

Usage instructions:

Launch the product via 1-click. Please wait until the instance passes <u>all</u> status checks and is running. You can connect using your Amazon private key and 'ubuntu' login via SSH client.

- To update software, use: sudo apt update and sudo apt upgrade
 - 1. To connect to Scala, run the following command:

scala

2. Next run a test. Once inside the scala>(prompt) use:

println("Testing Scala")

You should get the following output:

Testing Scala

3. Press CTRL+D to exit from the Scala shell.

To verify Spark Installation, at the **ubuntu prompt** use the following command:

spark-shell

You should see the following output:

Starting Spark

To start Apache Spark run:

start-master.sh

• To start the Apache Spark Worker service, use the following command:

start-worker.sh spark://your-public-instance-ip:7077

For ex: start-worker.sh spark://18.206.146.251:7077

Open your web browser and access the Apache Spark master node using your instance Public IPv4 address.

For ex: http://323.325.6:8080



If you want to stop the Apache Spark, run the following command:

stop-master.sh sudo systemctl status spark-master sudo systemctl status spark-worker

AWS Data

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized keys & /home/ubuntu/.ssh/authorized keys
- Monitor the health:
 - o Navigate to your Amazon EC2 console and verify that you're in the correct region.
 - o Choose Instance and select your launched instance.
 - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

- 1. Select ELASTIC IPs.
- 2. Click on the ALLOCATE ELASTIC IP ADDRESS.
- 3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
- 4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
- 5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
- 6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
- 7. Your instance now has an elastic IP associated with it.
- 8. For additional help: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html