

CS19PHO - Data Analytics Assignment - 2

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Priocedure for hadoop installation along with commands using virtual box and ubuntu

Presquisites:

* Download and install Virtual Box.

* Download the latest LTS (Long Term Support) version of ubuntu.

Step-by- Step Procedure

1. Dreate a New Virtual machine

+ Open Virtual Box and click "New"

+ Choose a name for your M and select "Ubuntu"

as the OS.

as the os.

* Select memory allocation at least 267B for single mode clusher.

* create a new virtual hard disk & specify the size

at least 20 GB

2. Install Ubuntu

* Attack the downloaded Ubunter Iso image to VM's optical drive.

* Start M + install repentu

scheme and set a root password. 3. Update + Upgrade Packages + After installation, open terminal in Ubuntu: + sudo apt update sudo apt upgrade 4. Install dava + i Doronload JDK + Set OAVA_HOME environment raviable by adding emport JAVA-HOME = / path/to/jdk to bashoc file. 5. Install Hadoop * Doronload Radoop: * Extract the doronloaded tax file to directory tor -xVf hadoop-3.x.x.tor.gg-c/apt.

* Set HADOOP-HOME environment variable Bash export -HADOOP-HOME = /opt/Radoop-3.x.x to bashoc file

* Add hadoop bin directory to your PATH: export PATH = \$HADOOP_HOME /bin: \$ PATH 6. Konfigure Hadoop. Files from the etc/hadoop directory to your home directory Cp \$HADOOP-HOME/etc/hadoop/core-site.xml Cp \$HADOOP-HOME/etc/hadoop/hdfs-site.xml * Edit files to sonfigure hadoop. configuration > < property > <name > fs. obfauttFS </name>
<ralue > kdfe: // localhost: 9000 </value > </property> (property) <mame> dfs. reflication </mame>
<value> !</value> < 1 configuration>

7. Format the Name Node * Run the command to format Name Node hels namenade format 8. Start Hodoof Survices. Run the commands to start NameNode +
DetaNode survices. Bash start -df. sh 7. Verify hadoop Installation s Run to slick status of hadoof survices. o Access Fladoop Web VI * Open web browser + navigate to http:// localhost: 50070. You should see the Hadoop Web UD.