Cheatography

Apache Cassandra CQL Cheat Sheet

by edendekker via cheatography.com/69159/cs/17432/

Symbolic Link to an Encrypted LVM Volume

```
ls -lrtah /var/lib/cassandra
lrwxrwxrwx 1 cassandra cassandra 34 Sep 9 19:13
/var/l ib/ cas sandra -> /media /Se cur eDa taS -
tor e/c ass andra
sudo chown -R cassan dra :ca ssandra /var/l ib/ -
cas sandra
sudo chown -R cassan dra :ca ssandra /media /Se -
cur eDa taS tor e/c ass andra
```

Logging Into CQLSH

```
export CQLSH_HOST=<rpc address>
export CQLSH_ POR T=9042
cqlsh -u cassandra
Password:
cassan dra @cq lsh> exit
```

Creating DB Users, Roles, and Access

```
https://www.datastax.com/dev/blog/role-based-
access-control-in-cassandra
CREATE ROLE superv isor;
GRANT MODIFY ON wareho use.orders TO superv isor;
GRANT SELECT ON wareho use.ad dresses TO superv -
isor;
CREATE ROLE bob WITH PASSWORD = 'password' AND
LOGIN = true;
GRANT supervisor TO bob;
LIST ALL PERMIS SIONS OF bob;
CREATE ROLE office _admin;
GRANT SELECT ON KEYSPACE office TO office _admin;
GRANT MODIFY ON KEYSPACE office TO office _admin;
GRANT office _admin TO bob;
REVOKE MODIFY ON KEYSPACE office TO office _admin;
```

Exploring Key Spaces and Tables

```
DESCRIBE keypsaces;
USE <yo urk eys pac e>;
DESCRIBE tables;
```

Minimum Dev Configuration

Start Stop Service

```
sudo -u cassandra cassandra
ps -ef | grep cassandra
sudo kill -9 <PID of cassan dra>
```

Python Batch Inserts

```
from cassandra.auth import PlainTextAuthProvider
from cassan dra.cl uster import Cluster
from cassan dra.query import BatchS tat ement
auth_p rov ide r_omni = PlainT ext Aut hPr ovider(
        use rna me= set tin gs.c as san dra _us -
ername,
        pas swo rd= set tin gs.c as san dra _pa -
ssword
)
cluste r_omni = Cluster(
        [se tti ngs.ca ssa ndr a_h ost],
        aut h_p rov ide r=a uth _pr ovi der _omni,
        por t=s ett ing s.c ass and ra_port
       # ssl_op tio ns= ssl _opts
)
conn = self.c lus ter _om ni.c on nect(
        set tin gs.c as san dra _ke ysp ace _name
)
batch = BatchS tat ement()
sql_str = (
                                  'INSERT INTO ' +
TABLE_ PREFIX + '_' +
                                  loc ati on.l -
ower() + '_' +
                                  dem ogr aph ic.l -
ower() +
                                 ' (date, value)
VALUES (?,?)'
)
sql = conn.p rep are (sq l_str)
for value in values:
        bat ch.a dd (sql, value[ 'da te'],
value[ 'va lue'])
conn.e xec ute (batch)
batch.c lear()
conn.s hut down()
```

```
sudo nano /etc/cassandra/cassandra.yaml
cluste r_name: 'Name of Cluster'
rpc_ad dress: <Your IP. Do not use a FQDN>
authen tic ator: Passwo rdA uth ent icator
sudo chmod 777 /etc/s ecu rit y/l imi ts.conf
echo "* - memlock unlimi ted " >> /etc/s ecu rit -
y/l imi ts.conf
echo "* - nofile 100000 " >> /etc/s ecu rit y/l -
imi ts.conf
echo "* - nproc 32768" >> /etc/s ecu rit y/l imi -
ts.conf
echo "* - as unlimi ted " >> /etc/s ecu rit y/l -
imi ts.conf
sudo chmod 644 /etc/s ecu rit y/l imi ts.conf
```

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