

### Symbolic Link to an Encrypted LVM Volume

```
ls -l /var/lib/cassandra
lrwxrwxrwx 1 cassandra cassandra 34 Sep 9 19:13
/var/lib/cassandra -> /media/SecureDataStor
e/cassandra
sudo chown -R cassandra :cassandra /var/lib/
cassandra
sudo chown -R cassandra :cassandra /media/Se
cureDataStor e/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 <your keyspace>;
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 = PlainTextAuthProvider(
    username='seth.gs.cassandra',
    password='seth.gs.cassandra_password'
)
cluster = Cluster(
    [seth.gs.cassandra_host],
    auth_provider=auth_provider,
    port=settings.cassandra_port
    # ssl_options=ssl_opts
)
conn = cluster.open_connection(
    seth.gs.cassandra_keyspace_name
)
batch = BatchStatement()
sql_str = (
    'INSERT INTO ' +
    TABLE_PREFIX + '_' +
    location.lower() +
    'demographic' +
    ' (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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