

## — Spark Development Environments :

Spark projects are developed and deployed on two kinds of environments:

### 1] Cloud Platforms

- Notebook , • Databricks cloud

### 2] ON-premise Platforms

- Python IDE , • Cloudera Platform

- If your project is going in cloud, you should prefer Notebook, And on-premise project prefers to use Python IDE.

- Databricks cloud environment is standard approach for developing and deploying Spark applications in a cloud environment.

- But if your project is designed for On-premise environment, you may have a cloudera Hadoop cluster.

So, the point is :

1] We use Databricks Notebook environment for cloud-based Spark development projects

2] And we use a local Development Environment and IDE for on-premise projects.

## Setup your Databricks Community Cloud Environment:

Start your browser, type - try databricks



click link for try databricks for free



Sign up for account



Select Databricks  
community Edition

## Introduction to Databricks Workspace:

Q) How to create Spark project in Databricks workspace?

⇒ Go to Workspace Menu (It allows you to create project directories)



Go in user's Workspace, there in your user name, create your project directory



Now after creating folder, create new notebook (code file)

Now, in notebook write your code.

Q] How you run your spark code?

⇒ Notebook is a browser based IDE. For executing this code we need a CPU/a machine.

Spark program executes on a cluster of machines. So, for executing this we need a clustered machines.

Where is that cluster?

⇒ Data bricks gives you a one single node cluster facility in community edition.

Go to Compute Menu



Click on Create Compute  
Button

(In the background, it will go & create one virtual machine in the AWS cloud.)

Now, once your cluster is created, you can attach your notebook to the cluster and start running your code. How to do this?

Go to the notebook, in which you have written your code



Click on Connect button on  
the upper right corner



cluster and

Select your device —  
connect your notebook to it.