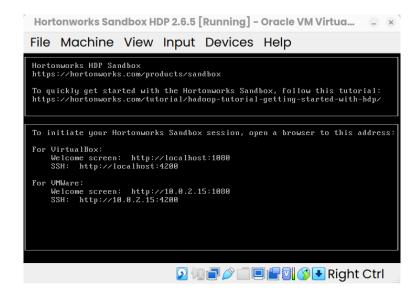
Practical-03

Aim: Study various operations of HortonWorks Sandbox on Virtual Machine.

Procedure:

1. Start the Horton Works it shows the IP address of machine.



- 9. Navigate to http://localhost:4200
- 10. Use the username and password: maria dev to login.



11. Execute the following commands one-by-one:

\Box hadoop fs -ls

The command hadoop fs -ls is used to list files and directories stored in Hadoop Distributed File System (HDFS) or other supported file systems (like local FS, S3, etc., depending on configuration).

It also shows the metadata:

- File permissions
- Replication factor

- Owner & group
- File size (in bytes)
- Last modification date & time
- Path

□ hadoop fs -mkdir ml-100k

The hadoop fs -mkdir command is used to create new directories in Hadoop Distributed File System (HDFS) (or any other file system supported by Hadoop, like S3, local FS, etc.,

We will give the command for creating a directory for a movielens dataset

□ wget http://media.sundog-soft.com/hadoop/ml-100k/u.data

The above command is used to copy the data from web server to the Hadoop file system

 \Box ls

Give the command ls to see whether the data is downloaded Once it is downloaded, you will see the name as u.data

□ ls -la

In **Linux**, ls -la lists **all files including hidden ones** (those starting with .), with detailed information (long format).

☐ hadoop fs -copyFromLocal u.data ml-100k/u.data

The file will get copied from local file system to the Hadoop named as u.data

☐ hadoop fs -ls

The hadoop fs -ls command is used to list files and directories in Hadoop Distributed File System (HDFS) or in any other file system supported by Hadoop (like local FS, S3, etc., depending on configuration)

□ hadoop fs -rm ml-100k/u.data



- To **remove (delete) files** from HDFS.
- Works similar to Linux rm, but operates on HDFS.

\square hadoop fs -rmdir ml-100k

The hadoop fs -rmdir command is used to remove (delete) empty directories from HDFS.



- To delete **empty directories** in Hadoop Distributed File System (HDFS).
- It is similar to the Linux rmdir command.
- Unlike -rm -r, it cannot delete directories that contain files or subdirectories.

□ hadoop fs -ls

The commands checks where the directory is removed from the hadoop