Exercise 1 – Install and Start Apache Cassandra™

In this exercise, you will:

- SSH into your cloud instance using the IP provided by your instructor
- In root directory, find and install DataStax Enterprise from a tarball instance
- Start DataStax Enterprise and verify that it is running with `nodetool`

To do the remaining exercises, you must complete this one successfully. If you have any questions, alert your instructor.

Steps

If you are taking this course in a class environment, your instructor will assign you and IP address of a cloud instance you will SSH into.

1) SSH to the cloud instance provided using the IP address provided to you by the instructor.

   ```
   ssh -i your-key-file-name ubuntu@<student ip>
   ```

2) In your home directory, list the contents and notice the presence of `dse-6.0.0-bin.tar.gz`. For this course, we will install DataStax Enterprise by extracting it locally. Do so by running the following command:

   ```
   tar -xf dse-6.0.0-bin.tar.gz
   ```

3) List the contents of the directory again. You now have a `dse-6.0.0/` directory. Rename this directory to node/ by executing the following command:

   ```
   mv dse-6.0.0 node
   ```

4) We have a simple auto-configuration script for you to tweak some values so that we can run Apache Cassandra™ multiple times on the same virtual machine instance. Run the script like so:

   ```
   labwork/config_node
   ```

5) CD into the directory with DataStax Enterprise by running:

   ```
   cd node/bin
   ```

6) Start DataStax Enterprise (and thus, Apache Cassandra™) from here by running:

```
./dse cassandra
```

DataStax Enterprise might take a few minutes to start up! Be patient. You may need to hit enter to get back a prompt.

7) To check to see if DataStax Enterprise has started, run the following:

```
./dsetool status
```

If it started up properly, you will see something like:

```
DC: Cassandra          Workload: Cassandra         Graph: no
======================================================
Status=Up/Down
|/ State=Normal/Leaving/Joining/Moving
--   Address    Load          Owns  Token  Rack   Health [0,1]
UN   127.0.0.1  109.61 KiB  ?     0        rack1  0.10
```

8) Leave it up and running for the next exercise. Congrats! You installed and started DataStax Enterprise.