

1. Created 3 instances on AWS and check if they are in running state

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public
	i-00350c3531c543dad	t2.micro	us-east-2c	stopped		None	
	i-035b04ac014452a55	t2.micro	us-east-2c	stopped		None	
Dockerapp-env	i-04f1d0b047f73347b	t2.micro	us-east-2b	terminated		None	
myAws	i-05851d73a3e15f4cd	t2.micro	us-east-2c	running	2/2 checks passed	None	ec2-13-
Dockerapp-env	i-08b344f903c6a0696	t2.micro	us-east-2b	terminated		None	
	i-08f3e78d27eb0cb15	t2.micro	us-east-2b	stopped		None	
myAws	i-08f3e78d27eb0cb15	t2.micro	us-east-2c	running	2/2 checks passed	None	ec2-18-
	i-0a26ef8d08180bb3a	t2.micro	us-east-2b	stopped		None	
	i-0bd24af20d080f0ad	t2.micro	us-east-2b	stopped		None	
	i-0ce68d6ce54431209	t2.micro	us-east-2c	stopped		None	
myAws	i-0d9348ef6d875d6df	t2.micro	us-east-2c	running	2/2 checks passed	None	ec2-18-

2. You can start 3 instances on your Terminal/Command prompt. Following are the commands:

- Permission to your .pem file: `chmod 400` (permissions for read)
- Start your instance: `ssh ec2-user@<public_ip> -i <.pem file>` (**Note:** All unix commands are in the respective instance files.)

3. Once you have that, download Cassandra on all three servers.

4. Execute the following commands to get your Cassandra installed on all the instances that are created by you.

- `sudo yum install java-1.8.0-openjdk.x86_64`
- `sudo yum install wget`
- `wget https://www-eu.apache.org/dist/cassandra/3.11.3/apache-cassandra-3.11.3-bin.tar.gz` (**Note:** This is the latest Apache Cassandra version)
- `sudo yum install net-tools`

5. In order to make cluster we need to make changes in the configuration file called **cassandra.yaml**

6. Unzip Cassandra:

- `tar -xzf apache-cassandra-3.11.3-bin.tar.gz`
- `cd apache-cassandra-3.11.3`
- `cd conf`

7. You can get the IP address from your instances created on AWS under IPv4 Public IP section. Open **cassandra.yaml** in VIM and change the following things:

- `seeds: IP_ADDRESS` (Replace localhost or “127.0.0.1” and leave everything else same.)
- `listen_address: IP_ADDRESS`
- `start_rpc: true`
- `rpc_address: IP_ADDRESS`

8. Start Cassandra on one server, using the following command:

- `cd ~/apache-cassandra-3.11.3/bin`

- ./cassandra
9. Now, on other two machines, we need one more change in the config file to point to this server.
 - seeds: IP_ADDRESS of previously started server (previously we replaced the localhost with server IP)
 10. Start Cassandra like you did on the other server.
 11. Check with command “nodetool status”. This will display all the nodes that are up and running on the Cluster.