

PRACTICAL-3

Perform the following using CloudxLab.

Note: It is the platform, where you can learn and practice Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Big Data, Hadoop, Spark and related technologies.

Login credentials: (Website: <https://cloudxlab.com/>)

User/Email-ID: paresh.solanki@ganpatuniversity.ac.in

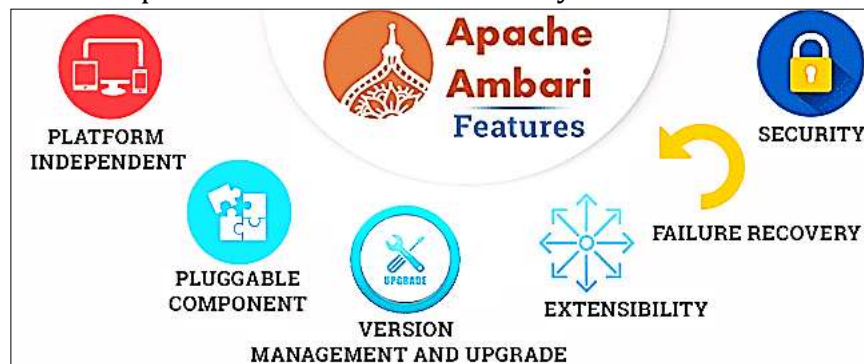
Password: Uvpce@12345

User/Email-ID: venus766@gmail.com

Password: uvpce@2024

Task-1: Login into CloudxLab and Open Ambari and check server status and other configurations.

Note: It is an open source administration tool, which is responsible for keeping track of running applications and their status. It is deployed on top of the Hadoop cluster. Moreover, we can consider it as an open source web-based management tool, which manages monitors as well as provisions the health of Hadoop clusters. However, to visualize the progress as well as the status of every application, which is running over the Hadoop cluster, Ambari offers highly interactive dashboard, which permits administrators. In addition, it is very flexible and scalable user-interface, which permits a range of tools, for example, Pig, MapReduce, Hive, and many more to be installed on the cluster and administers their performances in a user-friendly fashion.



Task-2: Perform the basic HDFS commands in CloudxLab.

Task-3: Perform following using Web console in CloudxLab.

1. Create File and save some content in it
2. Transfer it into the HDFS
3. Verify it is available in HDFS
4. Check the Content of the file(Display it on screen)

Task-4: Access the files, which you have stored in the HDFS and list out the IP addresses of the nodes of the blocks in which the file is stored, and check its replication factor. Change the Replication factor other than by default you observed and Give a Reason what happens when you Increase and decrease the replication factor of the file stored. Also, perform the following:

1. Create directory.
2. Create File
3. Transfer new created file into created directory.
4. Change the replication factor of the file and the whole directory.
5. Check the list of files and directories in HDFS (Not in Linux console)