
• Click on "Show Scrollbar" to see the scrollbar.

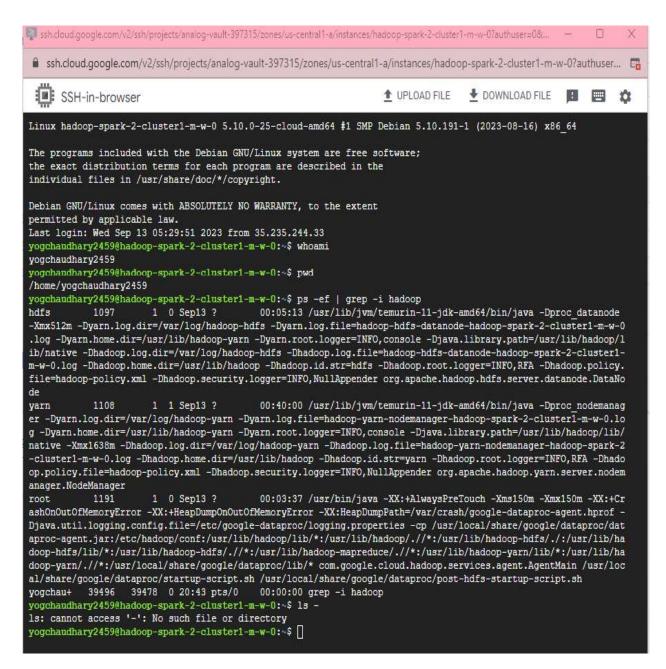
Hadoop with Linux Commands is successfully screenshot



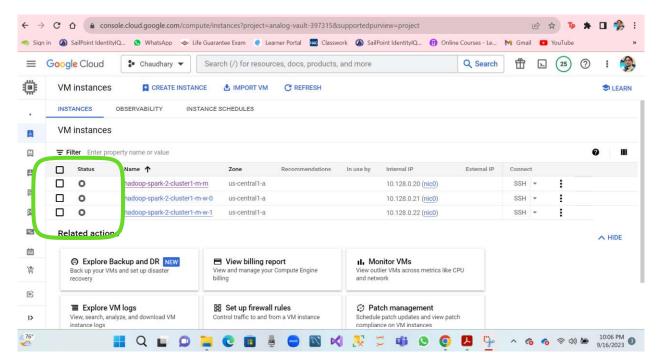
- They are all the components of Hadoop with Linux Commands.
- hive. Process number 775 running Hive MetaStor.
- hive. Process number 783 running HiveServer2.
- Mapred. Process number 1072 running JobHistoryServer.
- Yarn process number 1074 running ResourceManager.
- Hdfs process number 1077 running NameNode.
- Yarn. Process number 1080 running Application HistoryServer.
- Hdfs. Process number 1082 running SecondaryNameNode.
- Root. Process number 12347 ResourceManager.
- Spark. Process number 1516 running HistoryServer.

- 2. Now we must open another new SSH terminal.
- Going back to GCP and typing "computer engine."
- New clicked on "SSH" then I clicked on "open in browser."





3. Now finally all 3 virtual machine instances were stopped as shown below in GCP by selecting stop from the three dots present at the top right to the **SSH** each node.



- 4. The components of the Ecosystem for record and steps, included screenshot
- → Hare is the screenshot

