

Symbolic Link to an Encrypted LVM Volume

```
ls -lrtah /var/lib/cassandra
lrwxrwxrwx 1 cassandra cassandra 34 Sep 9 19:13
/var/lib/cassandra -> /media/SecureDataStore/cass-
andra
sudo chown -R cassandra:cassandra /var/lib/cas-
sandra
sudo chown -R cassandra:cassandra /media/SecureDa-
taStore/cassandra
```

Logging Into CQLSH

```
export CQLSH_HOST=<rpc address>
export CQLSH_PORT=9042
cqlsh -u cassandra
Password:
cassandra@cqlsh> exit
```

Creating DB Users, Roles, and Access

```
https://www.datastax.com/dev/blog/role-based-
access-control-in-cassandra
CREATE ROLE supervisor;
GRANT MODIFY ON warehouse.orders TO supervisor;
GRANT SELECT ON warehouse.addresses TO supervisor;
CREATE ROLE bob WITH PASSWORD = 'password' AND
LOGIN = true;
GRANT supervisor TO bob;
LIST ALL PERMISSIONS 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 keyspaces;
USE <yourkeyspace>;
DESCRIBE tables;
```

Minimum Dev Configuration

Start Stop Service

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

Python Batch Inserts

```
from cassandra.auth import PlainTextAuthProvider
from cassandra.cluster import Cluster
from cassandra.query import BatchStatement
auth_provider_omni = PlainTextAuthProvider(
    username=settings.cassandra_username,
    password=settings.cassandra_password
)
cluster_omni = Cluster(
    [settings.cassandra_host],
    auth_provider=auth_provider_omni,
    port=settings.cassandra_port
    # ssl_options=ssl_opts
)
conn = self.cluster_omni.connect(
    settings.cassandra_keyspace_name
)
batch = BatchStatement()
sql_str = (
    'INSERT INTO ' + TABLE_PREFIX +
    '_' +
    location.lower() + '_' +
    demographic.lower() +
    ' (date,value) VALUES (?,?)'
)
sql = conn.prepare(sql_str)
for value in values:
    batch.add(sql, value['date'], value['value'])
conn.execute(batch)
batch.clear()
conn.shutdown()
```

```
sudo nano /etc/cassandra/cassandra.yaml
cluster_name: 'Name of Cluster'
rpc_address: <Your IP. Do not use a FQDN>
authenticator: PasswordAuthenticator
sudo chmod 777 /etc/security/limits.conf
echo "* - memlock unlimited" >> /etc/security/limits.conf
echo "* - nfile 100000" >> /etc/security/limits.conf
echo "* - nproc 32768" >> /etc/security/limits.conf
echo "* - as unlimited" >> /etc/security/limits.conf
sudo chmod 644 /etc/security/limits.conf
```



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