JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY, JAIPUR
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NAAC Accredited University

Faculty of Education and methodology

Department of Computer Science and Engineering

Faculty Name- Jv'n Narendra Kumar Chahar (Assistant Professor)

Program- B.Tech 6thSemester

Course Name – Web Intelligence, HADOOP and Big Data Analysis

Session no.: 12

 Session Name- Important Commands in Hadoop

Academic Day starts with –

- Greeting with saying **'Namaste'** by joining Hands together following by 2-3 Minutes Happy session, Celebrating birthday of any student of respective class and **National Anthem**.

Lecture starts with- quotations' answer writing

- Review of previous Session- **Inputs and Outputs in Java perspective**

Topic to be discussed today- Today We will discuss about **– Important Commands in Hadoop**

- Lesson deliverance (ICT, Diagrams & Live Example)-
- ➢ Diagrams

Introduction & Brief Discussion about the Topic **– An overview about commands in Hadoop**

Important Commands in Hadoop

All Hadoop commands are invoked by the **$HADOOP_HOME/bin/hadoop** command. Running the Hadoop script without any arguments prints the description for all commands.

Usage − hadoop [--config confdir] COMMAND

The following table lists the options available and their description.

Sr.No.	Option & Description
1	**namenode -format** Formats the DFS filesystem.
2	**secondarynamenode** Runs the DFS secondary namenode.
3	**namenode** Runs the DFS namenode.
4	**datanode** Runs a DFS datanode.
5	**dfsadmin** Runs a DFS admin client.
6	**mradmin** Runs a Map-Reduce admin client.
7	**fsck** Runs a DFS filesystem checking utility.
8	**fs** Runs a generic filesystem user client.
9	**balancer** Runs a cluster balancing utility.
10	**oiv** Applies the offline fsimage viewer to an fsimage.
11	**fetchdt** Fetches a delegation token from the NameNode.
12	**jobtracker** Runs the MapReduce job Tracker node.

13	**pipes**
	Runs a Pipes job.
14	**tasktracker**
	Runs a MapReduce task Tracker node.
15	**historyserver**
	Runs job history servers as a standalone daemon.
16	**job**
	Manipulates the MapReduce jobs.
17	**queue**
	Gets information regarding JobQueues.
18	**version**
	Prints the version.
19	**jar \<jar\>**
	Runs a jar file.
20	**distcp \<srcurl\> \<desturl\>**
	Copies file or directories recursively.
21	**distcp2 \<srcurl\> \<desturl\>**
	DistCp version 2.
22	**archive -archiveName NAME -p \<parent path\> \<src\>* \<dest\>**
	Creates a hadoop archive.
23	**classpath**
	Prints the class path needed to get the Hadoop jar and the required libraries.
24	**daemonlog**
	Get/Set the log level for each daemon

References-

1. **Book:** Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly Hadoop in Action by Chuck Lam, MANNING Publications

2. **Online:** https://www.tutorialspoint.com/

3. **Online:** http://www.oracle.com/

QUESTIONS: -

Q1. Where all the commands are placed in Hadoop?

Q2. Write at least 10 commands that are used in Hadoop.

Next, we will discuss about How to Interact with MapReduce Jobs

- Academic Day ends with-
  National song 'Vande Mataram'