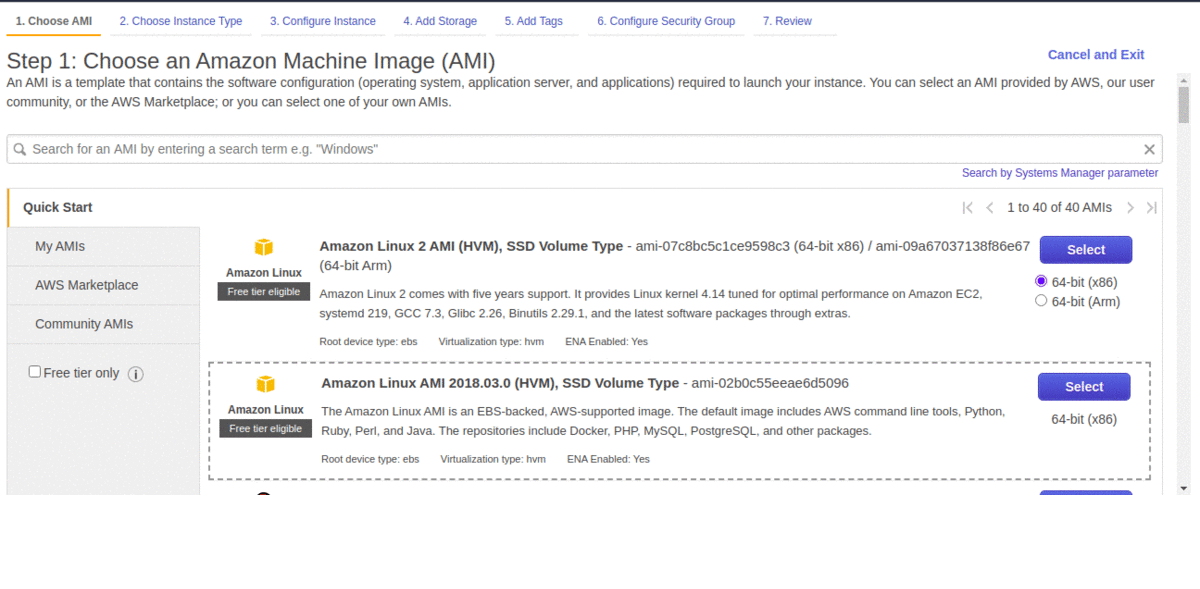
**Deploying Multi Node Cassandra Cluster on AWS**

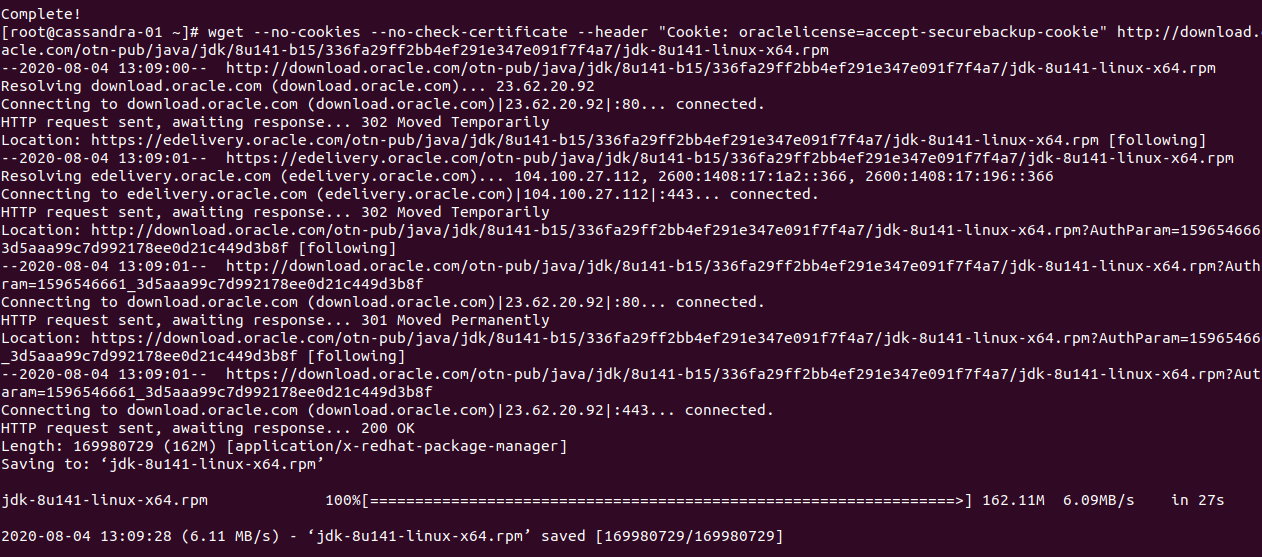
Apache Cassandra is a free and open-source NoSQL database management system. It is designed to handle large amount of data and providing high availablility with no single point of failure. You can say i.e. Cassandra is a combination of features of Amazon Dynamo and Google Bigtable. Follow the following steps for creation of Cassandra three node cluster.

**Step 1:** Launch 3 EC2 instances of Amazon Linux AMI 2018.03.0 with same avalibility zones. You must open 7000,7001,7199,9042,9160 ports in configure security group of instance creation. Refer following gif file for this step



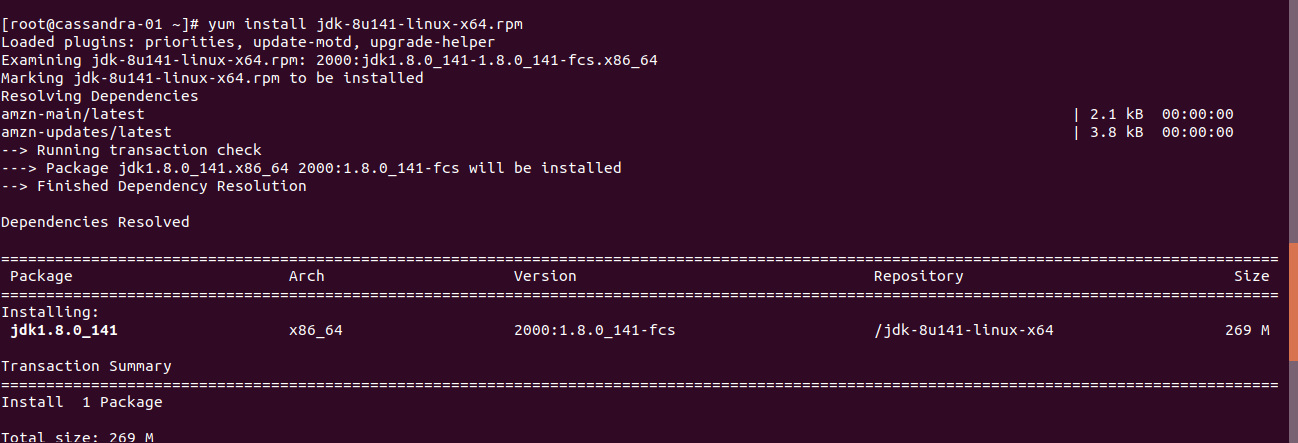
**Step 2:** Now install JDK8 in each of the three instances. You can refer following link for downloading jdk8. Then just press command given below the link.

wget --no-cookies --no-check-certificate --header "Cookie: oraclelicense=accept-securebackup-cookie" <http://download.oracle.com/otn-pub/java/jdk/8u141-b15/336fa29ff2bb4ef291e347e091f7f4a7/jdk-8u141-linux-x64.rpm>



**command :** yum localinstall jkd-8u141-linux-x64.rpm

Refer the following screenshot for above command.



**Step 3:** In this step we are going to install Apache Cassandra 3.11.x . Create a repo file at /etc/yum.repos.d/cassandra.yaml and paste the following repo details to it and then save and exit the repo file. Then just hit the command given below the repo details.

**Command :** vi etc/yum.repos.d/cassandra.repo



[cassandra]

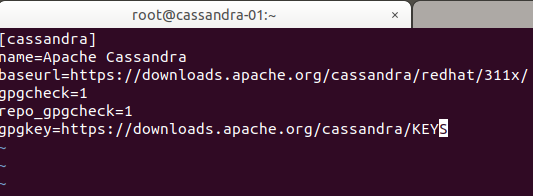
name=Apache Cassandra

baseurl=https://downloads.apache.org/cassandra/redhat/311x/

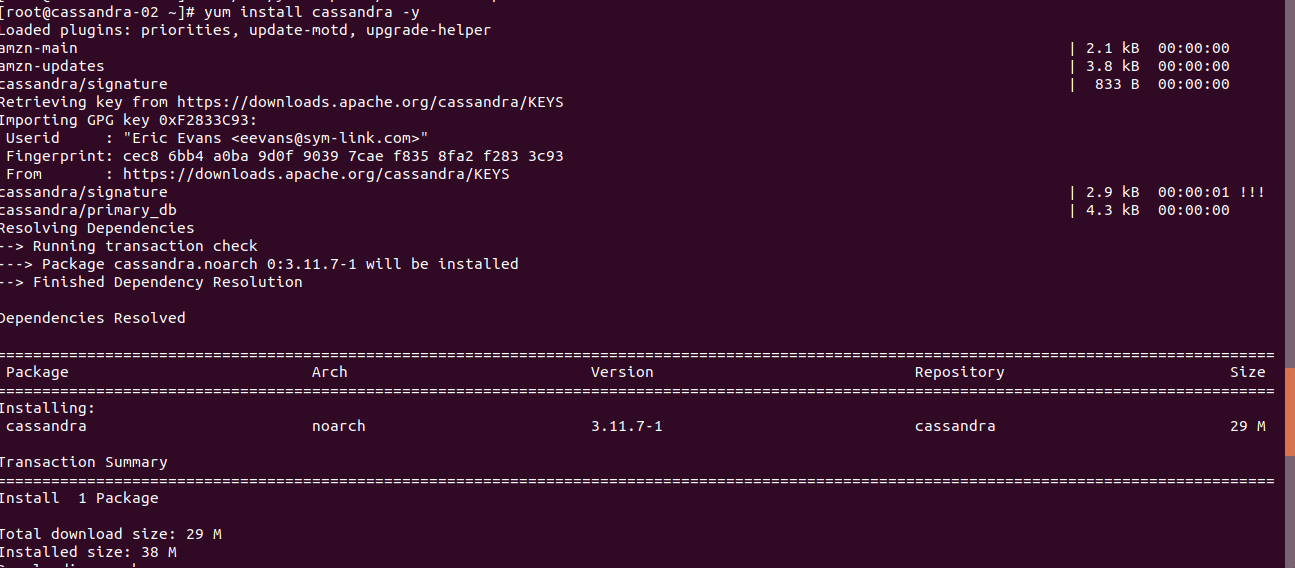
gpgcheck=1

repo\_gpgcheck=1

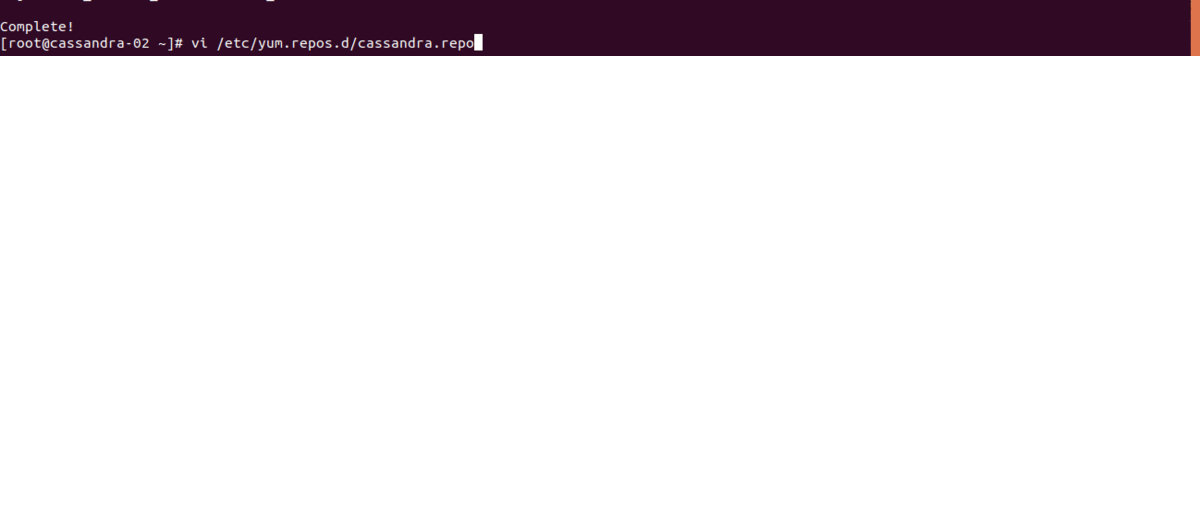
gpgkey=https://downloads.apache.org/cassandra/KEYS



**command :** yum install cassandra -y



You have to repeat step 3 in each instances.Refer the following gif file for step 3.

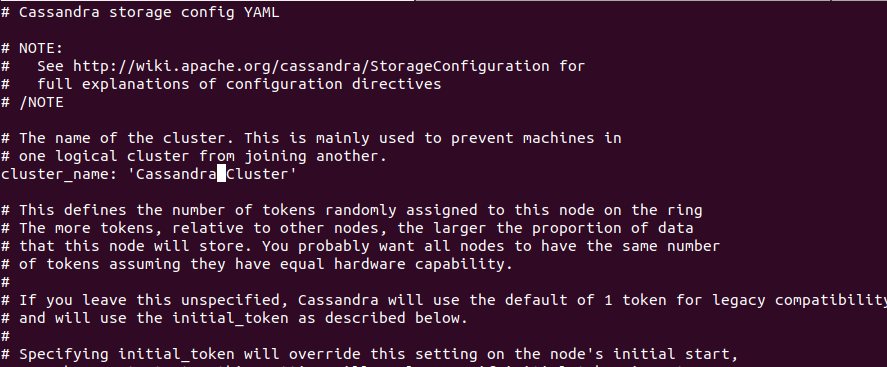


**Step 4:**  Now the most important step i.e. configuration of Cassandra Cluster. For this you have to go to /etc/cassandra/conf/cassandra.yaml and make changes in this file. Refer following command.

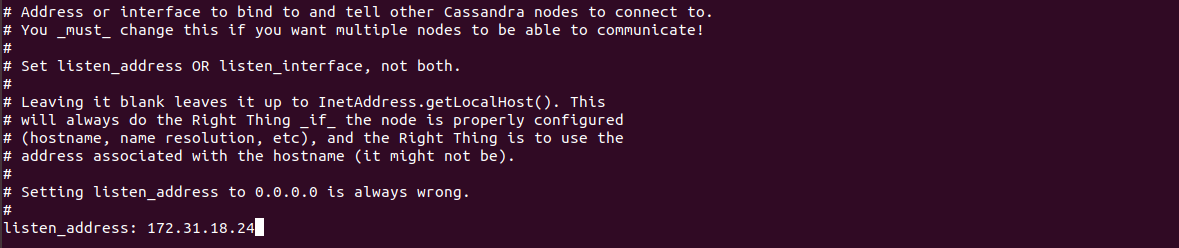
**Command :** vi /etc/cassandra/conf/cassandra.repo



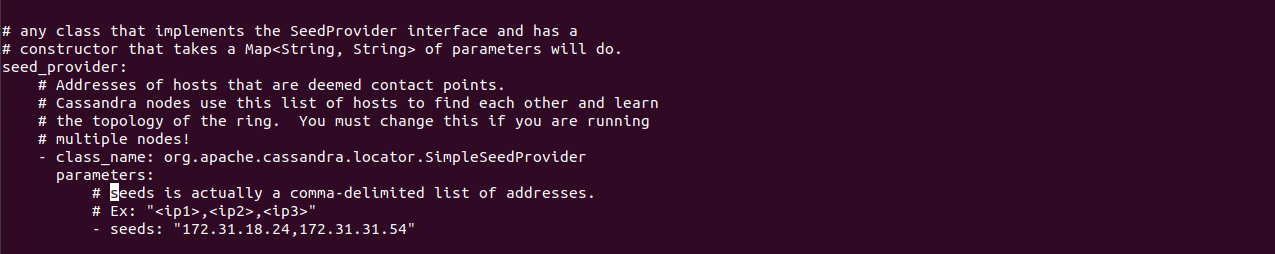
First of all give the desired cluster name. Refer following screenshot for the same.



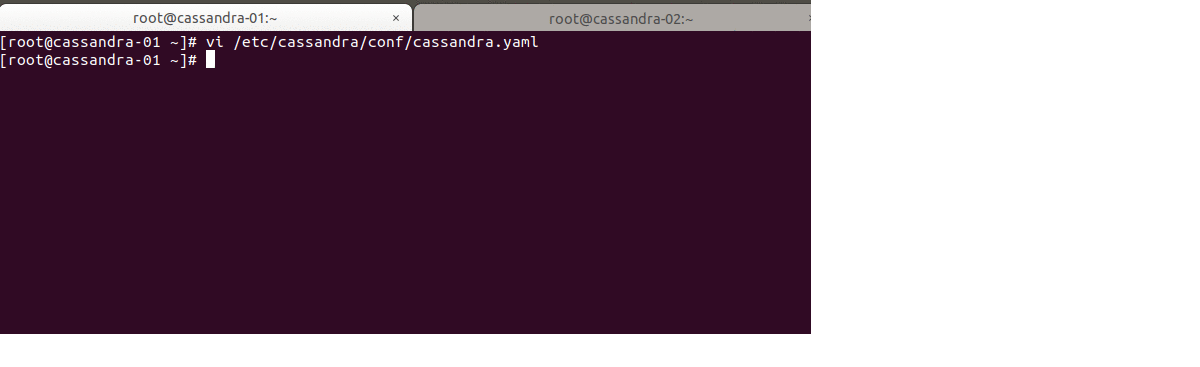
Now you have to change the listen\_address property. In listen\_address property you have to specify the private ip address of current instance.



Now specify appropriate seeds i.e. private ip of other 2 nodes seperated by comma as shown in following image. Repeat step 4 for all the instances.



You can refer following gif file for better understanding of step 4.

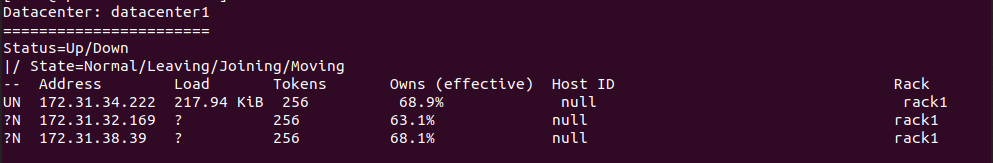


**Step 5:** Now after configuration of the cluster you just need to fire following commands and after this your cluster will be up and running.

**Command:** service cassandra start



**Command:** nodetool status



After above commands you will see following output i.e. your Cassandra Cluster is up and running.