Software Installation & Setup

**Create a bootcamp directory in C or D drive ( C:\bootcamp)**

1. Download JDK 1.8 + from software center
2. Download IntelliJ IDEA from the below location (community edition) <https://www.jetbrains.com/idea/download/#section=windows>
3. Download Zookeeper from the below location.

<http://www-us.apache.org/dist/zookeeper/stable/>

1. Download kafka from the below location.

<https://www.apache.org/dyn/closer.cgi?path=/kafka/1.1.0/kafka_2.11-1.1.0.tgz>

1. Download Spark from the below location.

<https://www.apache.org/dyn/closer.lua/spark/spark-2.2.1/spark-2.2.1-bin-hadoop2.7.tgz>

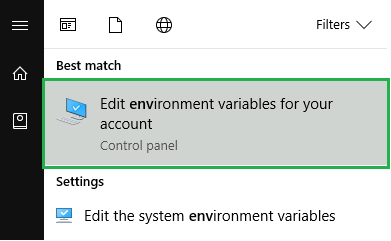
1. Download Mobaxterm from the below location.

<https://mobaxterm.mobatek.net/download-home-edition.html> (portable edition)

**Extract all the downloaded softwares** in **c:\bootcamp** directory

1. Now we need to set the environment variables. **It does not need admin privileges.**

**Press windows symbol and type “env” (For windows OS)**

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1. Set the below environment variables.

**JAVA\_HOME - C:\Program Files\Java\jdk1.8.0\_151**

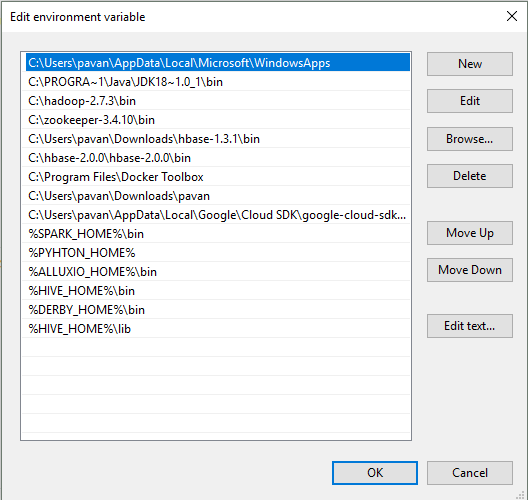
**ZOOKEEPER\_HOME - C:\bootcamp\zookeeper-3.4.10**

**KAFKA\_HOME - C:\bootcamp\kafka\_2.11-1.0.0**

**SPARK\_HOME - C:\bootcamp\spark-2.2.0-bin-hadoop2.6**

1. **Set the above variables in the PATH env variable from your account.**

**Ex:**

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1. **Setup zookeeper:**

Go to zookeeper installation folder : C:\bootcamp\zookeeper-3.4.10\**conf**

1. Rename the **zoo\_sample.cfg** to **zoo.cfg**.
2. Open the zoo.cfg folder the edit the **dataDir** path like below

dataDir=C:/bootcamp/zookeeper-3.4.10/data(“/” is important)

1. Create the data folder in C:/bootcamp/zookeeper-3.4.10
2. Open the command prompt and type “zkserver” and hit enter.
3. Your zookeeper server should start.
4. **Setup Kafka:**

Go to Kafka installation folder : c:\bootcamp\kafka\_2.11-1.0.0\config

1. Open the **server.properties**
2. Update the log.dirs path as below

log.dirs=C:/bootcamp/kafka\_2.11-1.0.0/logs

1. No need to create the logs folder. It will create automatically
2. Open command prompt and go to kafka installation folder.
3. Run the below command to execute
4. **.\bin\windows\kafka-server-start.bat .\config\server.properties**
5. Your kafka server should start

1. **Setup Spark:**
2. Open command prompt and run the below command.

**Spark-shell**

1. Your spark shell should start successfully.

1. **Mobaxterm setup:**

Please first connect to Bastion host with the below details.

**First connection:**

Bastion Host: 10.92.202.135

Username: cst-user

Password: C2Eaws2018#

**Second connection:**

Username: ec2-user

Password: attached key

IP Address:

1. **10.115.76.9**
2. 10.115.76.83
3. 10.115.76.236

Bootcamp-key.pem file and image references has been already sent email. Please check and follow the same

steps to connect to EC2 instances.

1. **Mac Users to connect to VM**

ssh cst-user@10.92.202.135

**AWS SERVER:**

ssh -i /User/bootcamp-key.pem ec2-user@10.115.76.9

pwd:

**copy file from local to EC2:-**

on local terminal : scp /Users/Desktop/PG/bootcamp-key.pem cst-user@10.92.202.135:~/. (can be done using filezilla)

on jumphost machine : scp -i bootcamp-key.pem anyFile ec2-user@10.115.76.9:~/.

1. **Maven setup in IntelliJ:**

Create **settings.xml** by following the below steps.

1. Open IntelliJ and create a maven project.

2. Right click on Project and choose “Maven” and select “Create settings.xml”

3. Copy the below content in the settings.xml

**<proxies>**

**<proxy>**

**<id>optional</id>**

**<active>true</active>**

**<protocol>https</protocol>**

**<username>your 1BankID</username>**

**<password>Your 1Bank Password</password>**

**<host>bcproxy.sgp.dbs.com</host>**

**<port>8080</port>**

**</proxy>**

**</proxies>**

4. Save the above content and close the settings.xml

5. Choose the “auto Import” when it pop-up (optional)