

# Edureka Cloud Lab Guide

---

edureka!

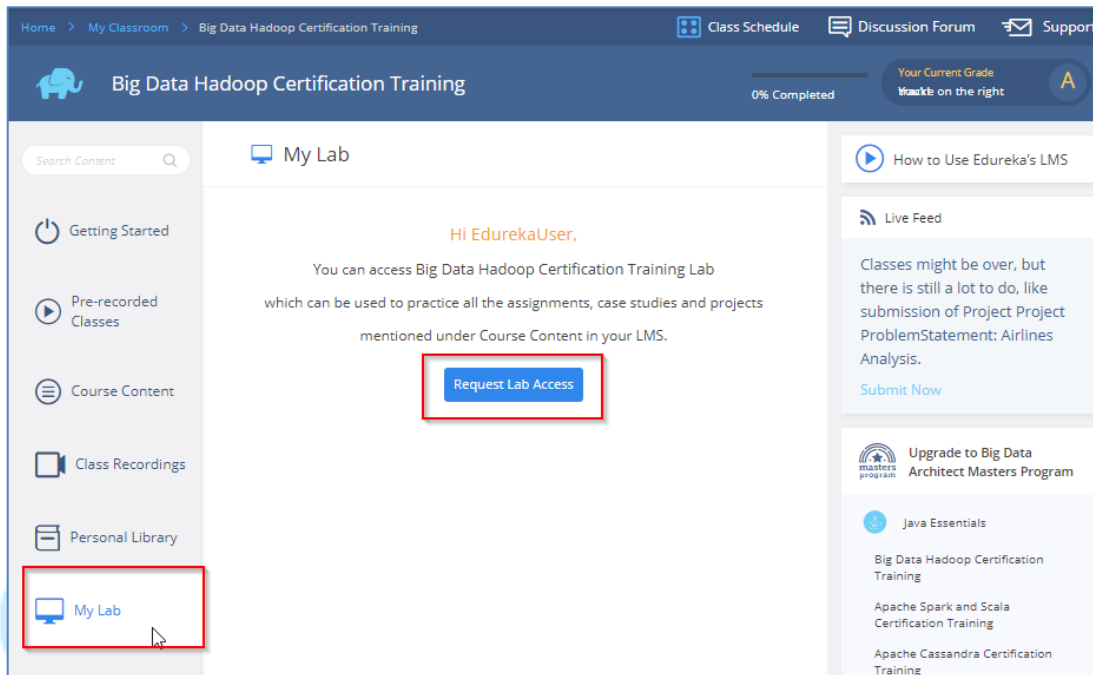
**edureka!**

© Brain4ce Education Solutions Pvt. Ltd.

## Accessing Cloud Lab in LMS

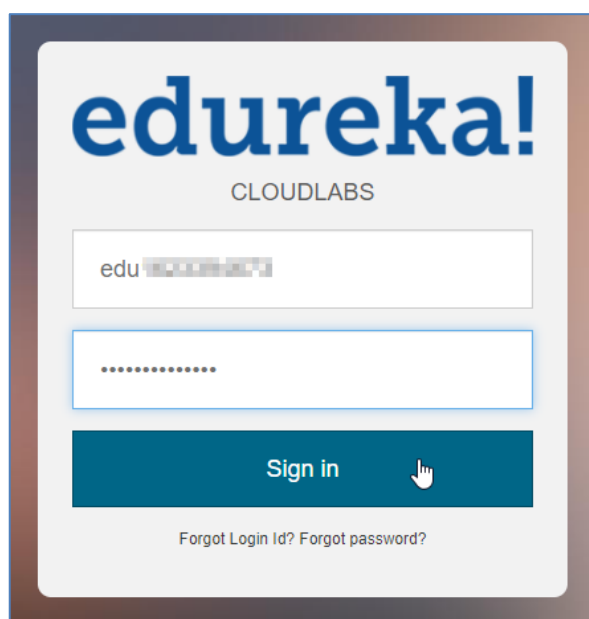
Steps:

1. To access Edureka Cloud Lab, go to your LMS and click on “Go to Course” under “Big Data Hadoop Certification Training”
2. Click on ‘My Lab’ tab and then on ‘Request Lab Access’

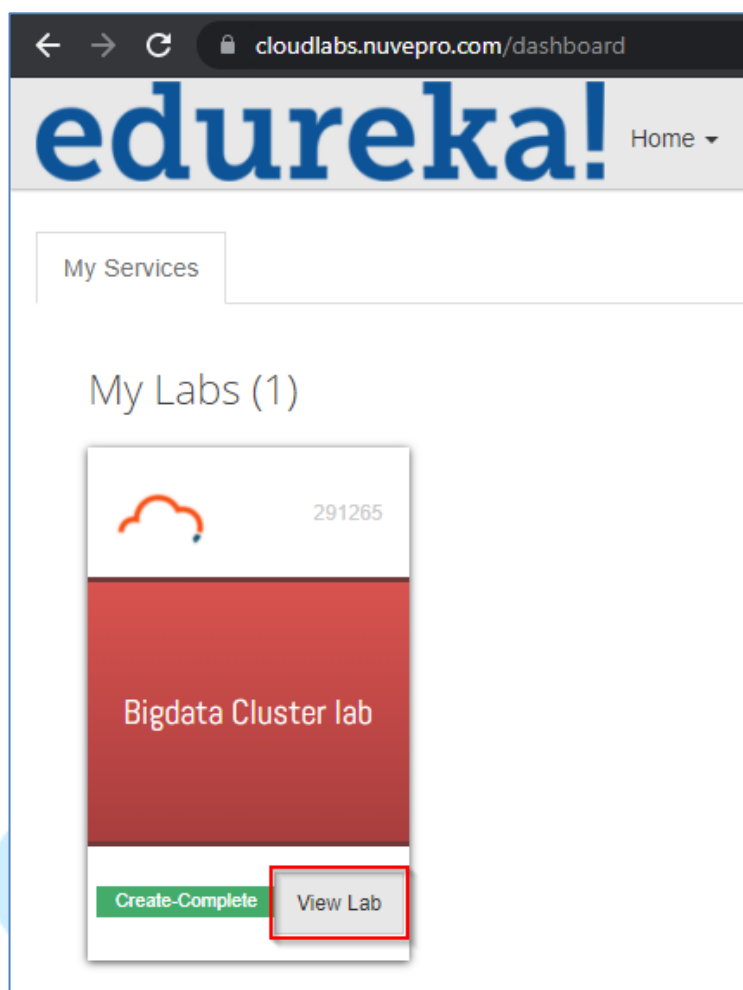


*Note: The first time you request the lab access, it may take upto 24 hours.*

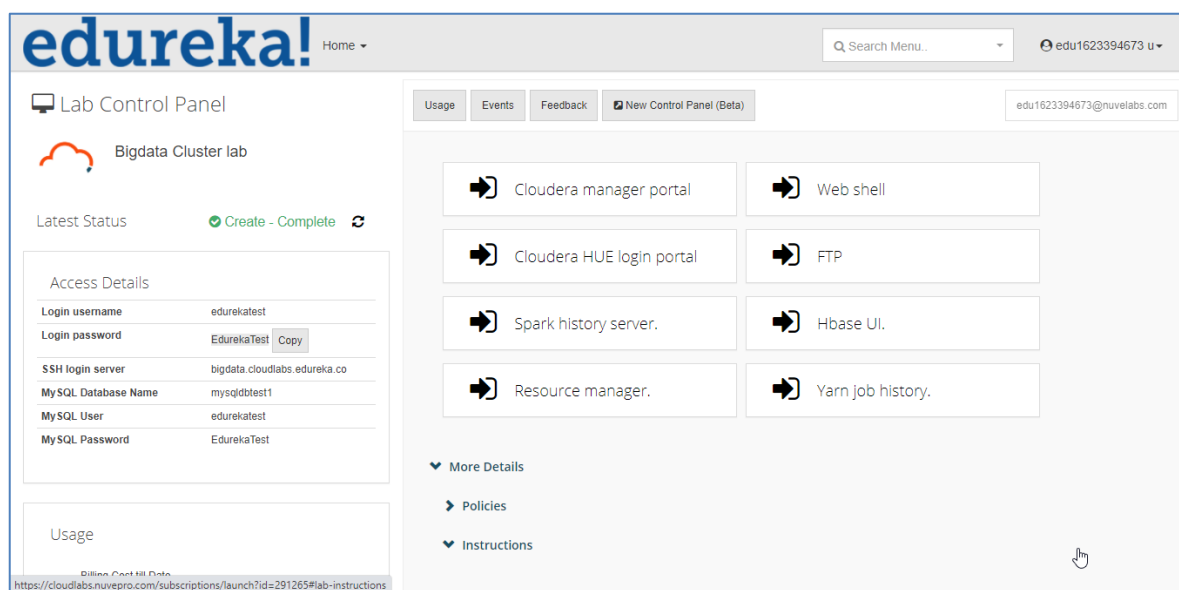
3. Use the credentials provided to login to the cloud Lab.  
URL: <https://cloudlabs.nuvepro.com/company/EdurekaLive/home>



4. After successful login, a page is displayed as shown in the picture below:

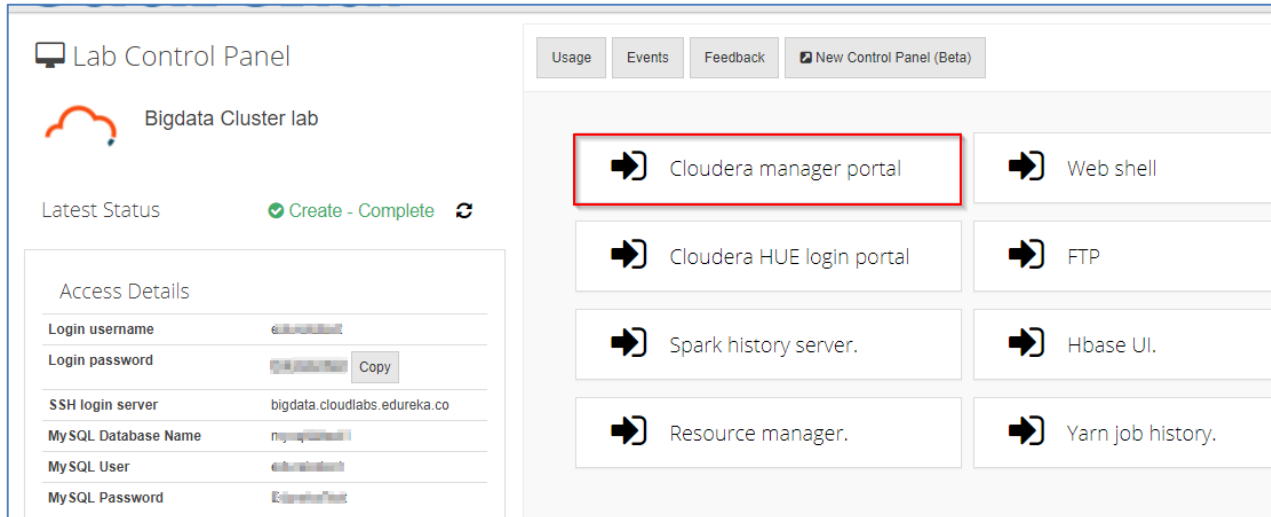


5. Click on 'View Lab'

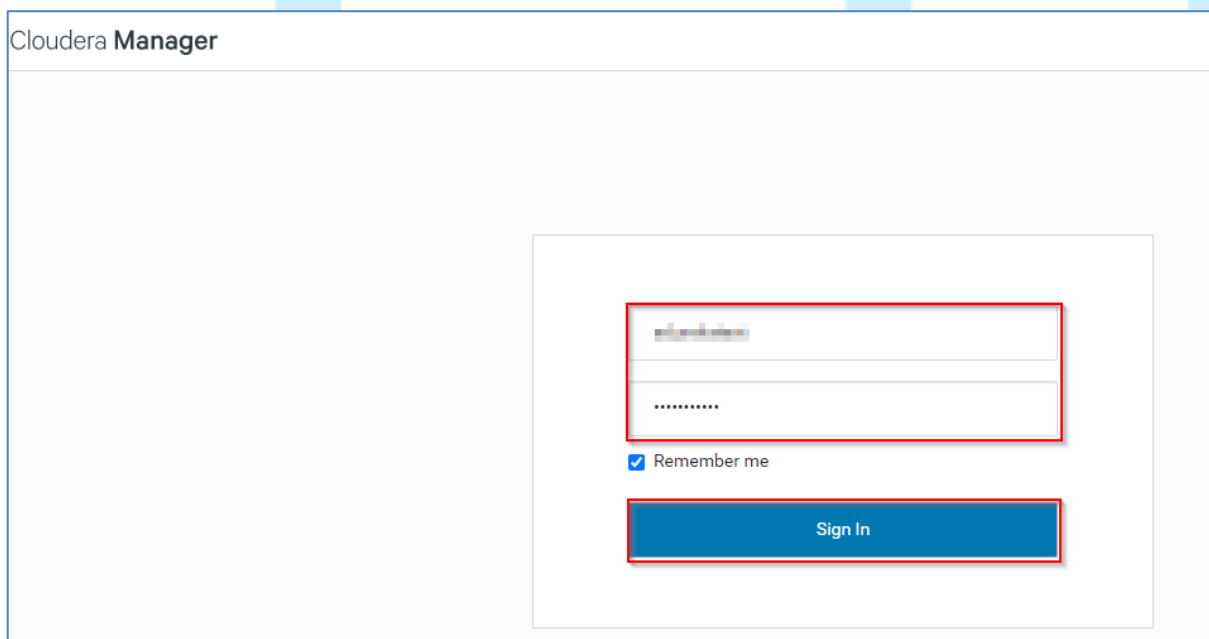


## Accessing Cloudera Manager Portal

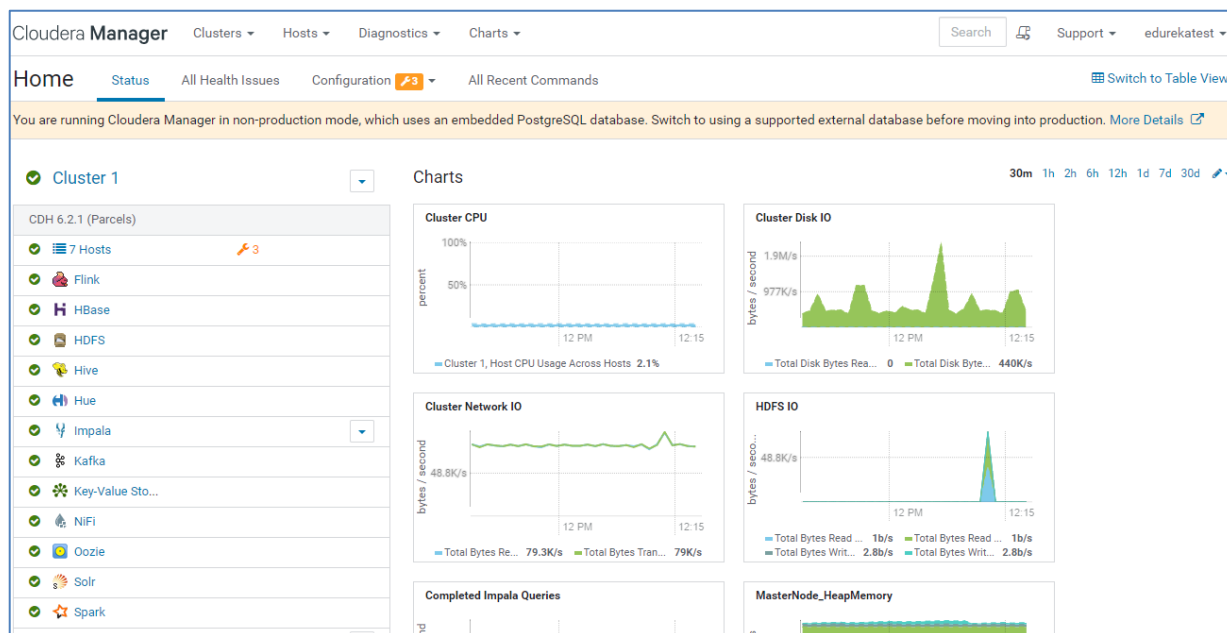
Step 1: Click on Cloudera Manager Portal Tab. Please use the credentials provided in the left panel.



Step 2: Enter the credentials and click on Sign-in

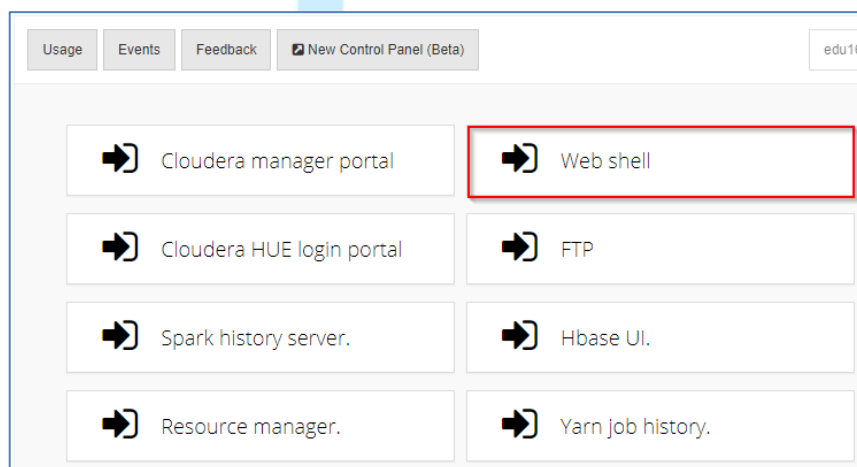


Step 3: After signing in, a screen will be displayed as shown in the below image:

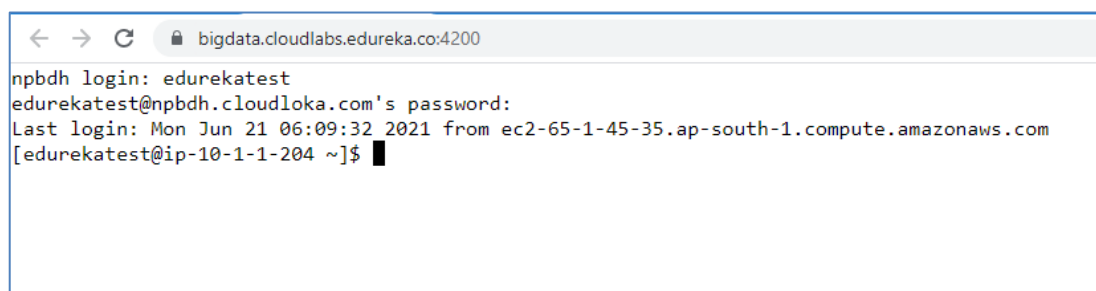


## Accessing Web Shell

Step 1: Go to 'Web Shell' Tab and click on it.

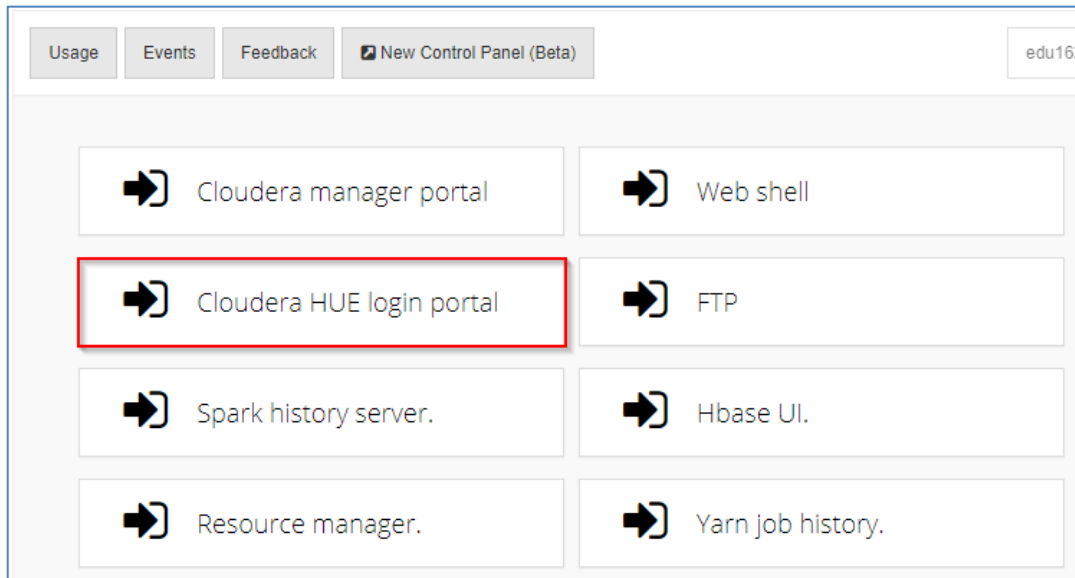


Step 2: Enter the username and password provided. Your screen should appear like:

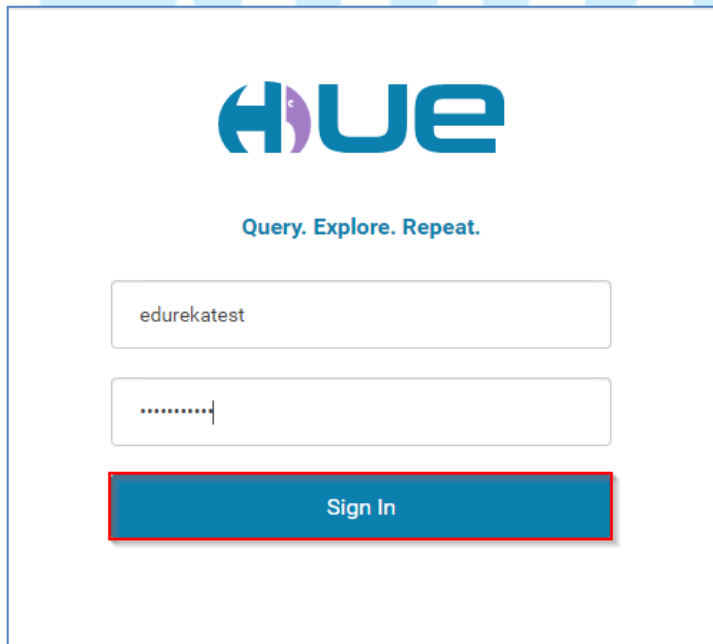


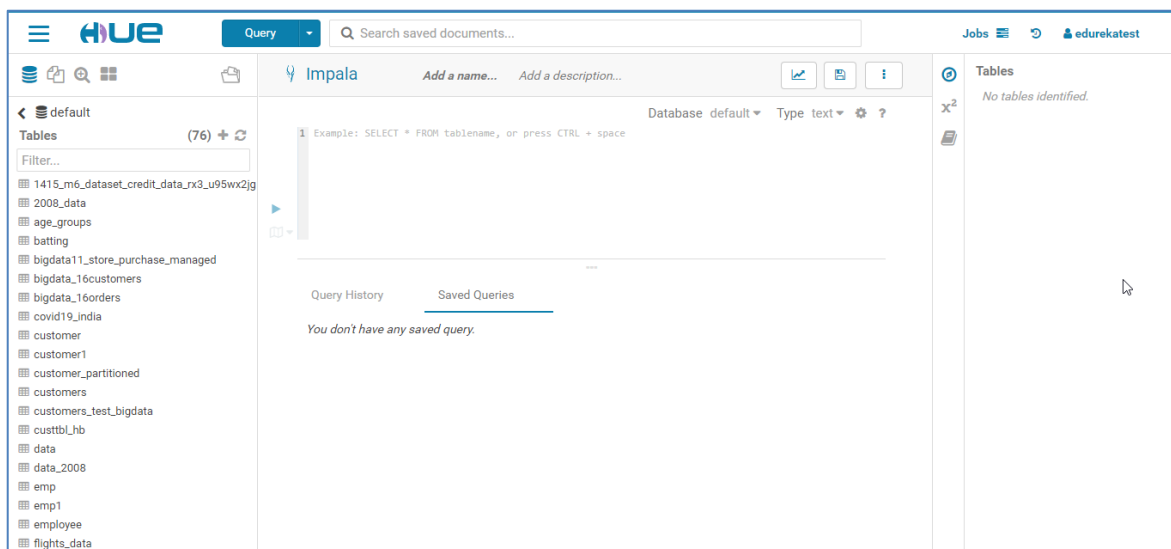
## Accessing Hue Portal

Step 1: Click on 'Cloudera HUE Login Portal, tab



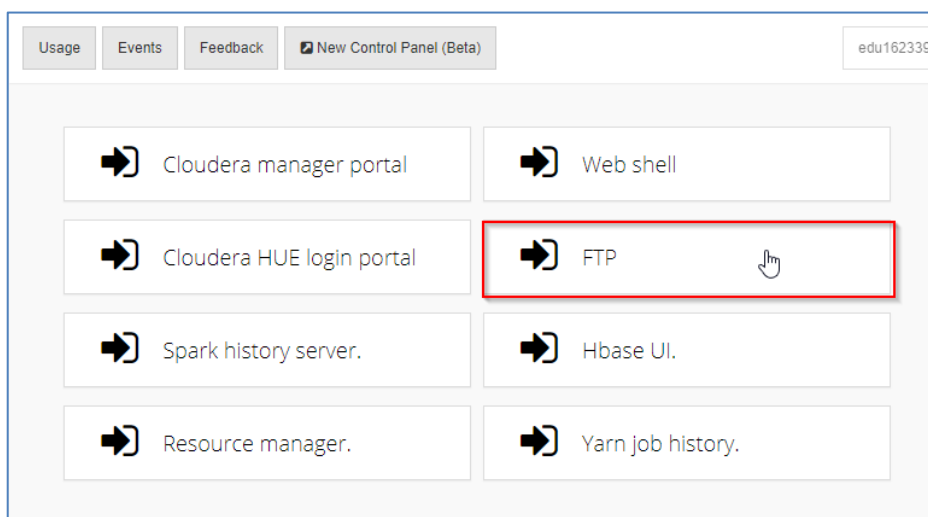
Step 2: Enter the username and password provided and click on Sign In. Your screen should appear as shown below:



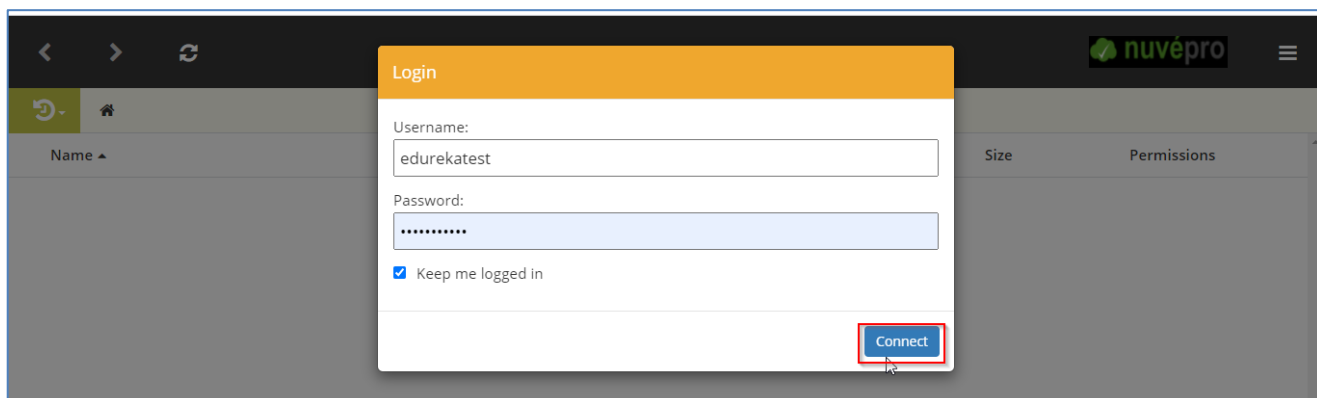


## Accessing FTP

Step 1: Click on FTP Tab



Step 2: Enter the username and password provided and click on Connect.

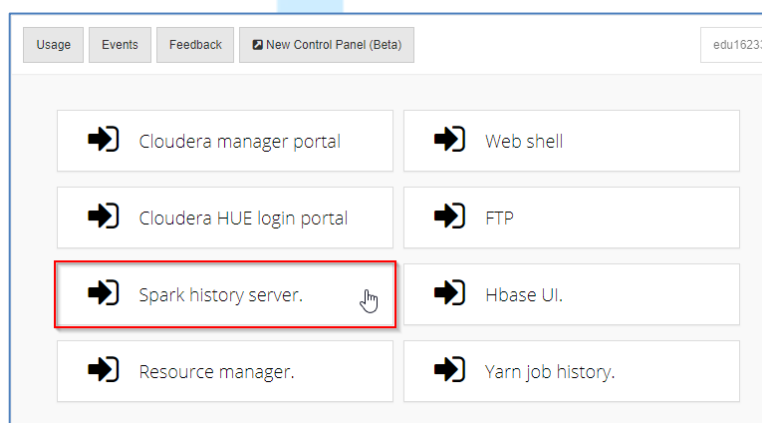


Step 3: Your screen should appear as shown below:



## Accessing Spark History Server

Step 1: Click on 'Spark History Server' Tab



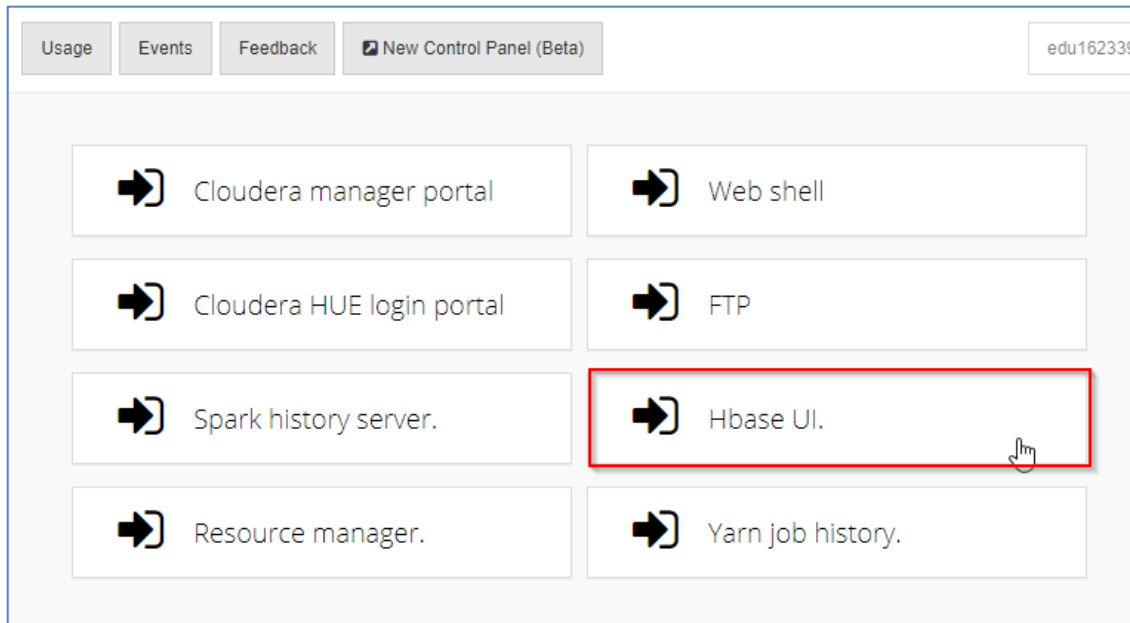
Step 2: The following screen appears:

<div> <div> <div>spark</div> <div>2.4.0-cdh6.2.1</div> </div> <div>History Server</div> </div> <div> <div>Event log directory: hdfs://nameservice1/user/spark/applicationHistory</div> <div>Last updated: 2021-07-03 19:05:23</div> <div>Client local time zone: Asia/Calcutta</div> </div> <div> <div>Show 20 entries</div> <div>Search:</div> </div>							
App ID	App Name	Started	Completed	Duration	Spark User	Last Updated	Event Log
application_1624783000485_0195	myApp	2021-07-02 15:14:01	2021-07-02 15:14:17	16 s	bigdta36id34	2021-07-02 15:14:17	<a href="#">Download</a>
application_1624783000485_0194	myApp	2021-07-02 14:57:03	2021-07-02 14:57:09	6 s	bigdta36id34	2021-07-02 14:57:09	<a href="#">Download</a>
application_1624783000485_0193	myApp	2021-07-02 14:51:41	2021-07-02 14:51:48	7 s	bigdta36id34	2021-07-02 14:51:48	<a href="#">Download</a>
application_1624783000485_0192	myApp	2021-07-02 14:32:23	2021-07-02 14:32:30	7 s	bigdta36id34	2021-07-02 14:32:30	<a href="#">Download</a>
application_1624783000485_0191	PySparkShell	2021-07-02 12:34:41	2021-07-02 12:35:33	52 s	bigdta36id34	2021-07-02 12:35:33	<a href="#">Download</a>
application_1624783000485_0190	Spark shell	2021-07-02 08:19:28	2021-07-02 12:30:36	4.2 h	tidbigdata06	2021-07-02 12:30:36	<a href="#">Download</a>
application_1624783000485_0184	Spark shell	2021-07-02 08:00:56	2021-07-02 08:15:36	15 min	tidbigdata01	2021-07-02 08:15:36	<a href="#">Download</a>
application_1624783000485_0185	Spark shell	2021-07-02 08:00:57	2021-07-02 08:15:35	15 min	tidbigdata012	2021-07-02 08:15:35	<a href="#">Download</a>
application_1624783000485_0183	Spark shell	2021-07-02 07:54:04	2021-07-02 08:15:31	21 min	tidbigdata06	2021-07-02 08:15:31	<a href="#">Download</a>
application_1624783000485_0129	Spark shell	2021-06-30 19:21:04	2021-06-30 20:21:40	1.0 h	tidbigdata025	2021-06-30 20:21:41	<a href="#">Download</a>
application_1624783000485_0131	PySparkShell	2021-06-30 20:01:57	2021-06-30 20:03:59	2.0 min	awsbdpythonpoc11	2021-06-30 20:03:59	<a href="#">Download</a>
application_1624783000485_0130	PySparkShell	2021-06-30 20:01:44	2021-06-30 20:03:12	1.5 min	awsbdpythonpoc	2021-06-30 20:03:13	<a href="#">Download</a>
application_1624783000485_0126	PySparkShell	2021-06-30 19:09:25	2021-06-30 19:10:27	1.0 min	tidbigdata025	2021-06-30 19:10:27	<a href="#">Download</a>
application_1624783000485_0125	Spark shell	2021-06-30 19:07:45	2021-06-30 19:09:18	1.5 min	tidbigdata025	2021-06-30 19:09:18	<a href="#">Download</a>

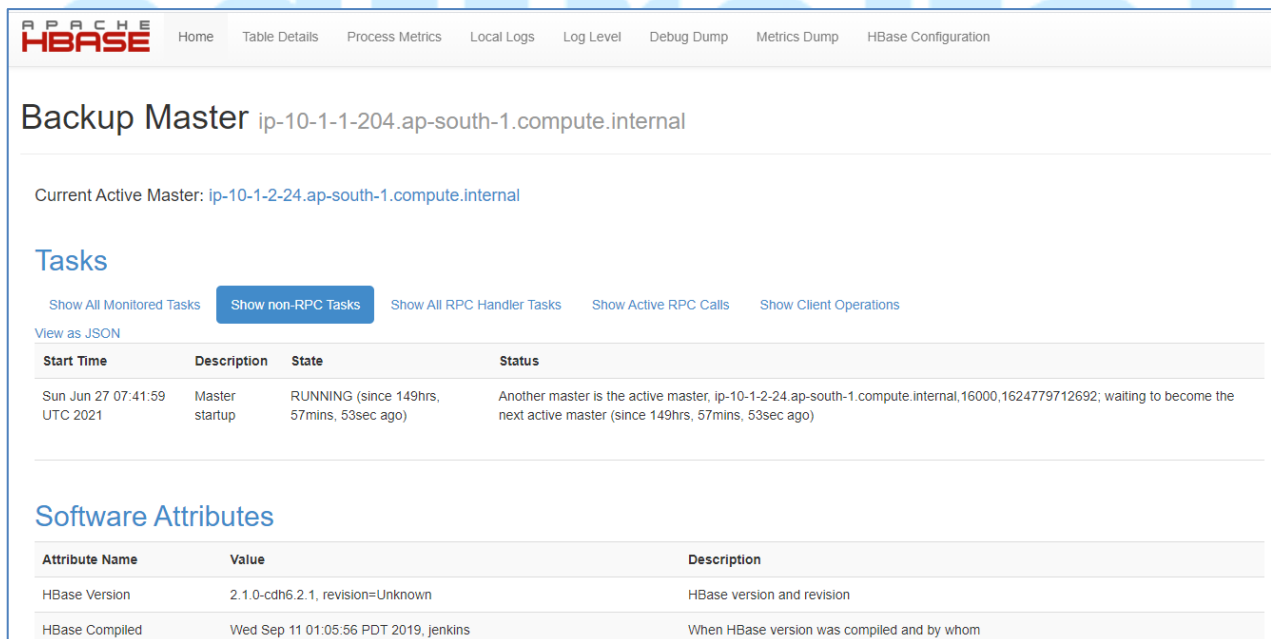


## Accessing Apache HBASE

Step 1: Click on 'Hbase UI' Tab from the service panel

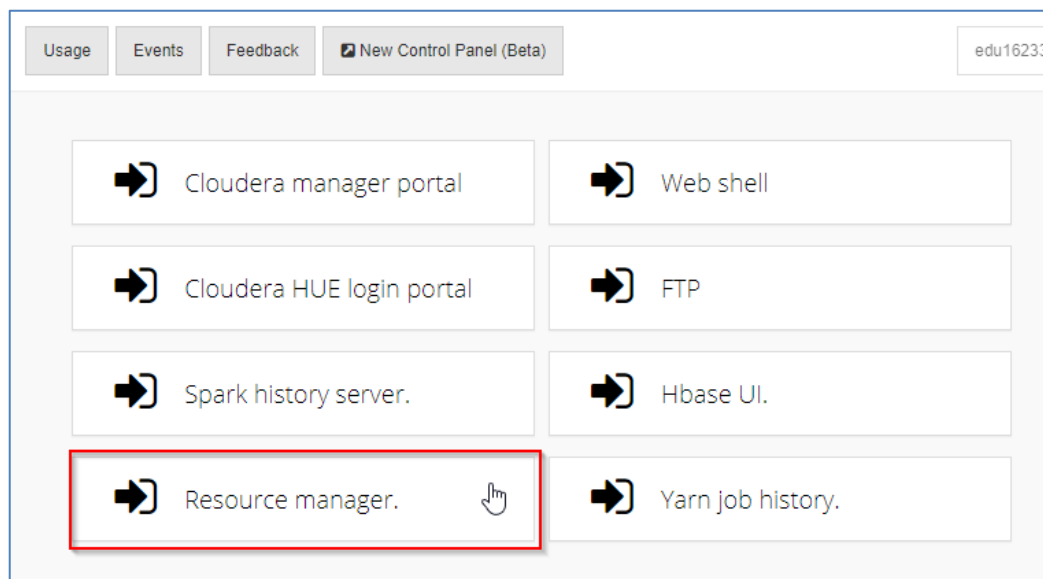


Your screen should appear as:



## Accessing Resource Manager

Step 1: Click on 'Resource Manager' Tab



Your screen should appear as shown:

The screenshot shows the Hadoop 'About the Cluster' page. The top left features the Hadoop logo and a sidebar with navigation links: 'Cluster' (selected), 'About', 'Nodes', 'Node Labels', 'Applications', 'NEW', 'NEW SAVING', 'SUBMITTED', 'ACCEPTED', 'RUNNING', 'FINISHED', 'FAILED', 'KILLED', 'Scheduler', and 'Tools'. The main content area is titled 'About the Cluster' and shows the user is logged in as 'dr.who'.

**Cluster Metrics**

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Memory Used	Memory Total	Memory Reserved	VCores Used	VCores Total	VCores Reserved
162	0	0	162	0	0 B	10 GB	0 B	0	5	0

**Cluster Nodes Metrics**

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes	Rebooted Nodes	Shutdown Nodes
5	0	0	0	0	0	0

**User Metrics for dr.who**

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Containers Pending	Containers Reserved	Memory Used	Memory Pending	Memory Reserved	VCores Used	VCores Pending	VCores Reserved
0	0	0	0	0	0	0	0 B	0 B	0 B	0	0	0

**Scheduler Metrics**

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation	Maximum Cluster Application Priority
Fair Scheduler	[memory-mb (unit=Mi), vcores]	<memory:1024, vCores:1>	<memory:2048, vCores:1>	0

**Cluster overview**

- Cluster ID:** 1624783000485
- ResourceManager state:** STARTED
- ResourceManager HA state:** active
- ResourceManager HA zookeeper connection state:** Could not find leader elector. Verify both HA and automatic failover are enabled.
- ResourceManager RMStateStore:** org.apache.hadoop.yarn.server.resourcemanager.recovery.NullRMStateStore
- ResourceManager started on:** Sun Jun 27 08:36:40 +0000 2021
- ResourceManager version:** 3.0.0-cdh6.2.1 from 7ce7dcd76fd7f700cd7749bbc6390f76ff2abae by jenkins source checksum bdea11f98ce3d056d6c170c883b73569 on 2019-09-11T08:07Z
- Hadoop version:** 3.0.0-cdh6.2.1 from 7ce7dcd76fd7f700cd7749bbc6390f76ff2abae by jenkins source checksum b6cc25ff15ff575f159489abee34c5 on 2019-09-11T08:04Z

## Accessing Yarn

Step 1: Click on 'Yarn Job History' Tab

Usage
Events
Feedback
New Control Panel (Beta)
edu162339

➡ Cloudera manager portal

➡ Web shell

➡ Cloudera HUE login portal

➡ FTP


➡ Spark history server.

➡ Hbase UI.

➡ Resource manager.

➡ Yarn job history.

Your screen should appear as shown:



# JobHistory

Application
Retired Jobs

Show 20 entries

Submit Time	Start Time	Finish Time	Job ID	Name	User	Queue	State	Maps Total	Maps Completed
2021.07.02 02:47:52 UTC	2021.07.02 02:48:00 UTC	2021.07.02 02:48:07 UTC	job_1624783000485_0189	select product_name, product_price, prod...	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.07.02 01:59:42 UTC	2021.07.02 01:59:50 UTC	2021.07.02 02:00:01 UTC	job_1624783000485_0182	insert into nysedaily select *...nysedaily (St	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.07.02 01:56:11 UTC	2021.07.02 01:56:19 UTC	2021.07.02 01:56:27 UTC	job_1624783000485_0181	select author    '-'    tit...jso	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.07.02 01:32:08 UTC	2021.07.02 01:32:16 UTC	2021.07.02 01:33:58 UTC	job_1624783000485_0180	INSERT INTO TABLE nysedaily_buck...nysedaily (St	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.06.30 02:54:28 UTC	2021.06.30 02:54:35 UTC	2021.06.30 02:54:47 UTC	job_1624783000485_0121	INSERT OVERWRITE TABLE NYSEdaily...nysedaily (St	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.06.30 02:48:45 UTC	2021.06.30 02:48:53 UTC	2021.06.30 02:49:01 UTC	job_1624783000485_0120	select *, substr(stock_date,length(stoc...	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.06.30 02:06:45 UTC	2021.06.30 02:06:53 UTC	2021.06.30 02:07:02 UTC	job_1624783000485_0119	create table nyseoutp...tock_price_close>=20	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.06.30 02:04:38 UTC	2021.06.30 02:04:47 UTC	2021.06.30 02:04:56 UTC	job_1624783000485_0118	insert overwrite dire...tock_price_close>=20	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1
2021.06.30 02:04:38 UTC	2021.06.30 02:04:47 UTC	2021.06.30 02:04:56 UTC	job_1624783000485_0117	insert overwrite	bigdta36id18	root.users.bigdta36id18	SUCCEEDED	1	1

## Additional Information:

Hadoop Version - 3.0.0+cdh6.2.1

Hive Version - 2.1.1+cdh6.2.1

HBase Version - 2.1.0+cdh6.2.1

Flume NG Version - 1.9.0+cdh6.2.1

Sqoop Version - 1.4.7+cdh6.2.1

Spark Version - 2.4.0+cdh6.2.1

Oozie Version - 5.1.0+cdh6.2.1

Zookeeper Version - 3.4.5+cdh6.2.1

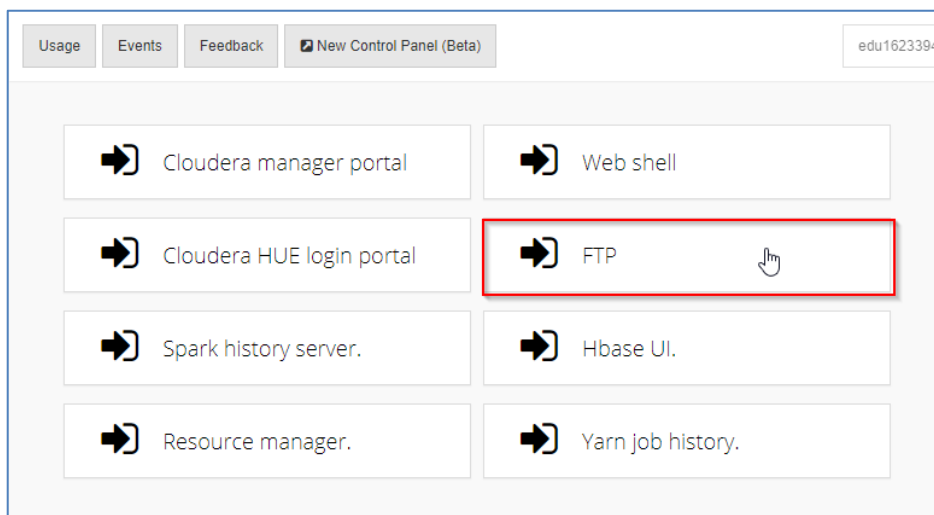
Pig Version - 0.17.0+cdh6.2.1

Kafka Version - 2.1.0+cdh6.2.1

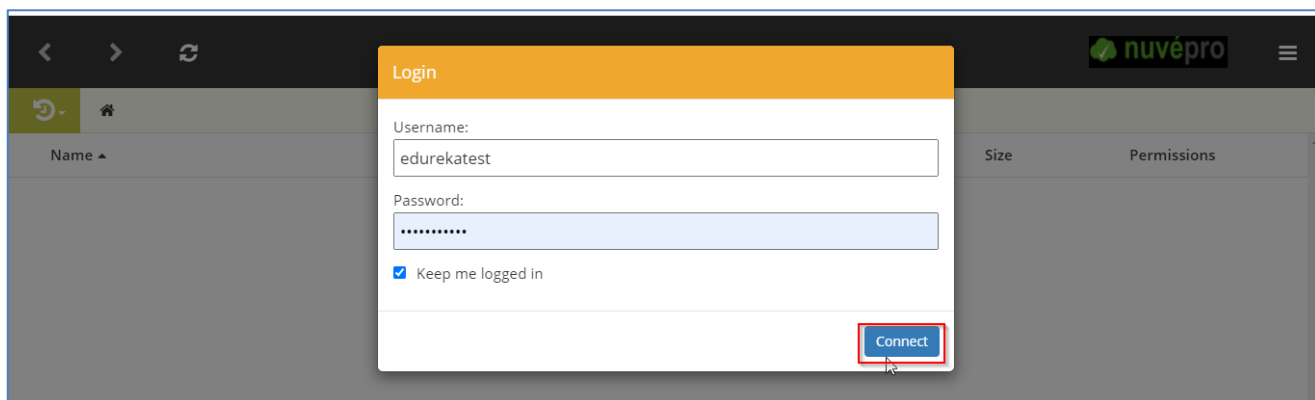
Java 8 version "1.8.0\_181" Java(TM) SE Runtime Environment (build 1.8.0\_181-b13) Java HotSpot(TM) 64-Bit Server VM (build 25.181-b13, mixed mode)

## Uploading File from Local Machine to Edge Node

Step 1: Login to FTP Server at <https://bigdata.cloudlabs.edureka.co/ftp/> using the credential provided in your LMS.



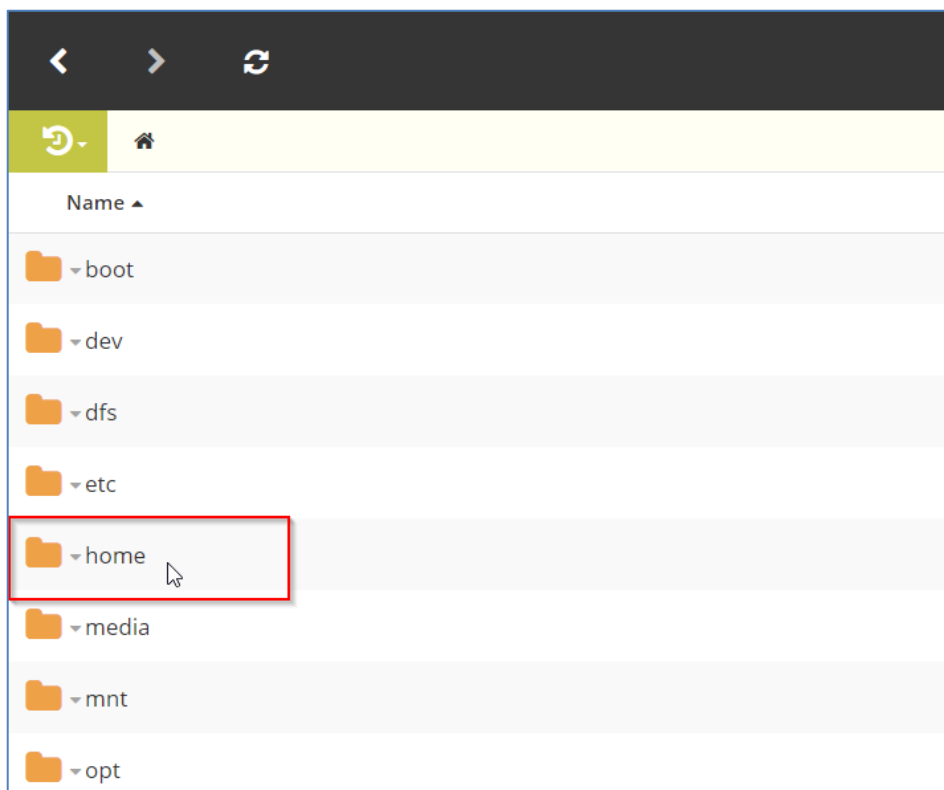
Step 2: Enter the username and password provided and click on Connect.



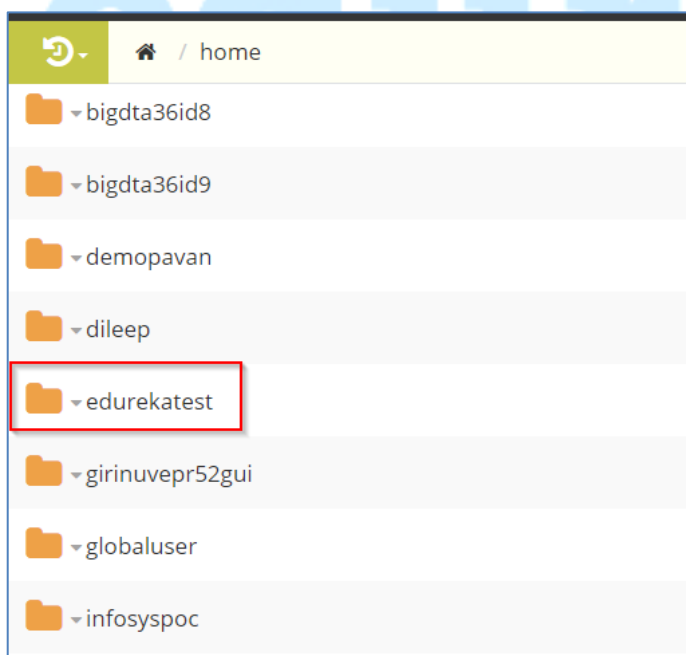
Step 3: Your screen should appear as shown below.



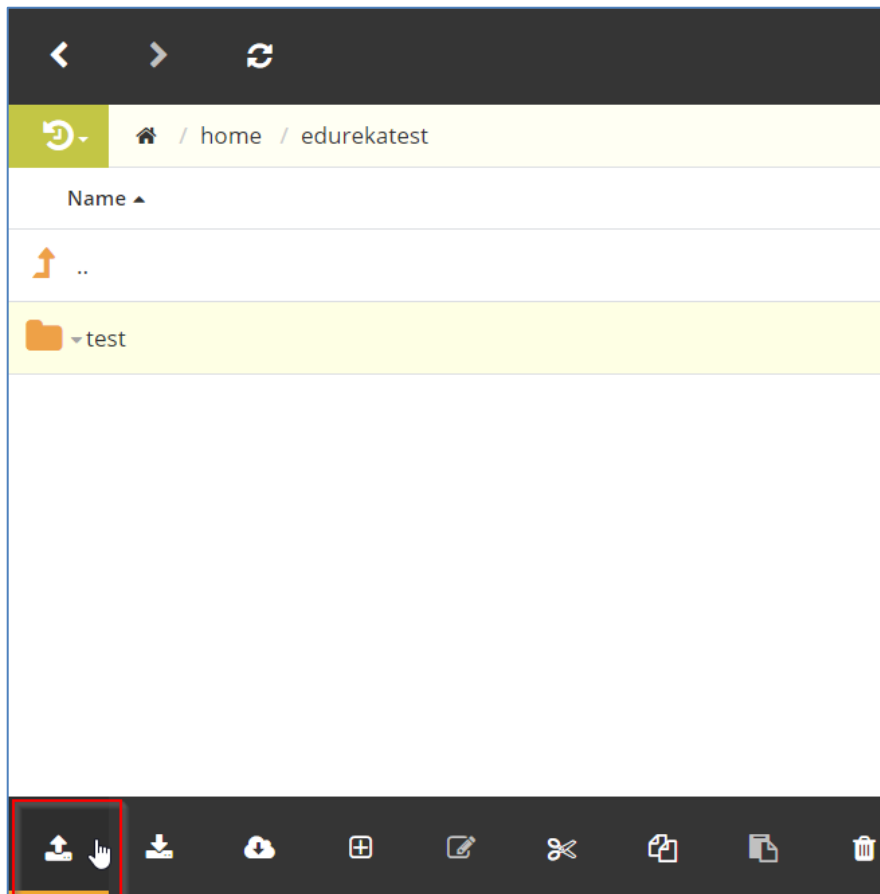
Step 4: Go to the home directory as shown



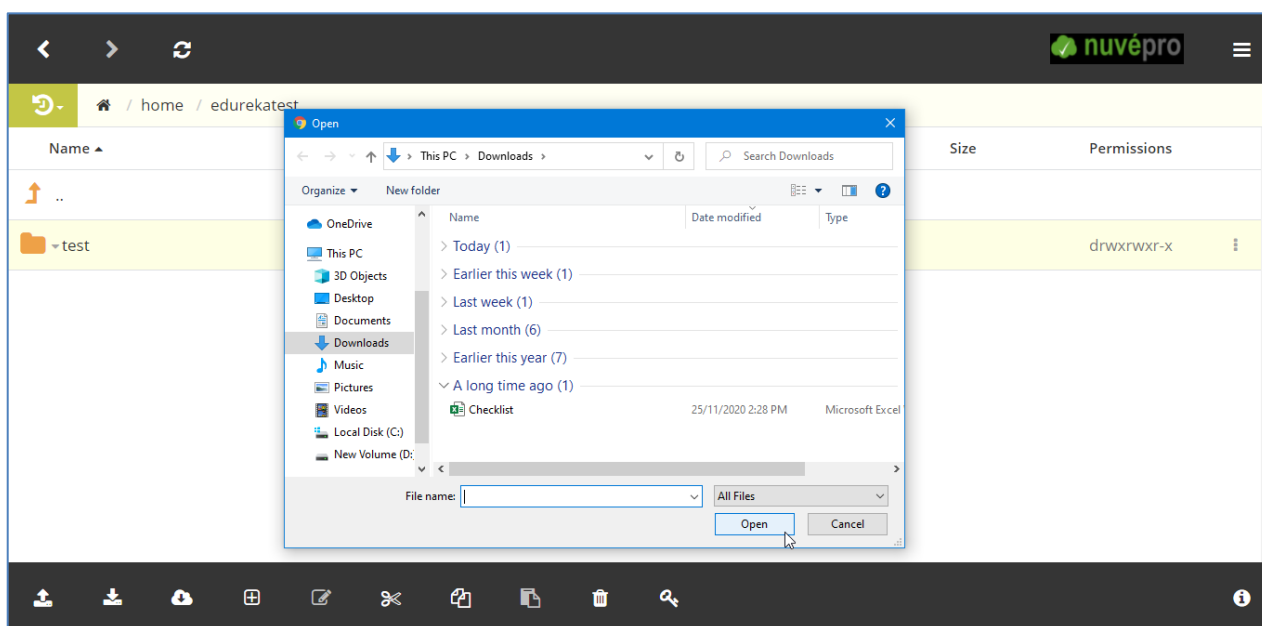
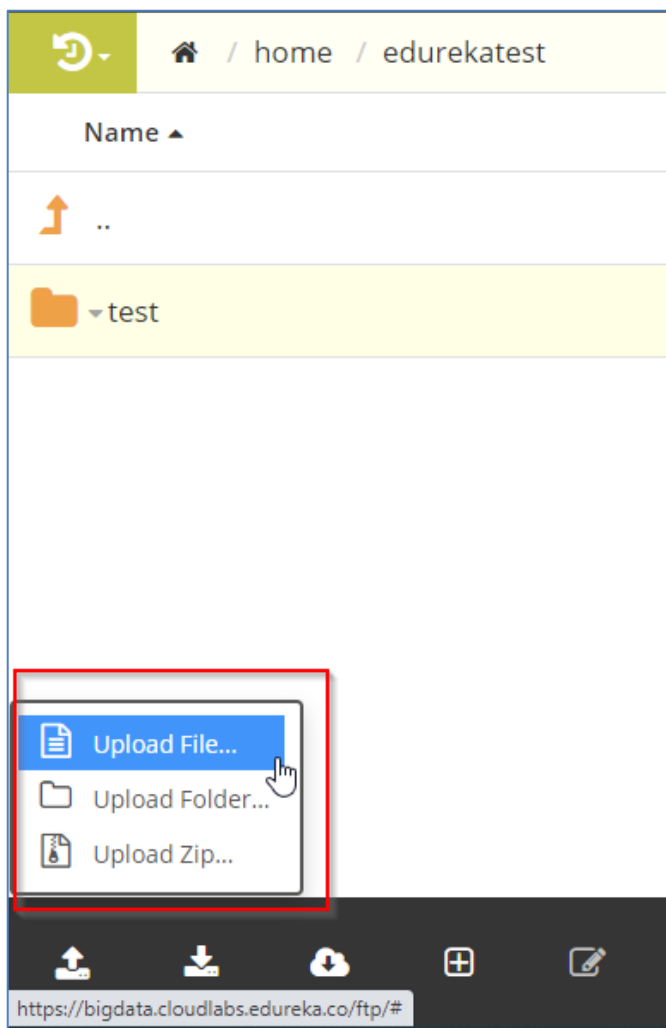
Step 6: Search for your username from the list of directories. Here the username is 'edureka!'



Step 7: Click on the upload tab at the bottom of the screen



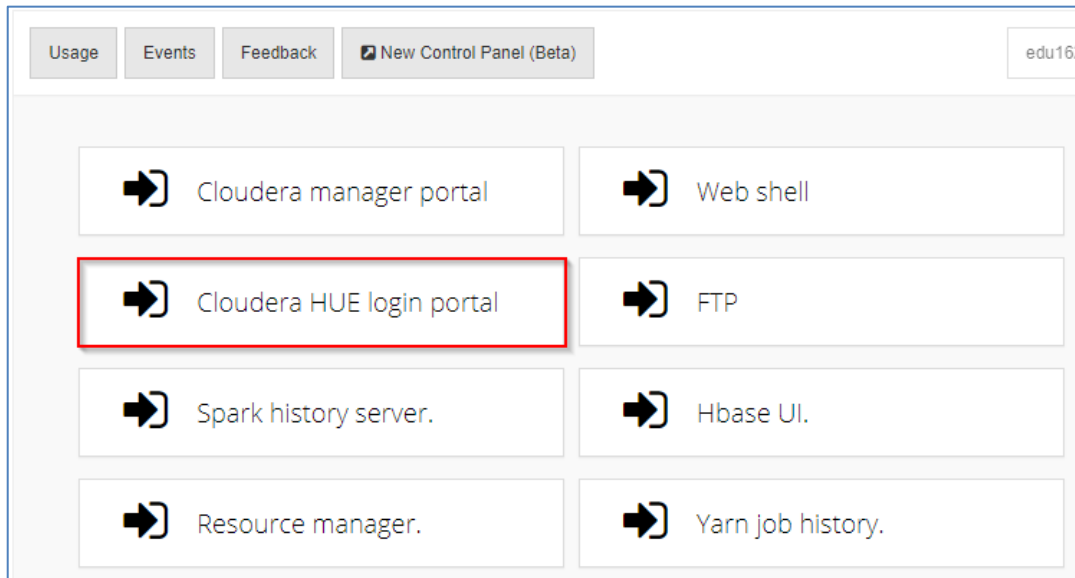
Step 8: Browse to the required directory and select the file(s) to upload.



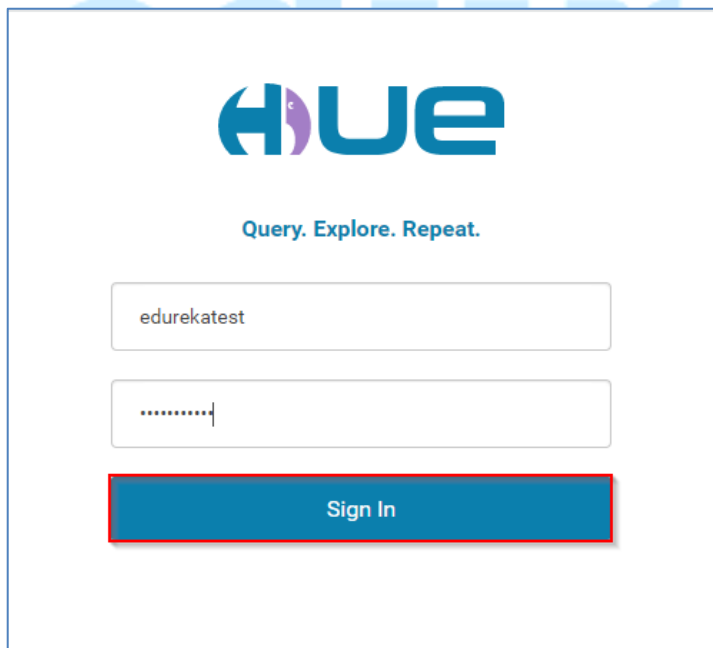


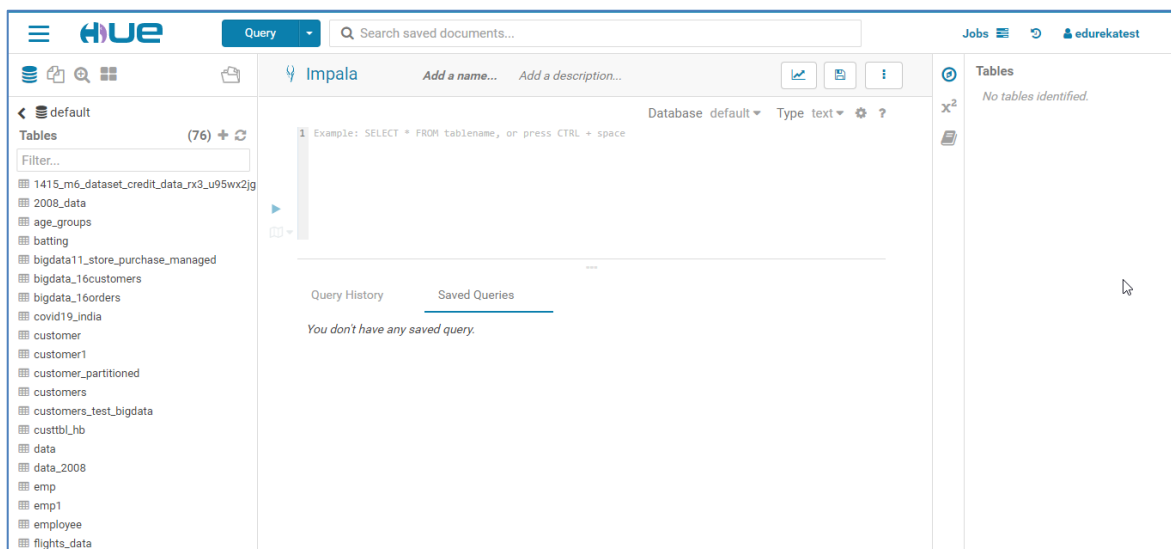
## Uploading File in HDFS using Hue

Step 1: Click on My Lab tab and use the credentials provided here to login to Hue.

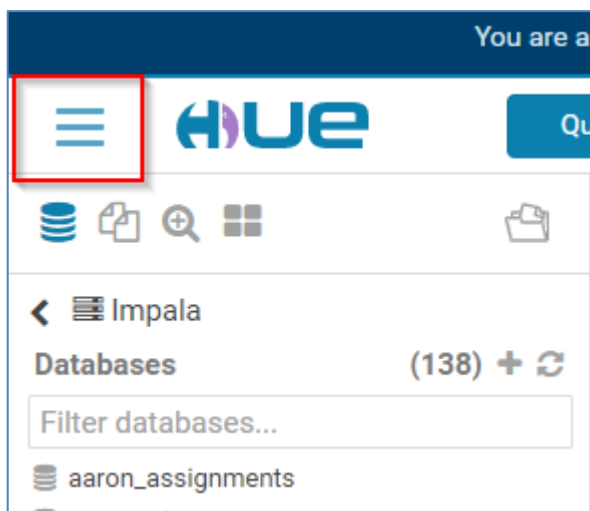


Step 2: Enter the username and password provided and click on Sign In. Your screen should appear as shown below:

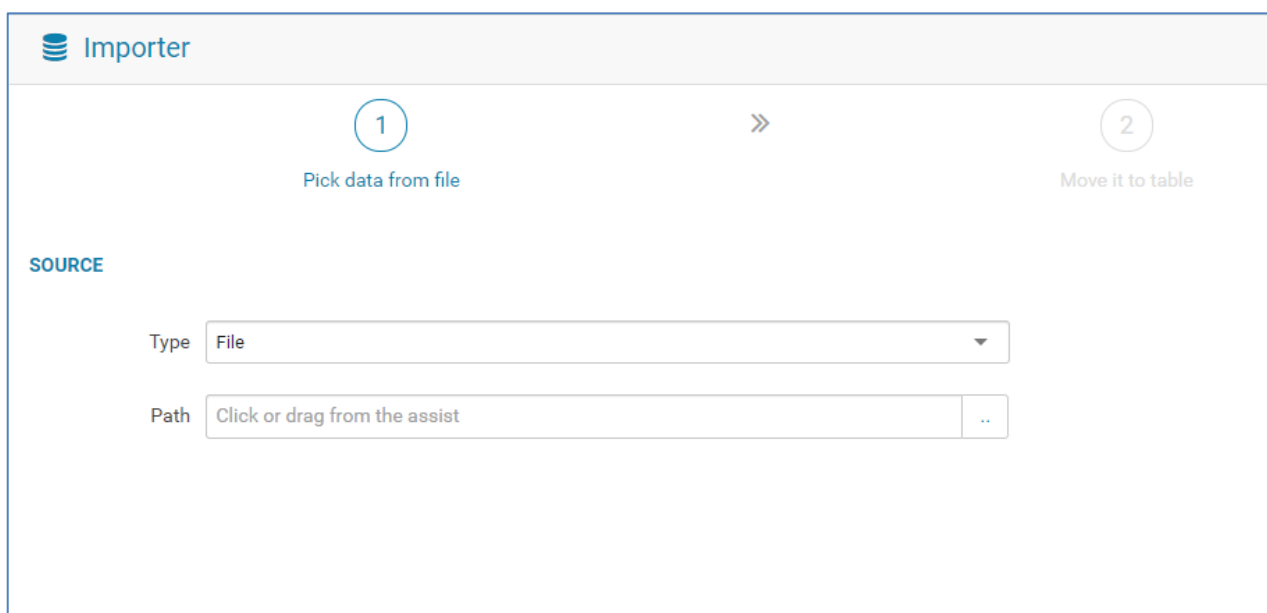
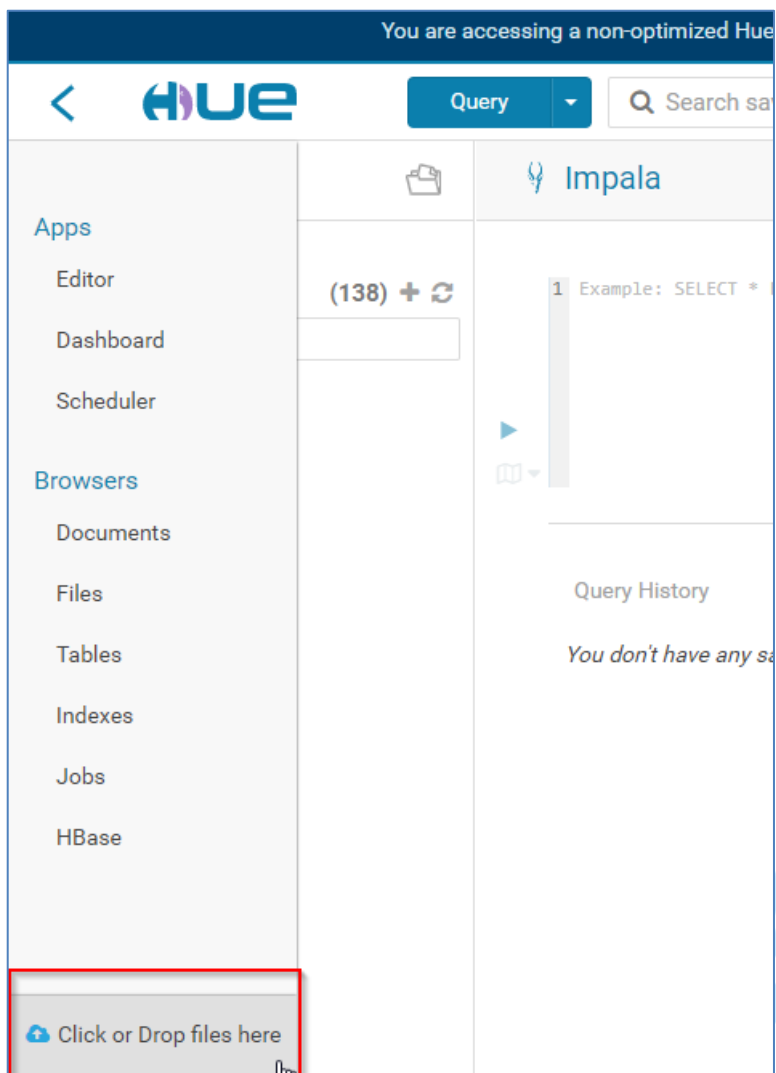




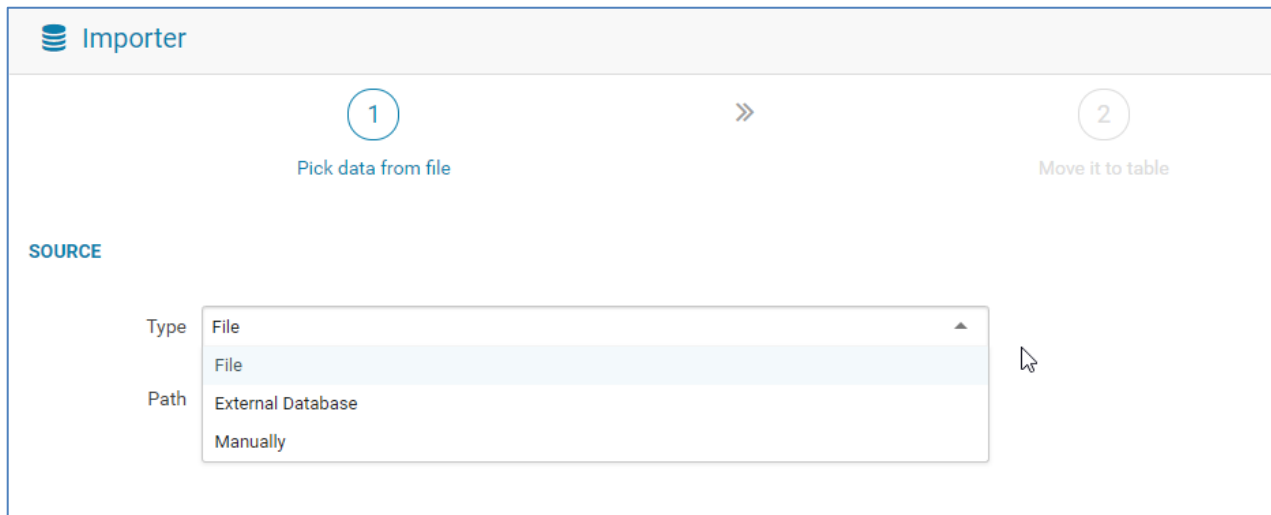
Step 3: Once you login to Hue, click on the three bars in the left panel.



You will see an option to drop files. Your screen will appear as shown below:



Step 4: Select the type of upload by clicking on the dropdown as shown.



**Importer**

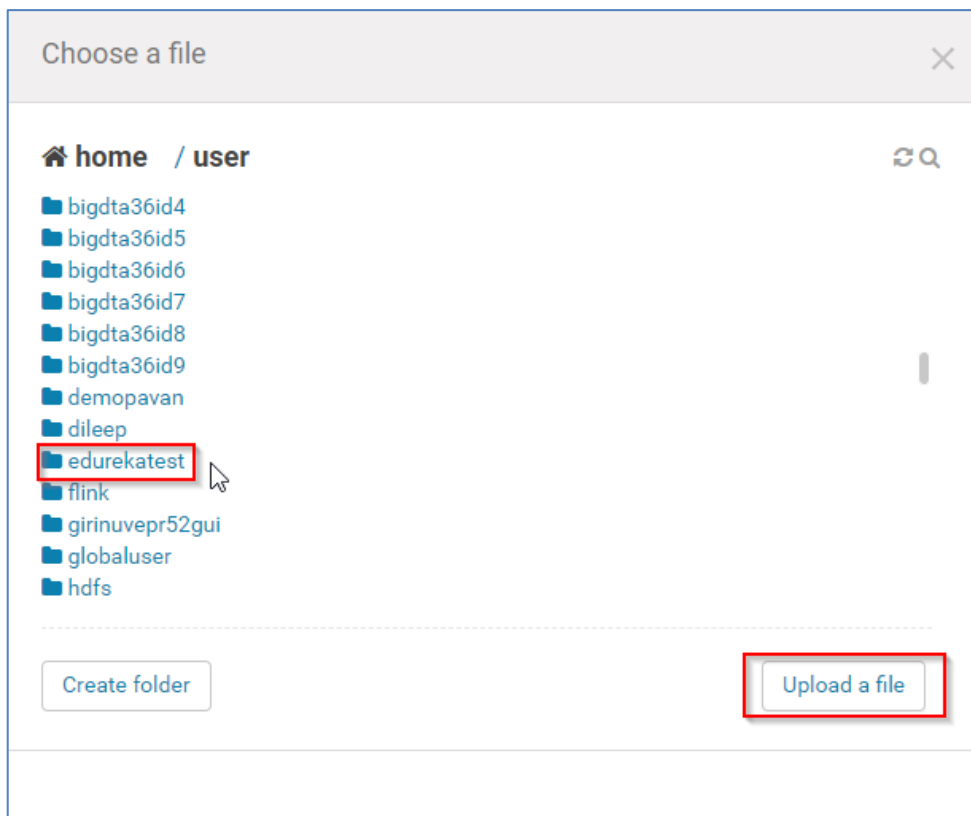
1 Pick data from file      »      2 Move it to table

**SOURCE**

Type: File

Path: File, External Database, Manually

Step 5: Select the Path. Search your username from the list of directories to upload your file.



Choose a file

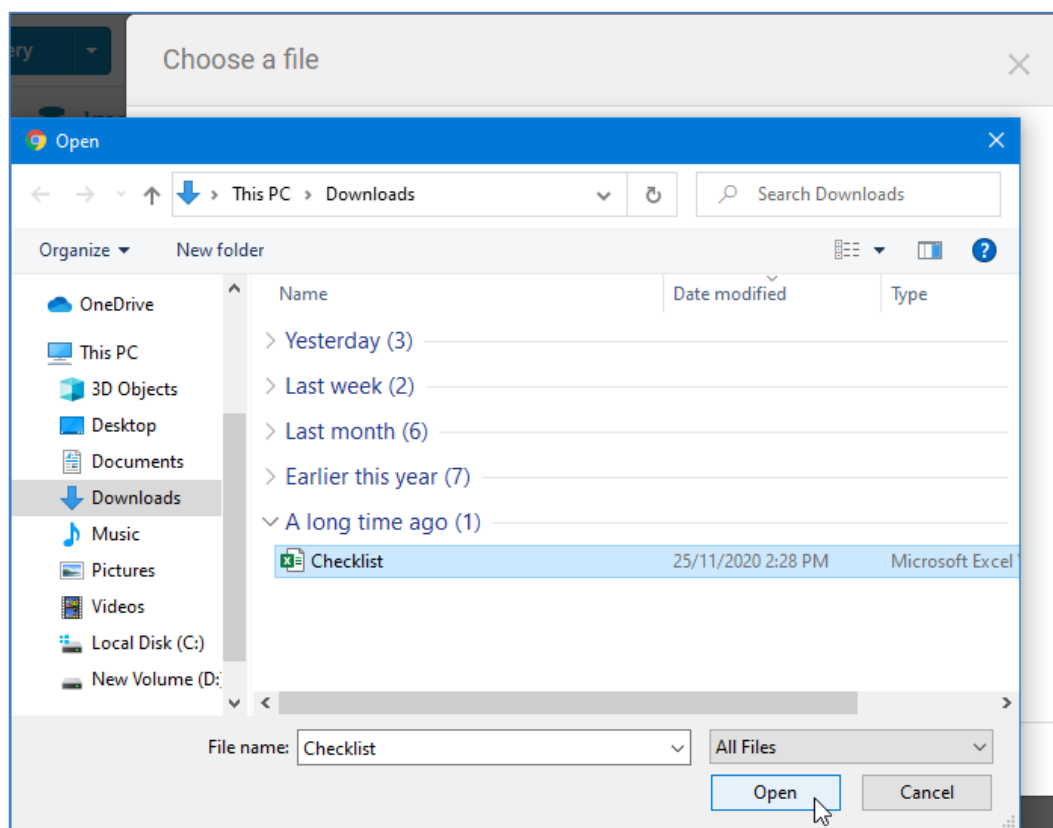
home / user

- bigdta36id4
- bigdta36id5
- bigdta36id6
- bigdta36id7
- bigdta36id8
- bigdta36id9
- demopavan
- dileep
- edurekatest**
- flink
- girinuvepr52gui
- globaluser
- hdfs

Create folder      Upload a file

Here the username is 'edurekatest'

You can click on Upload a File option to upload the file in HDFS.



edureka!