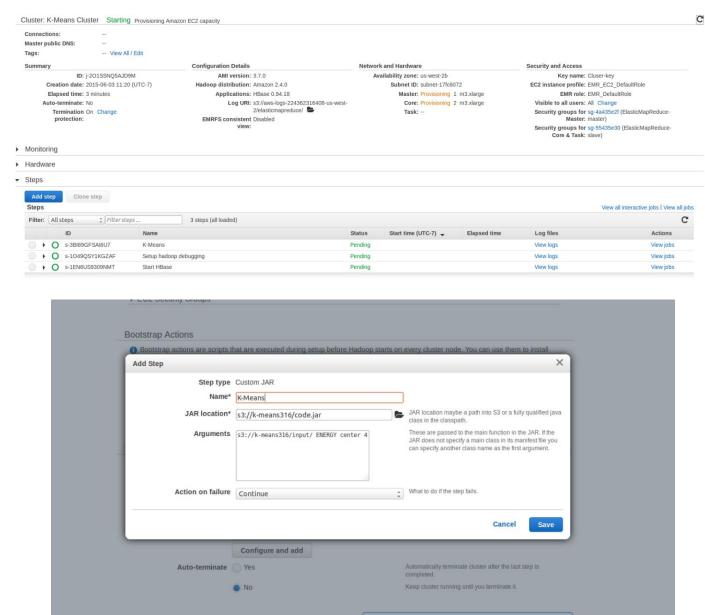
## EMR Report for K-Means cluster (Project 3 - EECS 219)

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The applications has been tested on EMR cluster with the settings of a regular cluster and the default HBase version available over the AWS. The cluster had been created, with custom jar settings as follows:-



The application input four parameters as required-

- 1) S3 location of the dataset.txt file.
- 2) Table name for the input dataset.
- 3) Table name for the center table.
- 4) K- the number of clusters.

After the application has been successfully completed running, an SSH connection to the AWS master was established.

The master provides the setting for hbase shell prompt and the tables could be scanned for the values. Scan 'center' results into –

```
COLUMN+CELL
center0
                                                                                      column=Area:X1, timestamp=1433368639022, value=0.8900027054976737
                                                                                      column=Area:X5, timestamp=1433368639022, value=569.623389874067 column=Area:X6, timestamp=1433368639022, value=306.24973874932493
center0
center0
                                                                                      column=Area:X0, timestamp=1433368639022, value=300.249/38/432493
column=Area:Y1, timestamp=1433368639022, value=31.68682556237104
column=Area:Y2, timestamp=1433368639022, value=6.9999992115170775
column=Property:X2, timestamp=1433368639022, value=3.499925657324421
column=Property:X3, timestamp=1433368639022, value=0.23436730994482746
centere
center0
center0
center0
center0
                                                                                      column=Property:X4, timestamp=1433368639022, value=2.8124619369255712
center0
                                                                                      column=Property:X7, timestamp=1433368639022, value=28.34576414701536
center0
                                                                                      column=Property:X8, timestamp=1433368639022, value=30.49437543059147
                                                                                      column=Area:X1, timestamp=1433368491087, value=0.6402566409891939
center1
                                                                                      column=Area:X5, timestamp=1433368491087, value=783.7587053127913 column=Area:X6, timestamp=1433368491087, value=342.8292448071897
center1
center1
                                                                                      column=Area:Y1, timestamp=1433368491087, value=220.46473025280085
column=Area:Y2, timestamp=1433368491087, value=3.50140423678298
center1
center1
                                                                                      column=Property:X2, timestamp=1433368491087, value=3.4956210738685867
center1
                                                                                      column=Property:X3, timestamp=1433368491087, value=0.23431918875234997
center1
                                                                                      column=Property:X4, timestamp=1433368491087, value=2.812297961850612
center1
                                                                                      column=Property:X7, timestamp=1433368491087, value=14.569918168579095
centeri
                                                                                      column=Property:X8, timestamp=1433368491087, value=17.111189704986096 column=Area:X1, timestamp=1433368490962, value=0.7132145237290664 column=Area:X5, timestamp=1433368490962, value=710.6244708361493
centeri
centera
centera
                                                                                      column=Area:X6, timestamp=1433368490962, value=269.6655778328452
column=Area:Y1, timestamp=1433368490962, value=220.47944650165203
column=Area:Y2, timestamp=1433368490962, value=3.50083774498761
centera
centera
centera
centera
                                                                                      column=Property:X2, timestamp=1433368490962, value=3.5053221446271685
                                                                                      column=Property:X3, timestamp=1433368490962, value=0.2343316167774272 column=Property:X4, timestamp=1433368490962, value=2.8119737694300517
center2
center2
                                                                                      column=Property:X7, timestamp=1433368490962, value=12.112868604861262
column=Property:X8, timestamp=1433368490962, value=15.037270790507428
center2
center2
                                                                                      column=Area:X1, timestamp=1433368620112, value=0.7750120376770102
column=Area:X5, timestamp=1433368620112, value=649.2406887995188
center3
center3
                                                                                      column=Area:X6, timestamp=1433368620112, value=379.7365803608536 column=Area:Y1, timestamp=1433368620112, value=134.75205421933256
center3
center3
                                                                                      column=Area:Y2, timestamp=1433368620112, value=6.999999604723442
column=Property:X2, timestamp=1433368620112, value=3.5002371659348404
center3
center3
                                                                                     column=Property:X3, timestamp=1433368620112, value=0.3.3002371039348404
column=Property:X3, timestamp=1433368620112, value=0.28126549060597026
column=Property:X7, timestamp=1433368620112, value=2.8126549060597026
center3
center3
center3
                                                                                      column=Property:X8, timestamp=1433368620112, value=38.3221744149107
center3
 row(s) in 0.5580 seconds
```

The application has thus been tested over the EMR cluster for correct centroid readings.