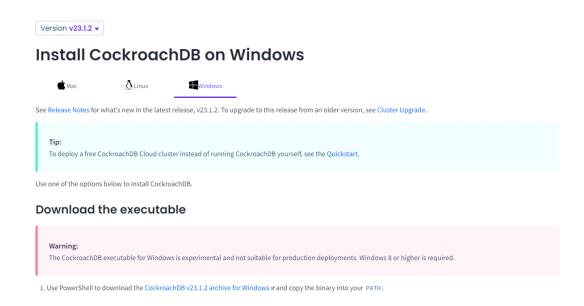
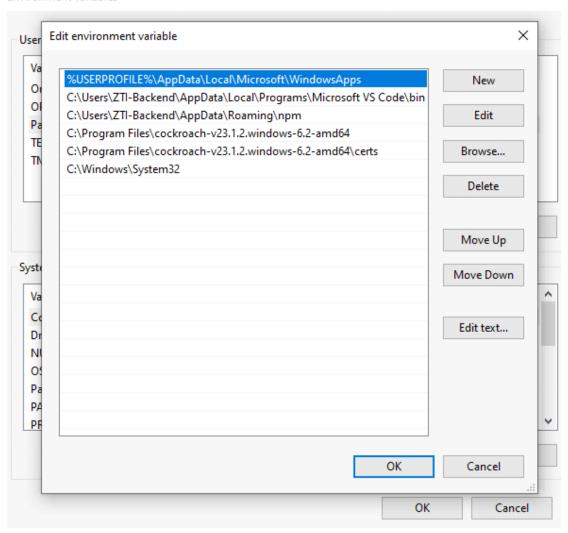
Cockroach DB Connection

Step-1: Download CockroachDB(LINK)

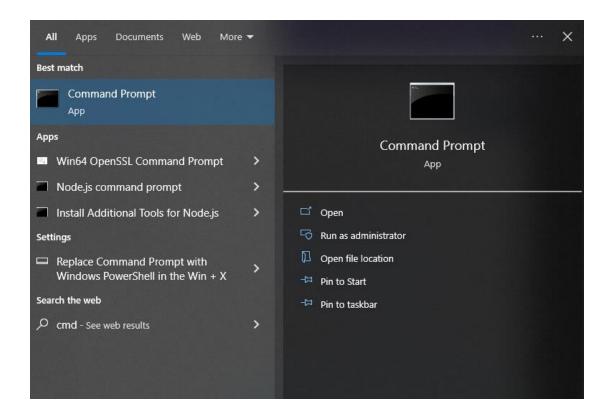


- Step-2: Unzip cockroachDB.zip file
- Step-3: Move cockroachDB folder to
 - i. C:/Program Files/cockroachDB
- Step-4: Set this two below paths into environment variable
 - i. C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64
 - ii. C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\certs

Environment Variables



Step-5: Open cmd as run as Administrator



Step-6: Open below path in cmd

i. C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64

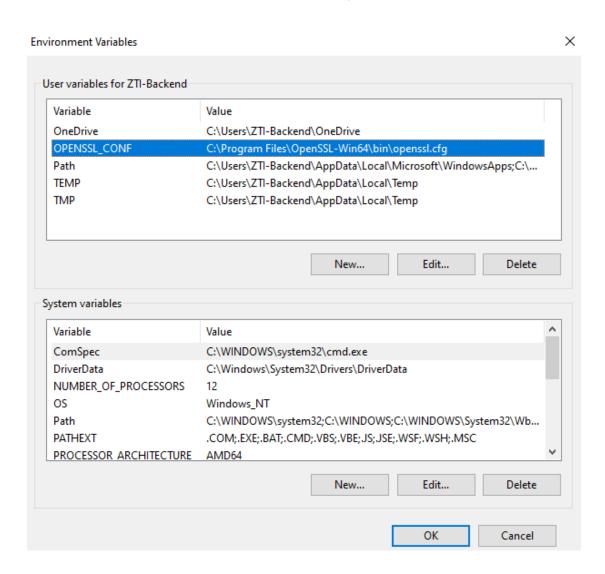
Step-7: Run below commands in cmd(Link)

- i. mkdir certs my-safe-directory
- ii. cockroach cert create-ca --certs-dir=certs --ca-key=my-safe-directory/ca.key
- iii. cockroach cert create-node localhost \$(hostname) --certs
 -dir=certs --ca-key=my-safe-directory/ca.key
- iv. cockroach cert create-client root --certs-dir=certs --ca
 -key=my-safe-directory/ca.key

Step-8: Download OpenSSL (Link)

Step-9: Move openSSL folder to i. C:\Program Files

Step-10: if openssl path automatically set in environement variables then no worry but if not then set like this



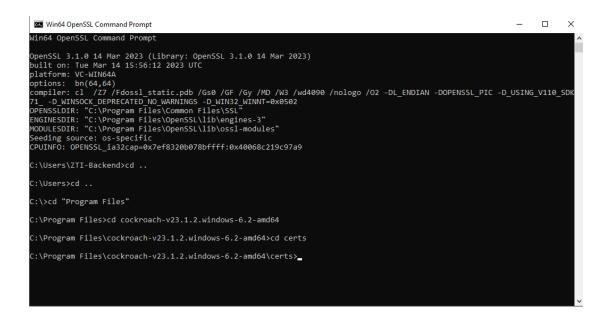
Step-11: Open openSSL folder to run oepnssl command

Name	Date modified	Туре	Size
hin	29-05-2023 15:00	File folder	
exp	29-05-2023 15:00	File folder	
include	29-05-2023 15:01	File folder	
lib	29-05-2023 15:00	File folder	
tests	29-05-2023 15:01	File folder	
acknowledgements	14-03-2023 10:42	Text Document	1 KB
authors	14-03-2023 10:42	Text Document	2 KB
c_rehash	14-03-2023 10:42	Perl Source File	7 KB
changes	14-03-2023 10:42	Text Document	749 KB
faq	14-03-2023 10:42	Text Document	1 KB
libcrypto-3-x64.dll	14-03-2023 10:42	Application exten	5,940 KB
libssl-3-x64.dll	14-03-2023 10:42	Application exten	760 KB
license	14-03-2023 10:42	Text Document	11 KB
news	14-03-2023 10:42	Text Document	73 KB
readme	14-03-2023 10:42	Text Document	7 KB
start	14-03-2023 10:42	Windows Batch File	1 KB
unins000.dat	29-05-2023 15:01	DAT File	159 KB
👸 unins000	29-05-2023 15:00	Application	714 KB

```
Win64 OpenSSL Command Prompt

OpenSSL 3.1.0 14 Mar 2023 (Library: OpenSSL 3.1.0 14 Mar 2023)
built on: Tue Mar 14 15:56:12 2023 UTC
platform: Vc-WIN64A
options: bn(64,64)
compiler: cl /Z7 /Fdossl_static.pdb /Gs0 /GF /Gy /MD /W3 /wd4090 /nologo /O2 -DL_ENDIAN -DOPENSSL_PIC -D_USING_V110_SDK
71 __D_WINSOCK_DEPRECATED_NO_WARNINGS -D_WIN32_WINNT=0x0502
OPENSSLDIR: "C:\Program Files\Common Files\SSL"
ENGINESDIR: "C:\Program Files\OpenSSL\Dib\organges-3"
WODULESDIR: "C:\Program Files\OpenSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\openSSL\Dib\ope
```

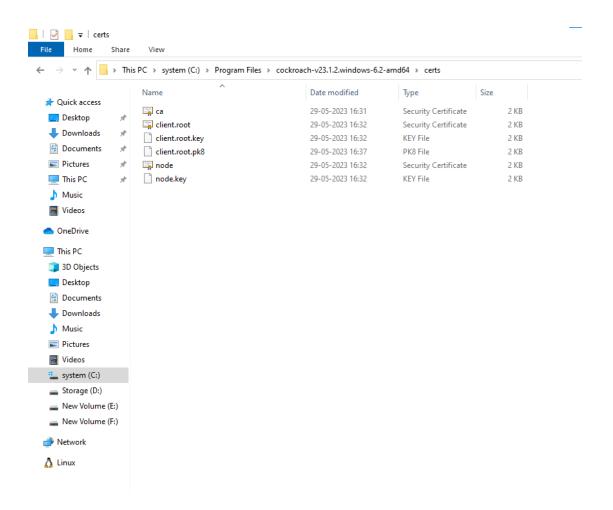
Step-12: Open certs folder inside cockroachdb i. C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\certs



Step-13: Run this Command in cmd

i. openssl pkcs8 -topk8 -inform PEM -outform DER -in client.root.key -out client.root.pk8

Step-14: After run above command client.root.pk8 file generated like this



Step-15 Open cmd as administrator in below path and run commands
Path: C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64
Command: cockroach start-single-node --certs-dir=certs --listen
-addr=localhost:26257 --http-addr=localhost:8080

```
П
 T:\Windows\System32\cmd.exe - cockroach start-single-node --certs-dir=certs --listen-addr=localhost:26257 --http-addr=localhost:8080
Microsoft Windows [Version 10.0.19045.296
   c) Microsoft Corporation. All rights reserved.
  :\Program Files\cockroach-v23.1.2.windows-6.2-amd64>cockroach start-single-node --certs-dir=certs --listen-addr=localho
   t:26257 --http-addr=localhost:8080
     WARNING: Running a server without --sql-addr, with a combined RPC/SQL listener, is deprecated. This feature will be removed in the next version of CockroachDB.
  CockroachDB node starting at 2023-05-31 04:41:31.8094021 +0000 UTC m=+1.198910901 (took 0.9s) puild: CCL v23.1.2 @ 2023/05/25 16:27:44 (go1.19.4) https://localhost:8080
build:
webui:
webul. https://postpasses.com/secanosis/defaultdb?sslcert=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.key&sslmode=verify-full&sslrootcert=certs%5Cclient.root.key&sslmode=verify-full&sslrootcert=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.key&sslmode=verify-full&sslrootcert=certs%5Cclient.root.key&sslmode=verify-full&sslrootcert=certs%5Cclient.root.key&sslmode=verify-full&sslrootcert=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=certs%5Cclient.root.crt&sslkey=cer
  RPC client flags: cockroach <client cmd> --host=localhost:26257 --certs-dir=certs

logs: c:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\cockroach-data\logs

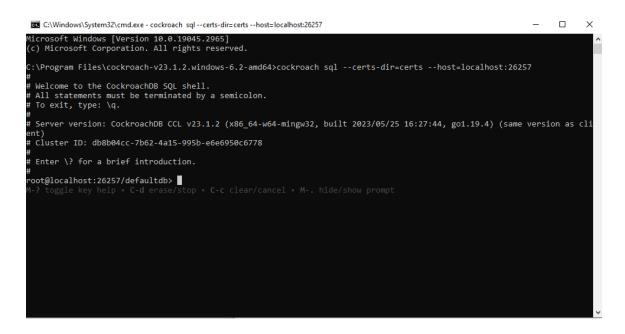
c:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\cockroach-data\cockroach-temp3043295968

external I/O path: C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\cockroach-data\extern

path=C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\cockroach-data

torcage engine: path=C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64\cockroach-data
 logs:
  store[0]:
storage engine:
 :lusterID:
                                                                                 db8b04cc-7b62-4a15-995b-e6e6950c6778 restarted pre-existing node
  tatus:
    odeID:
```

Step-16: Open new cmd as administrator in below path and rum command Path: C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64 Command: cockroach sql --certs-dir=certs --host=localhost:26257



Step-17: Create user with password in above CMD

Command: CREATE USER (user name) WITH PASSWORD

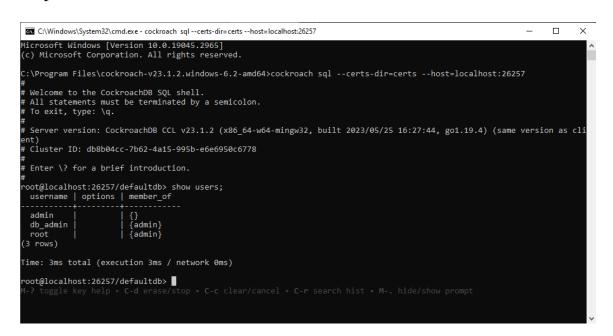
('user Password');

```
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\cockroach-v23.1.2.windows-6.2-amd64>cockroach sql --certs-dir=certs --host=localhost:26257

# Welcome to the CockroachD8 SQL shell.
# All statements must be terminated by a semicolon.
# To exit, type: \q.
# Server version: CockroachD8 CCL v23.1.2 (x86_64-w64-mingw32, built 2023/05/25 16:27:44, go1.19.4) (same version as client)
# Cluster ID: db8b04cc-7b62-4a15-995b-e6e6950c6778
# Enter \? for a brief introduction.
# root@localhost:26257/defaultdb> CREATE USER db_admin WITH PASSWORD '12345';
M-? toggle key help * C-d erase/Stop * C-c clear/cancel * M-. hide/show prompt
```

Step-18: Command: show users;



Step-19: Provide Grant to db_admin Command: GRANT admin to (user name);

```
C:\Windows\System32\cmd.exe - cockroach sql --certs-dir=certs --host=localhost:26257
                                                                                                                                 Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.
 :\Program Files\cockroach-v23.1.2.windows-6.2-amd64>cockroach sql --certs-dir=certs --host=localhost:26257
 Welcome to the CockroachDB SQL shell.
  All statements must be terminated by a semicolon. To exit, type: \q.
  Server version: CockroachDB CCL v23.1.2 (x86_64-w64-mingw32, built 2023/05/25 16:27:44, go1.19.4) (same version as cli
ent)
# Cluster ID: db8b04cc-7b62-4a15-995b-e6e6950c6778
 oot@localhost:26257/defaultdb> show users;
  username | options | member_of
                        | {}
| {admin}
| {admin}
  admin
  db_admin
root
(3 rows)
Time: 3ms total (execution 3ms / network 0ms)
root@localhost:26257/defaultdb> GRANT admin to db_admin
```

Step-20 Create database

Command: create database (db name)

```
Select C:\Windows\System32\cmd.exe-cockroach sql--certs-dir=certs--host=localhost:26257

(3 rows)

Time: 3ms total (execution 3ms / network 0ms)

root@localhost:26257/defaultdb> create database stock_portfolio;

4-? toggle key help * C-d erase/stop * C-c clear/cancel * C-r search hist * M-. hide/show prompt

I
```

step-21:command: Show databases;

