

Exercise 1 – Install and Start Apache Cassandra™

In this exercise, you will:

- Access the command line in your exercise environment
- In the root directory, find and install DataStax Enterprise from a tarball instance
- Start DataStax Enterprise and verify that it is running with `dsetool`

To do the remaining exercises, you must complete this one successfully.

Steps

- 1)
 - a. If you are doing these exercises from a virtual machine, click on the **Terminal** icon to start a terminal window.



- b. If you have started up an AWS EC2 instance to do exercises, SSH to the instance using its assigned IP address.

```
ssh -i your-key-file-name ubuntu@<your EC2 ip address>
```

You should now be in a Linux shell in your home directory, which may look like:

```
ubuntu@ds201-node1:~$
```

- 2) In your home directory, list the contents with the command `ls` 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.