**Kerberos Principal and Keytab Creation**

If your cluster is not kerborized then you can access below command. And if your cluster is kerborized then u will not able to access these command, for this you have to because kerborise user.

$hdfs dfs –ls /user **or**  $hdfs dfs –mkdir /user/maalam

Root# cd /var/run/cloudera-scm-agent/process

Process# ls –ltr ->170-hdfs-NAMENODE

#cd 170-hdfs-NAMENODE

NN #ls –ltr ->hdfs.keytab

#cp hdfs.keytab /home/maalam

#chown maalam /home/maalam/hdfs.keytab

#su – maalam

Maalam$ ls –l

-rw------- maalam root 876 sep 24 04.01 hdfs.keytab

**Note**-**if u want to execute some command as this super user. U need to initiate the key for this user. First get the principal name**.

maalam$ klist –kt hdfs.keytab

2 09/23/17 03.43.50 [hdfs/ip-172.31.24.236.apsouthest-1compute.int@HADOOP.COM](mailto:hdfs/ip-172.31.24.236.apsouthest-1compute.int@HADOOP.COM)

For Get the TGT

Maalam$kinit –kt hdfs.keytab [hdfs/ip-172.31.24.236.apsouthest-1compute.int@HADOOP.COM](mailto:hdfs/ip-172.31.24.236.apsouthest-1compute.int@HADOOP.COM)

$klist ->u have a TGT, now u will be able to execute all the super user command which hdfs super user can do.

Maalam$ hdfs dfs –mkdir /user/abc

**Note- Now I’m able to execute this command by “maalam” becoz system treated me as a hdfs super user becoz I have hdfs.keytab.**

**Any one who need hdfs privilege who need to save hdfs.keytab in /home/user dir**

**So far I (maalam) use the TGT of hdfs user but now I want to user my own TGT.**

**My intention to add my ID in Kerberos DB. We need to connect to Kerberos As a admin user.**

**Root# kaadmin –p** [**admin/admin@HADOOP.COM**](mailto:admin/admin@HADOOP.COM)

**Xxxxxxxxxx (passwd)**

**Kadmin: (now I am in the admin console, & able to create principal for maalam)**

**Kadmin:add\_principal** [**maalam@HADOOP.COM**](mailto:maalam@HADOOP.COM)

**Xxxxxxxxxx**

**Kadmin:list\_principals**

[**maalam@HADOOP.COM**](mailto:maalam@HADOOP.COM) **(U will able to see all the principal)**

**Note-Now, to use any command do kinit**

**Maalam$kinit or** [**kinit@HADOOP.COM**](mailto:kinit@HADOOP.COM)

**$klist (now u have TGT)**

**$hdfs dfs –ls /user**

**Note-Creation of keytab file for maalam**

**Maalam$ktutil**

**Ktutil:add\_entry –password –p** [**maalam@HADOOP.COM**](mailto:maalam@HADOOP.COM) **–k 1 –e rc4-hmac**

**Ktutil:wkt maalam@keytab**

**Ktutil:quit**

**Maalam$ ls (maalam.keytab)**

**Maalam$ klist –kt maalam.keytab just for show the principal**

**Maalam$ kinit** [**maalam@HADOOP.COM**](mailto:maalam@HADOOP.COM) **To get the TGT**

**Maalam$klist to show the TGT**

**Note- In service uses u can not provide the passwd during run time that’s why we create the keytab file.**

**Maalam$ kinit –kt maalam.keytab maalam** [**maalam@HADOOP.COM**](mailto:maalam@HADOOP.COM)

**NOTE-when u run above command it won’t ask for passwd and u will get the TGT.**

**Ktutil-> u generate the keytab file**