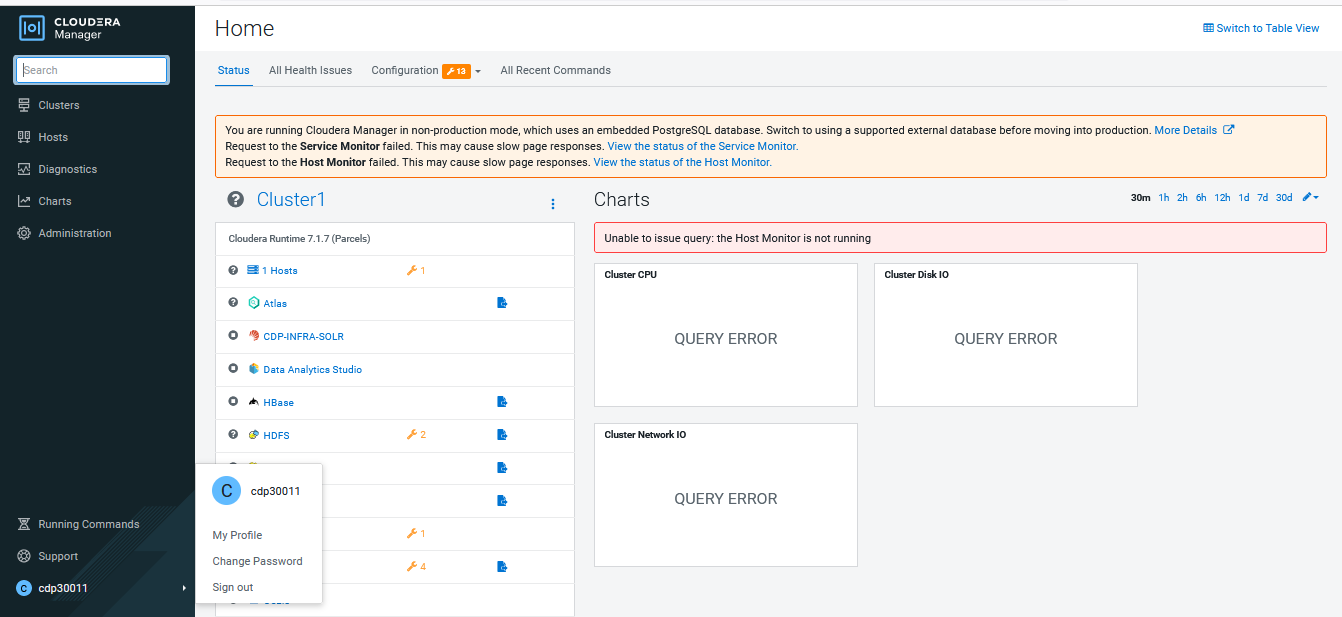
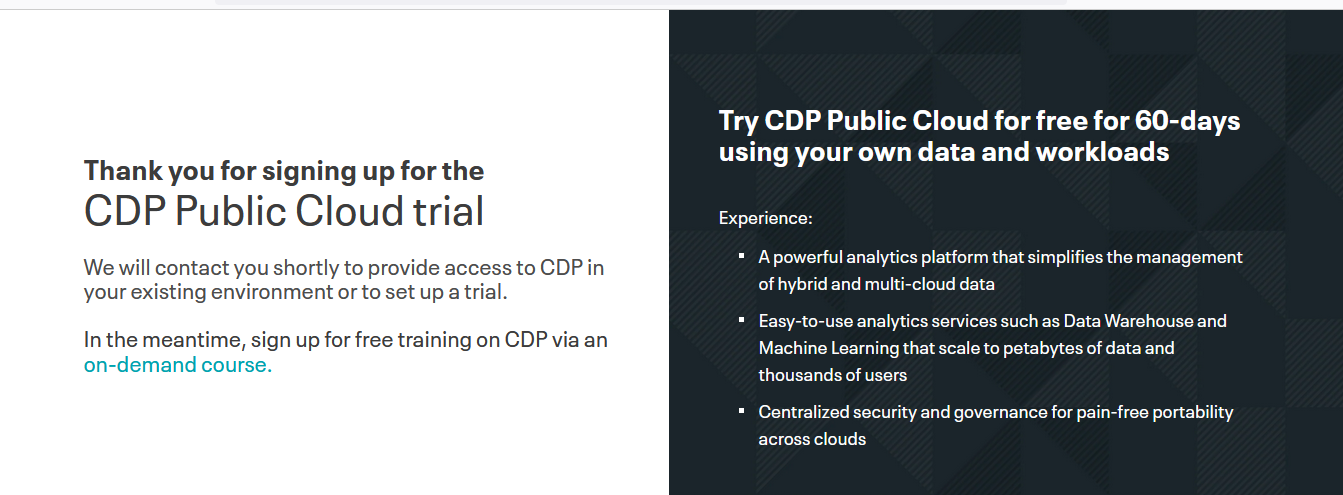
**Prepared by : Amrit Chhetri, RCS(Siliguri)**

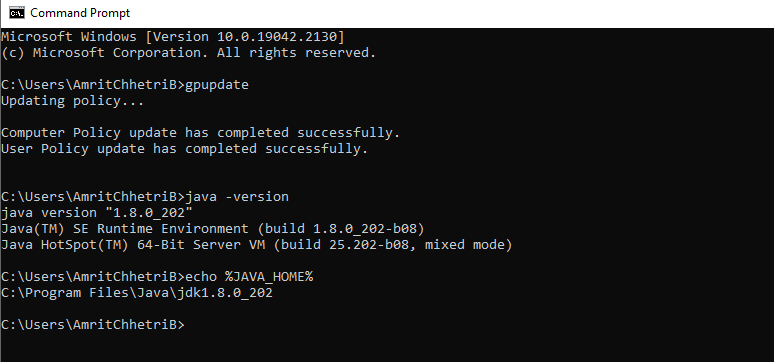
**CDP Developer Participant Environment Setup**

1. **Software Stacks for CDP 3001 Certification Training:**
   1. Cloudera Platform : CDP Private Cloud on GCP
   2. SDKs : Java, Scala, Python and Spark
   3. IDES : Jupyter Notebook, PyCharm Edu and Intellij Edu
   4. Remote Terminal : WinSCP and Smart Putty
   5. Utility : Notepad++, 7Zip
   6. DevSecOps and MLOps : Jenkins, Git, GitHub and Splunk   
      For download links and version, refer “***CDP Developer Workstation for CDP 3001 Certification 1.0.docx***”
2. **CDP Cloud Systems:**
   1. **CDP Private Cloud:** Installation on Cloud/Data Centre, private installation. CDP Private Cloud

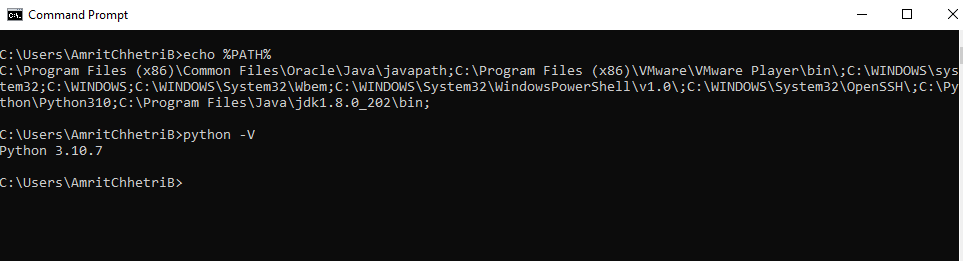
CDP Private Cloud Address: [http://35.223.46.173:7180](http://35.223.46.173:7180/) . It is installed on Ubuntu 20.04 LTS in GCP System with all Services.

* 1. **CDP Public Cloud:** No Installation, Cloudera SASS. CDP Public Cloud Data Services:

URL: [https://www.cloudera.com/campaign/try-cdp-public-cloud.html](https://www.cloudera.com/campaign/try-cdp-public-cloud.html)

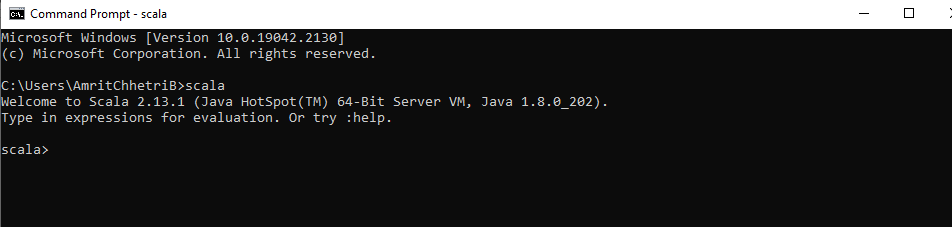
1. **Software Stack for CDP-3001-Installations Steps:** 
   1. **Java 1.8 and Java 11 Installation:**
      1. Download installers of JDK 1.8 and JDK 11
      2. Run setup with default settings and click on finish
      3. Post installation, configure JAVA\_HOME in Environment Properties
      4. Open Windows Command Prompt and type gpupdate, java -version and echo %JAVA\_HOME%

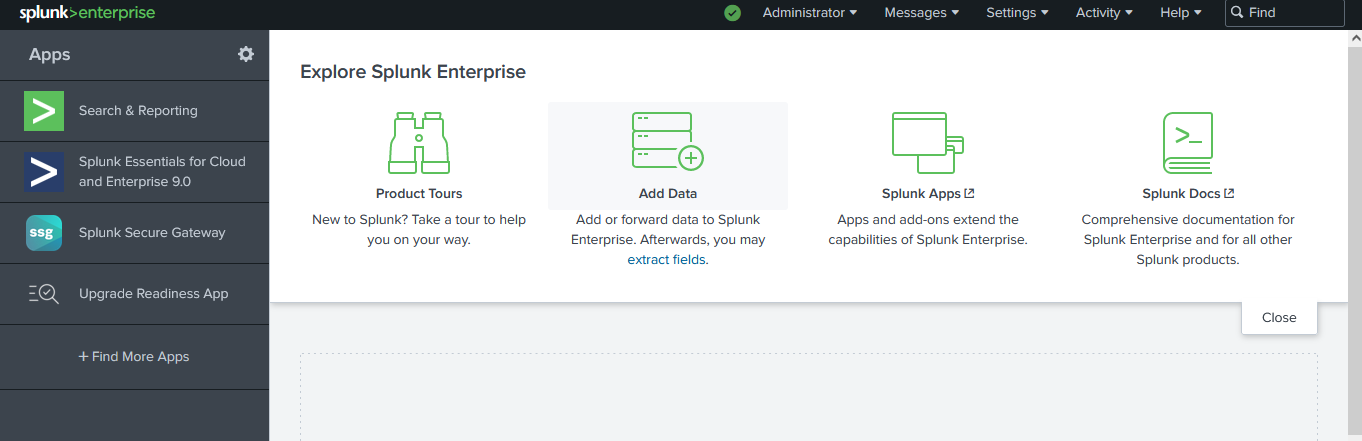
Follow similar steps for Java 11 for Jenkins and features comparisons. Site https://www.oracle.com/in/java/technologies/javase/jdk11-archive-downloads.html

* 1. **Python 3.6 and Python 3.10:**
     1. Get installer of python 3.10 and change installation directory to C:\Python\Python310
     2. Post Installation, add python home folder C:\Python\Python310 in path
     3. Type echo %PATH%, python -V

* 1. **Scala Installation:**
     1. Get installer of Scala and install

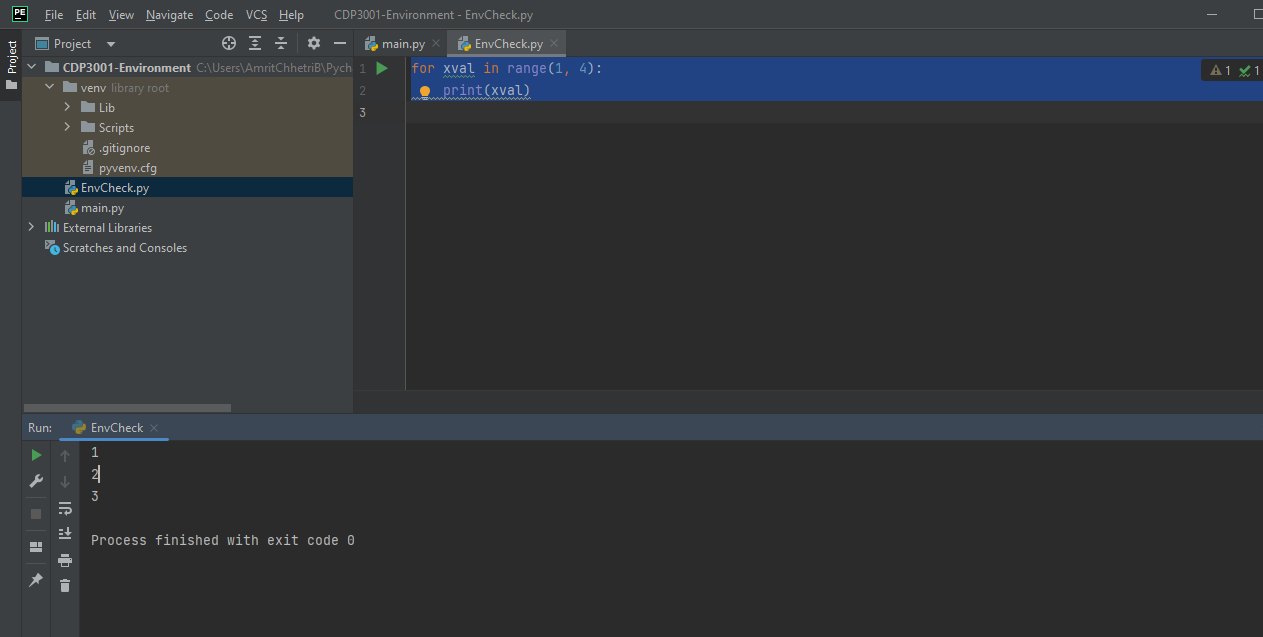
<https://downloads.lightbend.com/scala/2.13.1/scala-2.13.1.msi>

* + 1. Post Installation, open Windows Prompt and type scala on Prompt
  1. **Splunk Installation:**
     1. Get installer of Splunk and install with default settings, whenever promted create your user credentials - username/password: amritchhetrib/Qwerty123456
     2. Post Installation, access by typing [http://127.0.0.1:8000](http://127.0.0.1:8000/)

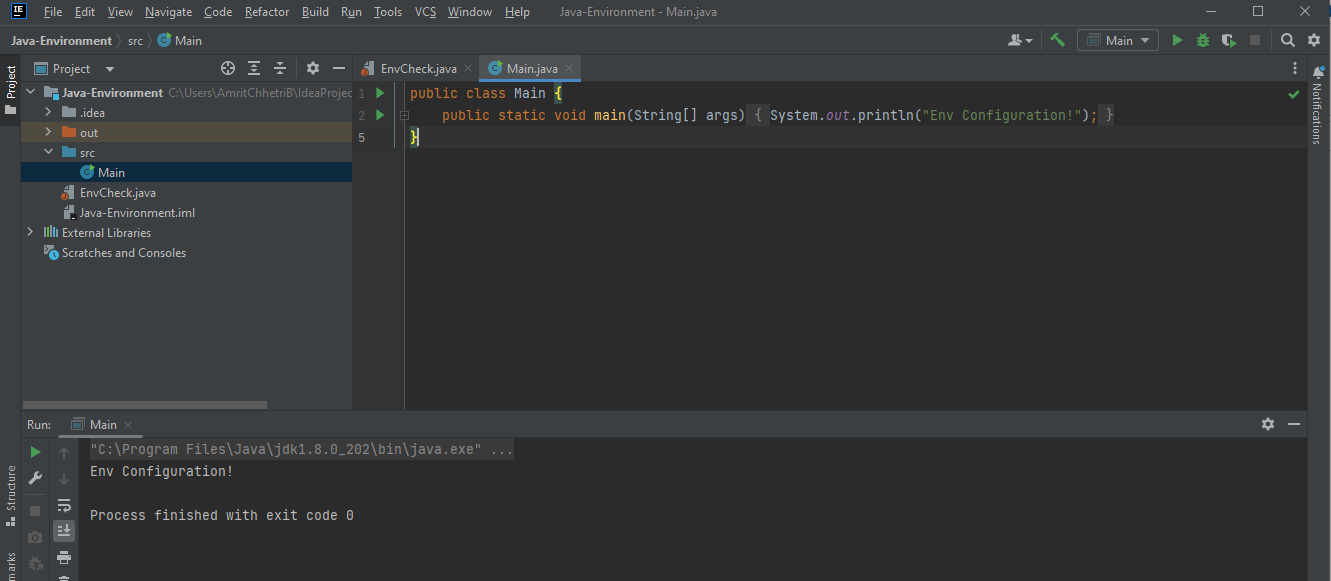
****

* 1. **PyCharm Installation:**
     1. Download/Get installer of PyCharm and install with default settings
     2. **Post** Installation, open and click on New ->Project->Python-> create file EnvCheck.py and write

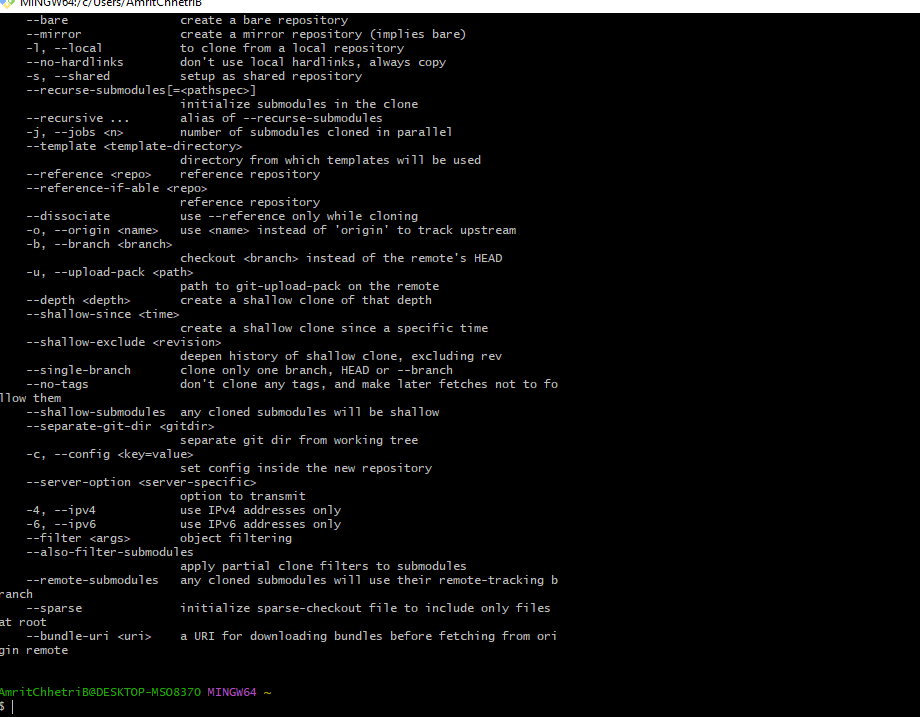
*for xval in range(1, 4):*

 *print(xval)*

* 1. **Intellij Edu Installation:**
     1. Download/Get installer of Intellij and install with default settings
     2. Post Installation, Post Installation, open and click on New -Project-Java Project

****

* 1. **Git Installation:**
     1. Get installer of Git and install with default settings
     2. Post Installation, type git clone

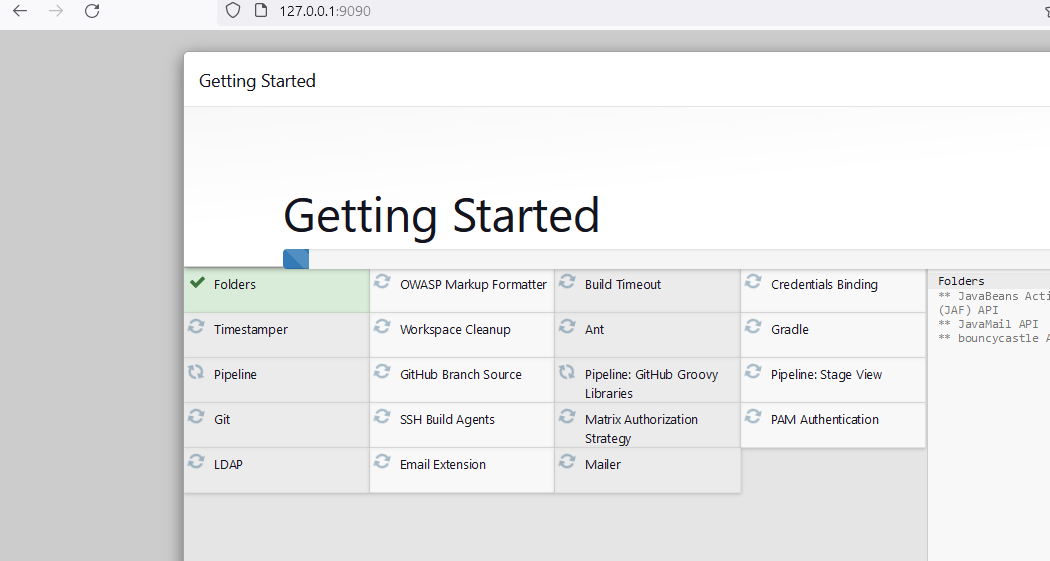


Create a folder CDP-3001-Certification in C or D and Examples

Open Windows Prompt, go to Examples and types

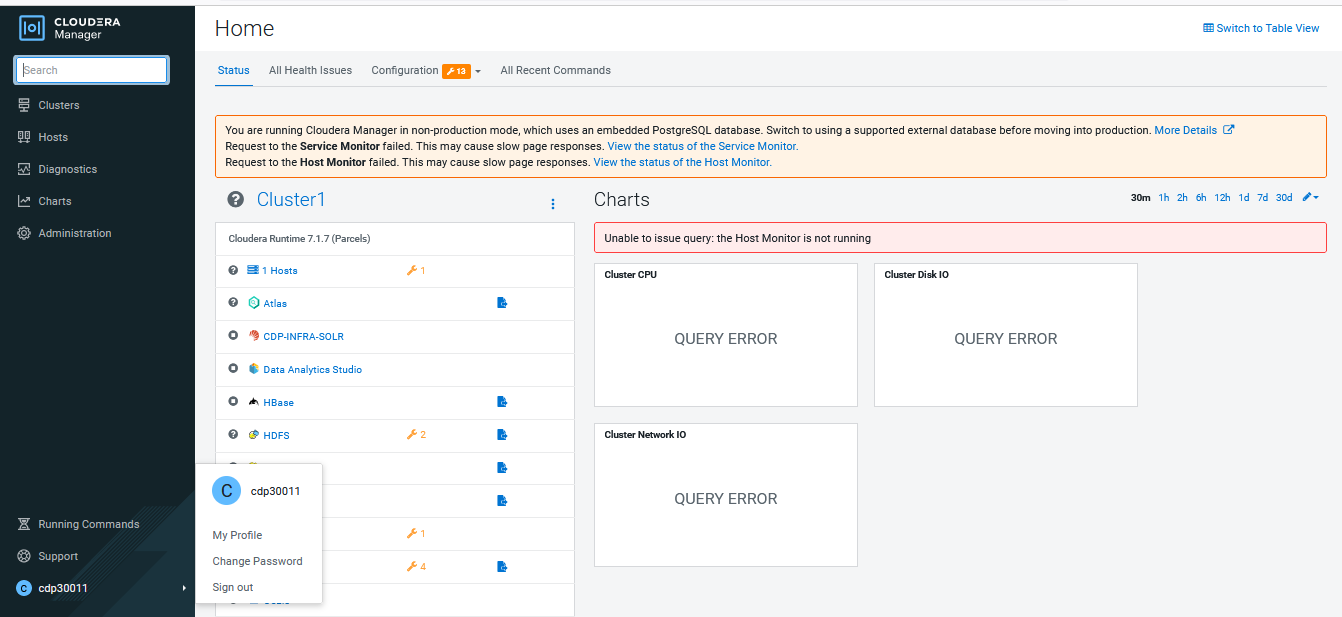
git -c http.sslVerify=false clone <https://github.com/spark-examples/spark-scala->xamples.git

* 1. **Jenkins Installation:**
     1. Get installer of Jenkins and install with default settings
     2. Post Installation, access typing htt://ip:9090 , as given during installation
     3. Login with password in C:\ProgramData\Jenkins\.jenkins\secrets\initialAdminPassword



1. **Software Stack for CDP-3001-** Check **Steps:** 
   1. **CDP Private Cloud( setup for Training):**  
      Web Address: http://35.223.46.173:7180

Username: cdp30011

 Password : Qwerty123456$  
 Access Type: Private Cloud

* 1. CDP Public Cloud (SAAS) – SAAS Access :
  2. HDFS Access: with SSH

IP Address: 35.223.46.173 Port: 22

Username: cdp30011

Password : Qwerty123456$

Create directory to load file:

Leave Safe Mode: sudo -u hdfs hdfs dfsadmin -safemode leave

sudo -u hdfs hadoop fs -mkdir /cdproot

sudo -u hdfs hadoop fs -mkdir /cdproot/spark  
 sudo -u hdfs hadoop fs -mkdir /cdproot/nifi

sudo -u hdfs hadoop fs -mkdir /cdproot/spark  
 sudo -u hdfs hadoop fs -ls /cdproot

sudo -u hdfs hadoop fs -ls /cdproot

sudo -u hdfs hadoop fs -put Data.txt /cdproot/data  
 sudo -u hdfs hadoop fs -cat /cdproot/data/Data.txt  
 Deleting files: sudo -u hdfs hadoop fs -rmdir /cdproot/spark

