

Install Cassandra Using Docker

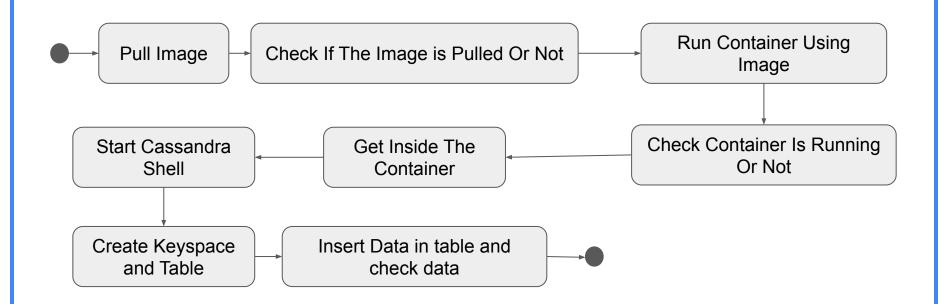
You will Learn

- Pull Image
- Run Container
- Check for running containers
- Enter into a container
- Start Cassandra Shell
- Create Keyspace & Table
- Insert data in the table and check data





Workflow



Pull Image

docker pull cassandra

```
PS C:\Users\windows10> docker pull cassandra
Using default tag: latest
latest: Pulling from library/cassandra
eaead16dc43b: Pull complete
46e1869246ce: Pull complete
bbd45db92608: Pull complete
6fcfd0f47989: Pull complete
996685dfbe33: Pull complete
4927828dcc1b: Pull complete
7f67cde8352d: Pull complete
Oda185f5d218: Pull complete
48dc66f305e8: Pull complete
<u> Digest: sha256:8d318</u>7f77bfa34340e72735d642df18bc6db6ac7e6545ab471f3bce3c10b5dad
Status: Downloaded newer image for cassandra:latest
docker.io/library/cassandra:latest
PS C:\Users\windows10>
```

Check If The Image Is Pulled Or Not

docker images

```
PS C:\Users\windows10> docker images
REPOSITORY
                              TAG
                                        IMAGE ID
                                                       CREATED
                                                                      SIZE
cassandra
                              latest
                                        5b647422e184
                                                       3 weeks ago
                                                                      353MB
apache/nifi
                              latest
                                        548738cd2d3c
                                                       7 weeks ago
                                                                      1.84GB
                                                       4 months ago
mysql
                              latest
                                        7e7e458be53c
                                                                      444MB
gcr.io/k8s-minikube/kicbase
                              v0.0.32
                                        ff7b11088f07
                                                       5 months ago
                                                                      1.15GB
PS C:\Users\windows10>
```

Run Container Using Image

 docker run -p 7000:7000 -p 7001:7001 -p 7199:7199 -p 9042:9042 -p 9160:9160 --name cassandra -d cassandra:latest

```
PS C:\Users\windows10>
PS C:\Users\windows10> docker run -p 7000:7000 -p 7001:7001 -p 7199:7199 -p 9042:9042 -p 9160:9160 --name cassandra -d cassandra:latest
7ec53a550166ed4584413671d27329f11306c120cb9a12658c33af554c5f1189
PS C:\Users\windows10>
PS C:\Users\windows10>
PS C:\Users\windows10>
```

Check Container Is Running Or Not

docker ps

```
PS C:\Users\windows10> docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

NAMES

7ec53a550166 cassandra:latest "docker-entrypoint.s..." About a minute ago Up About a minute 0.0.0.0:7000-7001->7000-7001/tcp, 0.0.0.0:719
9->7199/tcp, 0.0.0.0:9042->9042/tcp, 0.0.0.0:9160->9160/tcp cassandra
PS C:\Users\windows10>
PS C:\Users\windows10>
```

Get Inside The Container

docker exec -it 1595491161d0 bash

```
PS C:\Users\windows10>
PS C:\Users\windows10> docker exec -it 1595491161d0 bash root@1595491161d0:/#
root@1595491161d0:/#
```

Start cqlsh (cassandra shell)

cqlsh

```
PS C:\Users\windows10>
PS C:\Users\windows10> docker exec -it 7ec53a550166 bash
root@7ec53a550166:/#
root@7ec53a550166:/#
root@7ec53a550166:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var
root@7ec53a550166:/#
root@7ec53a550166:/#
root@7ec53a550166:/#
root@7ec53a550166:/#
root@7ec53a550166:/#
cot@7ec53a550166:/#
cot@7ec53a550166:/# cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.0.0 | Cassandra 4.0.7 | CQL spec 3.4.5 | Native protocol v5]
Use HELP for help.
cqlsh>
cqlsh>
```

Create & Describe Keyspace

- Create Keyspace: CREATE KEYSPACE techframer WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 1};
- Describe Keyspace: DESC KEYSPACES

Create Table

 Create Table: CREATE TABLE student(student_id int PRIMARY KEY, student_name text, student_city text, student_fees varint, student_phone varint);

Add & Check Data

- Select Data: SELECT * FROM student;
- Insert Data: INSERT INTO student (student_id, student_fees, student_name) VALUES(1,5000, 'Ajeet');

```
cqlsh:techframer>
cqlsh:techframer> SELECT * FROM student;
 student_id | student_city | student_fees | student_name | student_phone
(0 rows)
cqlsh:techframer>
cqlsh:techframer> INSERT INTO student (student_id, student_fees, student_name) VALUES(1,5000, 'Ajeet');
cglsh:techframer>
cqlsh:techframer> SELECT * FROM student;
 student_id | student_city | student_fees | student_name | student_phone
                 null 5000
                                                Aieet
                                                                 null
(1 rows)
calsh:techframer>
```

Thank You