

ASSIGNMENT - 09

PRN : 22510019

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Batch : T-2

Install & deploy the following cloud databases on Windows / Linux platform :

A] MongoDB

B] CassandraDB

Create the web form in angular 19, to demonstrate the CRUD operations with above backend cloud databases. Assume any database. Create database by your PRN.

Cassandra Configuration using docker :

```
C:\Users\asus>docker pull cassandra:latest
latest: Pulling from library/cassandra
30a9c22ae099: Pull complete
6dbdd66677ae: Pull complete
3398a057cfd5: Pull complete
c3e4752518b6: Pull complete
f755fa637644: Pull complete
148144918da9: Pull complete
aa70336047fc: Pull complete
1c7232db4fb4: Pull complete
04b08941b8d8: Pull complete
07fc3ba9ef45: Pull complete
Digest: sha256:648243f60690dc49f4ed7e7f8aceda1597ee3aacb427453a235f15480996676e
Status: Downloaded newer image for cassandra:latest
docker.io/library/cassandra:latest

C:\Users\asus>docker run --name cassandra-db -p 9042:9042 -d cassandra
2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81

C:\Users\asus>docker exec -it cassandra-db cqlsh
Connection error: ('Unable to connect to any servers', {'127.0.0.1:9042': ConnectionRefusedError(111, "Tried connecting to [('127.0.0.1', 9042)]. Last error : Connection refused"))

C:\Users\asus>docker exec -it cassandra-db cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.2.0 | Cassandra 5.0.4 | CQL spec 3.4.7 | Native protocol v5]
Use HELP for help.
cqlsh> CREATE KEYSPACE prn22510019 WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1};
cqlsh>
cqlsh> USE prn22510019;
cqlsh:prn22510019>
cqlsh:prn22510019> CREATE TABLE users (
...     id UUID PRIMARY KEY,
...     name TEXT,
...     email TEXT
... );
cqlsh:prn22510019> alter table users add message text
... ;
```

Cassandra db cluster on docker desktop :

Containers / cassandra-db

cassandra-db

2bfd130ee959

cassandra:latest

9042:9042

STATUS

Running (48 seconds ago)

Logs

Inspect

Bind mounts

Exec

Files

Stats

Platform

Cmd

State

Image

PortBindings

Runtime

Mounts

Volumes

Env

Labels

Networks

1 {

2 "Id": "2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81",

3 "Created": "2025-04-14T10:54:05.217806318Z",

4 "Path": "docker-entrypoint.sh",

5 "Args": [

6 "cassandra",

7 "-f"

8],

9 "State": {

10 "Status": "running",

11 "Running": true,

12 "Paused": false,

13 "Restarting": false,

14 "OOMKilled": false,

15 "Dead": false,

16 "Pid": 551,

17 "ExitCode": 0,

18 "Error": "",

19 "StartedAt": "2025-04-15T03:32:55.19850385Z",

20 "FinishedAt": "2025-04-15T02:41:46.205413809Z"

21 },

22 "Image": "sha256:5f3484d6e906962989736237a6ef29e5243fa0ef0e0ad2da6de148f27f21d764",

23 "ResolvConfPath": "/var/lib/docker/containers/2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81/resolv.conf",

24 "HostnamePath": "/var/lib/docker/containers/2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81/hostname",

25 "HostsPath": "/var/lib/docker/containers/2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81/hosts",

26 "LogPath": "/var/lib/docker/containers/2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81/2bfd130ee9592a1632dfa68e7781d21ab2fc8b4b42d72cc3f9817869d0205b81.log"

27 }

RAM 5.98 GB CPU 0.25% Disk: 4.23 GB used (limit 1006.85 GB)

_ Terminal

v4.40.0

Form :

Form Data Manager

Name:

abcd

Email:

abcd@gmail.com

Message:

message from abcd

Submit

Previous Records

Name: soham patil

Email: sohampatilsp55@gmail.com

Message: hello hii i'm soham patil

Edit

Delete

Form with edit and delete functionality

