LAB: Installing CDH5 using Cloudera Manager:

Step: 1 Meet the prerequisites: Ensure following are met before installing CDH5.

The hosts in a Cloudera Manager deployment must satisfy the following networking and security requirements:

Cluster hosts must have a working network name resolution system and correctly formatted /etc/hosts file.

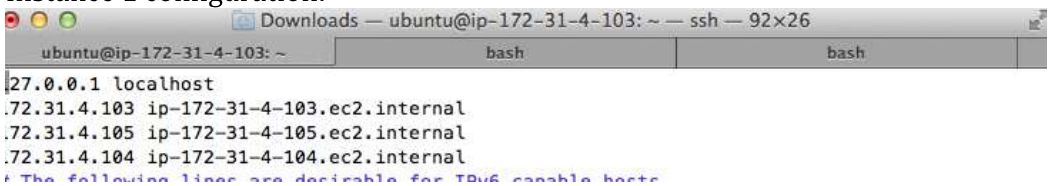
All cluster hosts must have properly configured forward and reverse host resolution through DNS.

- The /etc/hosts files must Contain consistent information about hostnames and IP addresses across all hosts
- Not contain uppercase hostnames
- Not contain duplicate IP addresses.

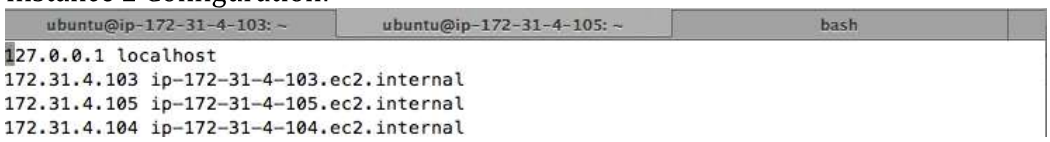
Step: 2 In our case we have following Ubuntu instances configured in amazon aws as specified in the picture below:(Ask administrator for instance details).

Step:3 Following are the private IP and the edited /etc/hosts as specified below, configure the same in your instances using putty or ssh client connecting to the instances as specified below.

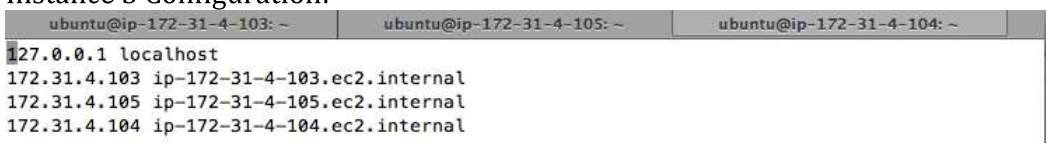
Instance 1 configuration:



Instance 2 Configuration:



Instance 3 Configuration:



Step:4 Select instance to install CM5 package as specified below and download the utility as specified below:

```
Downloads — ubuntu@ip-172-31-8-130: ~ — ssh — 132×27
ubuntu@ip-172-31-8-130:~$ wget http://archive.cloudera.com/cm5/installer/latest/cloudera-manager-installer.bin
--2015-01-19 13:56:55--  http://archive.cloudera.com/cm5/installer/latest/cloudera-manager-installer.bin
Resolving archive.cloudera.com (archive.cloudera.com)... 54.230.19.29, 54.240.160.223, 54.230.16.118, ...
Connecting to archive.cloudera.com (archive.cloudera.com)|54.230.19.29|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 514295 (502K) [application/octet-stream]
Saving to: `cloudera-manager-installer.bin'

100%[======================================================================================>] 514,295     --.-K/s   in 0.02

2015-01-19 13:56:55 (26.5 MB/s) - `cloudera-manager-installer.bin' saved [514295/514295]
```

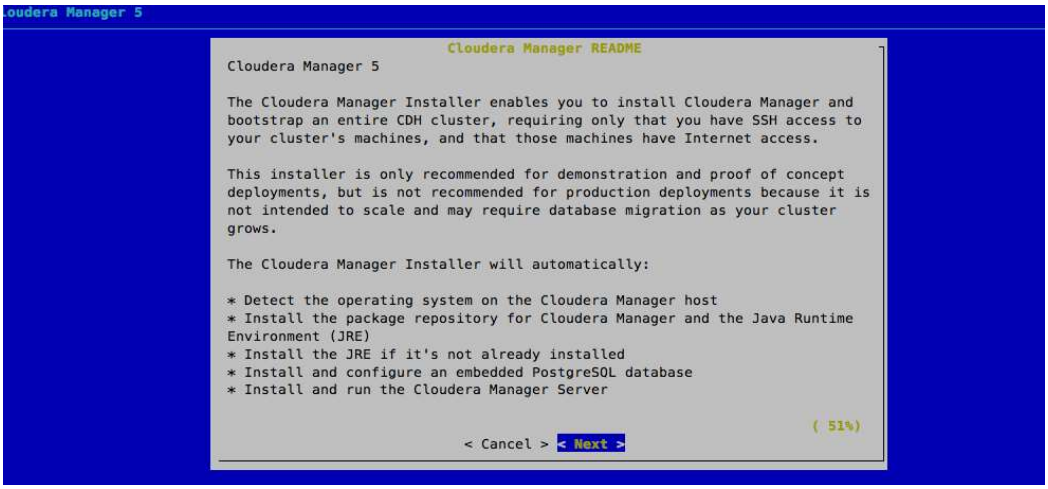
Step:5 Once your wget runs properly do ls to get the installation binary.

```
ubuntu@ip-172-31-4-103:~$ ls
cloudera-manager-installer.bin
ubuntu@ip-172-31-4-103:~$
```

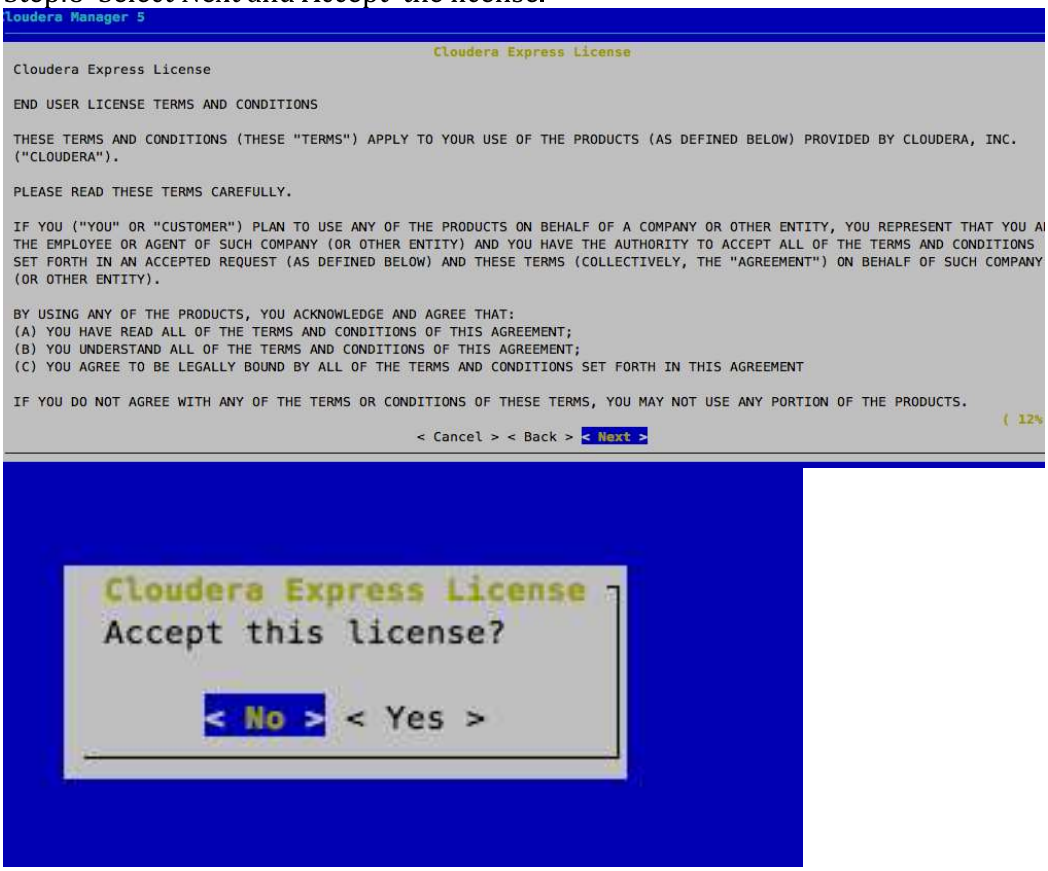
Step:6 Run the installer(ensure as root user)

```
ubuntu@ip-172-31-4-103:~$ sudo ./cloudera-manager-installer.bin
```

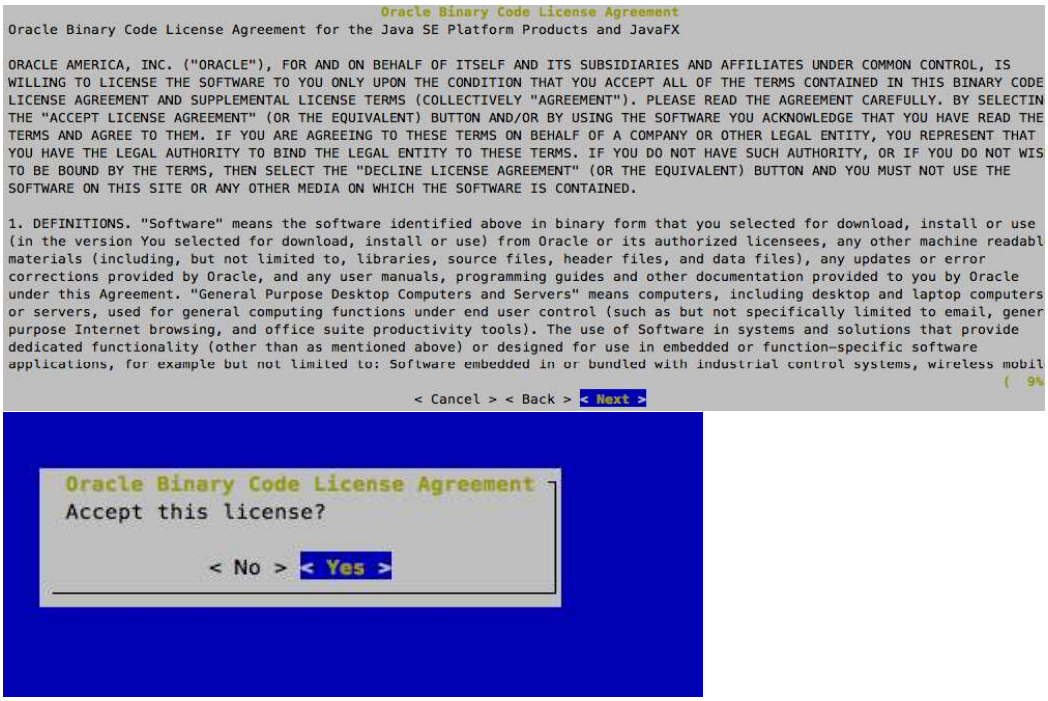
Step:7 From here specify follow the wizard.Follow the wizard as specified in below diagrams:



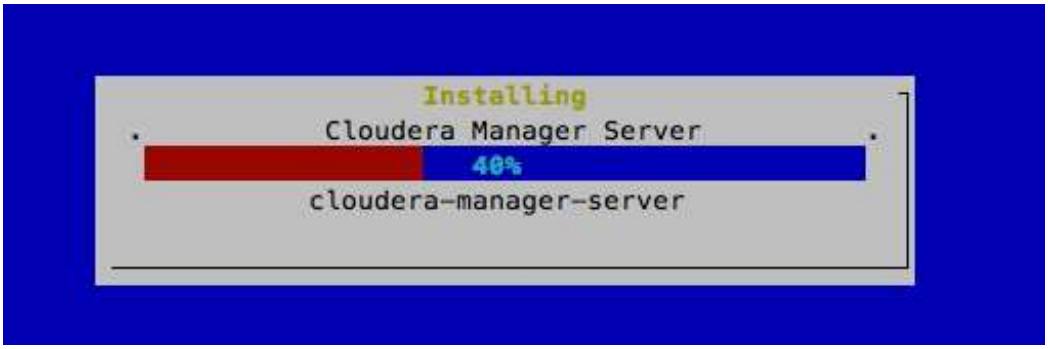
Step:8 Select Next and Accept the license.



Step: 9 Accept non-cloudera licenses.

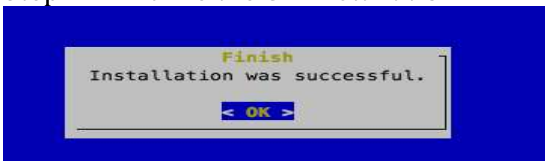


Step: 10 It starts installation with following tasks .

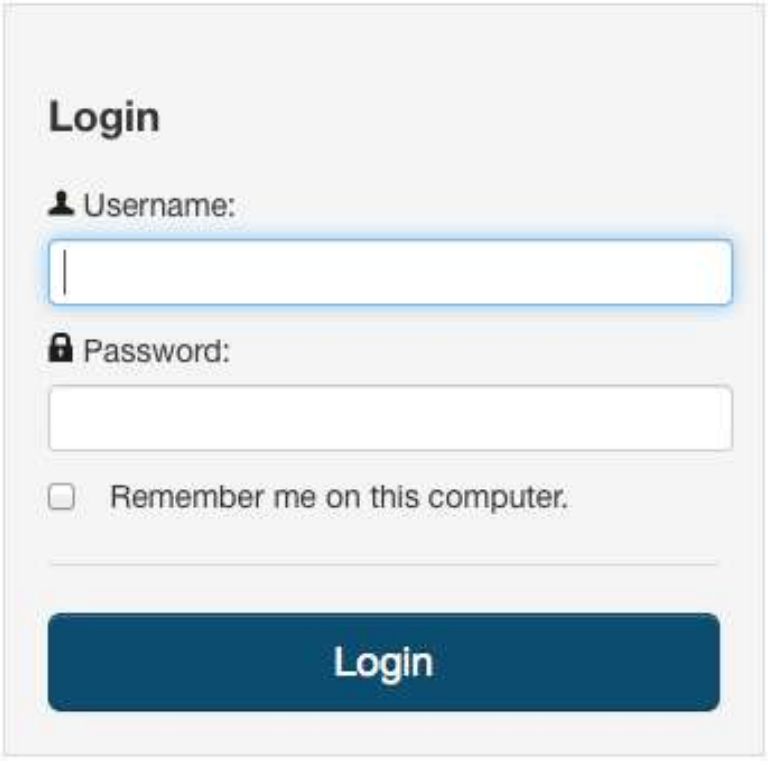


Step:11 Once installation is done browse using 7180 tcp port as indicated in last steps.

Step:12 Finalize the CM installation.



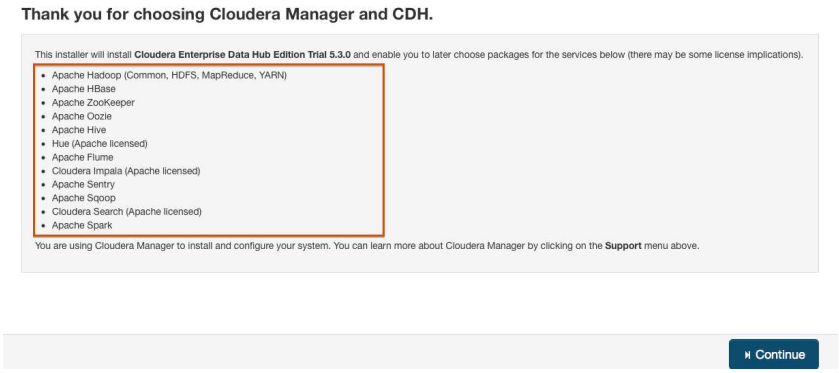
Step:13 Login in the CM using admin as userid and admin as password.



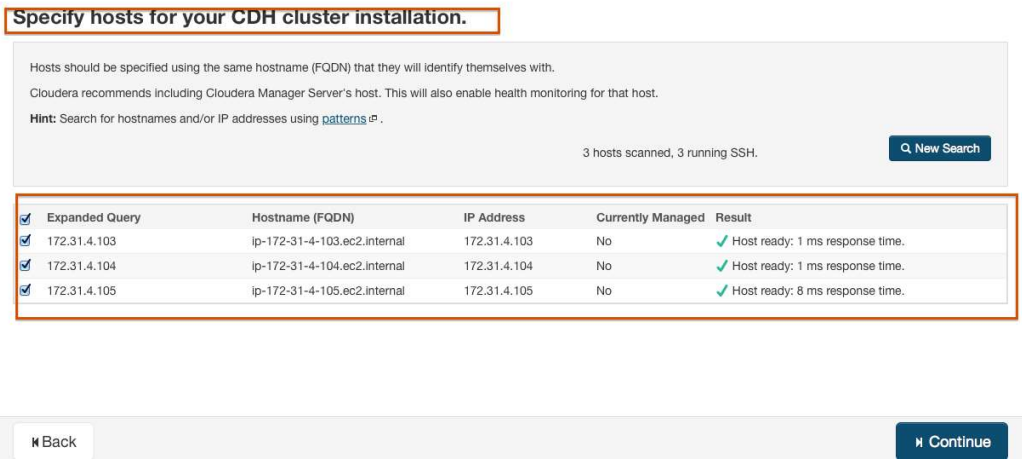
Step:14 Select the right distribution for installation .We would be selecting express since no licenses are required

Compare the feature and select the right one as per your production need.

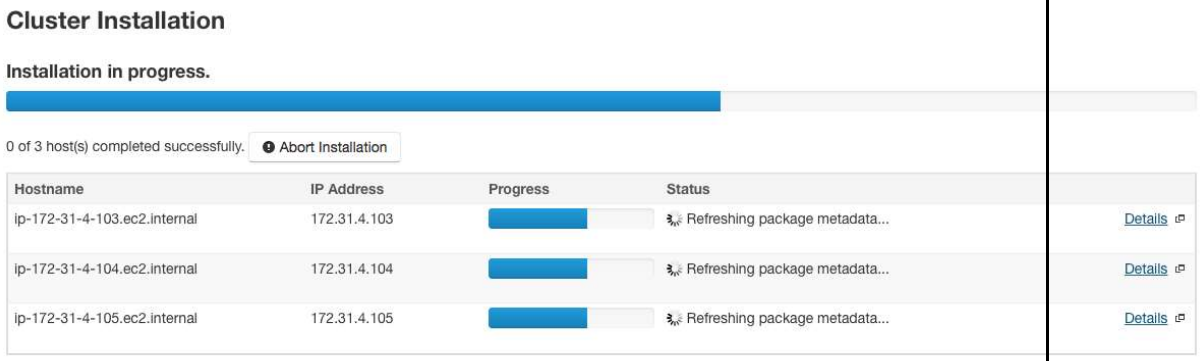
Step:15 Click on continue to reach to the products overview page as specified below.



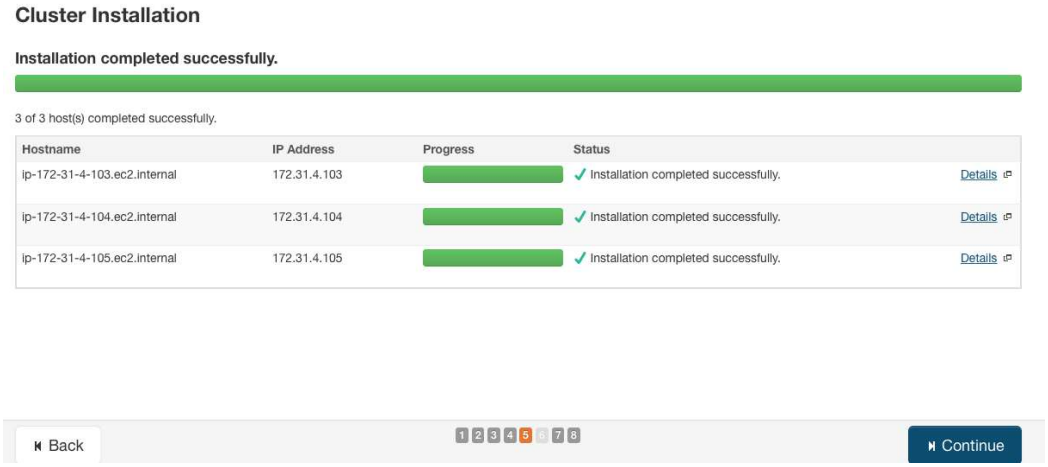
Step:16 Select the host as specified below ensure the ip addresses selected are correct as given/specified by administrator.



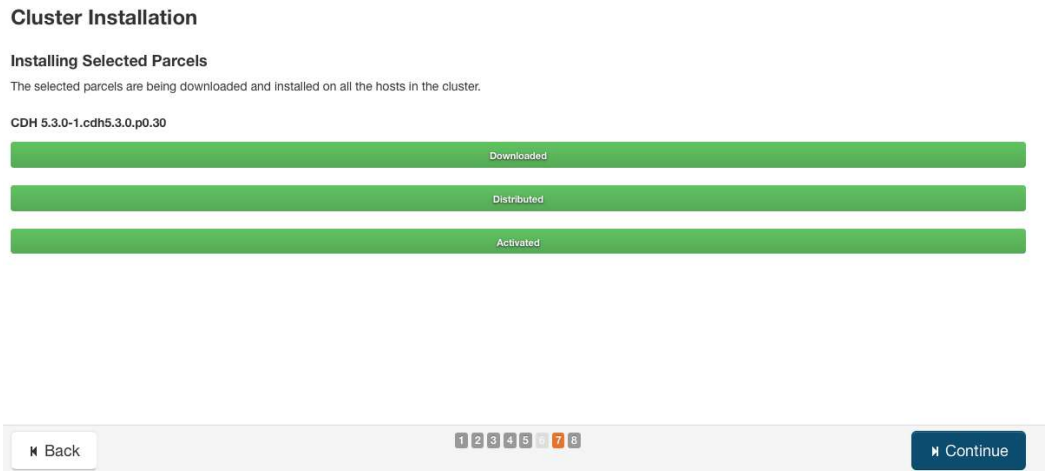
Step:17 Mark the progress of cluster installation



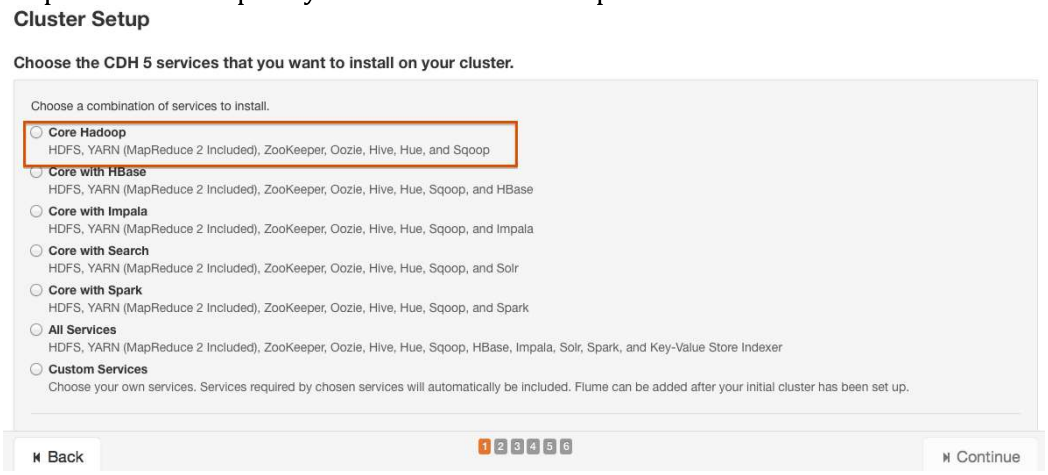
Step:18 Once everything goes fine you will see the below screen marking successful installation of cluster packages .



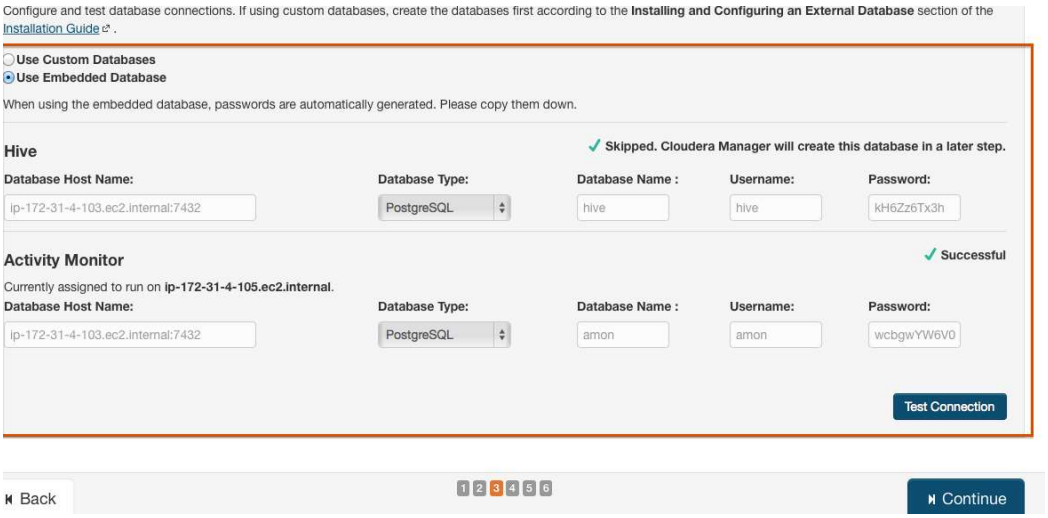
Step: 19 Click on continue to mark the CDH5 parcel as specified below.



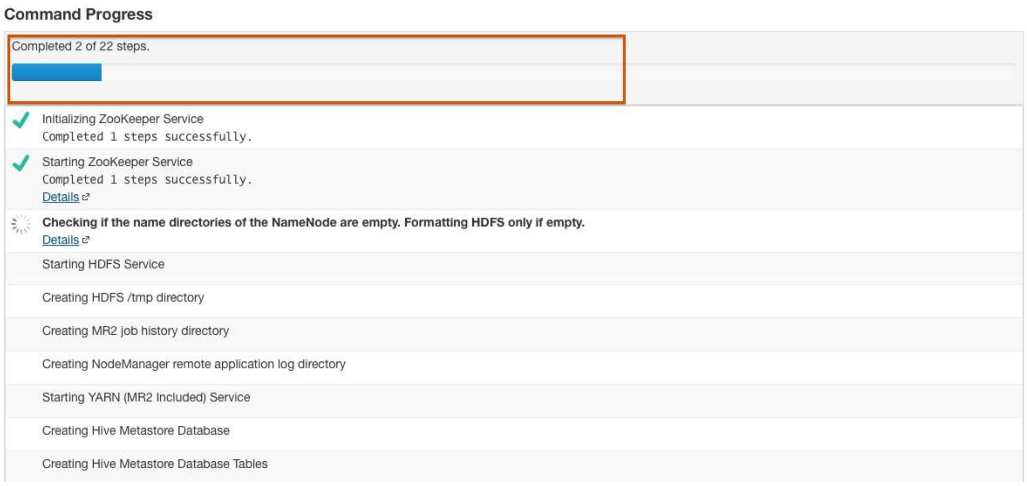
Step:20 select the pack you want to install as specified below.



Step:21 Configure the required databases (don't worry its automatically done)

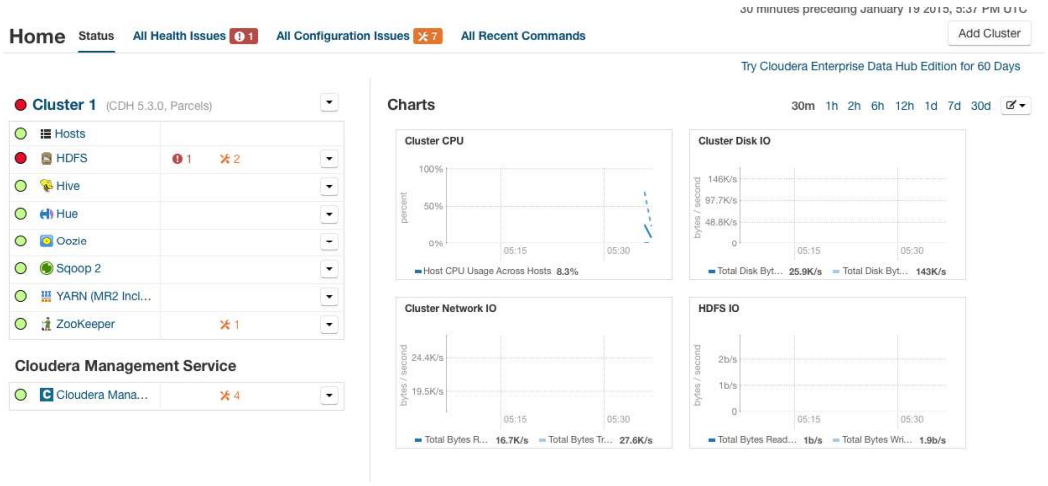


Step:22 In the following steps CM configures and starts the services as specified below.Its a 22 step task keep patience till it succeeds.



Step:23 once all 22 services are installed and done you get the below message as specified .

Step:24 once everything is done click on finish and you get a Dashboard for provisioning and configuring the hadoop services as specified below.



Step:25 you may find some warnings ignore for now.Your cloudera CDH5(Hadoop is up and running).