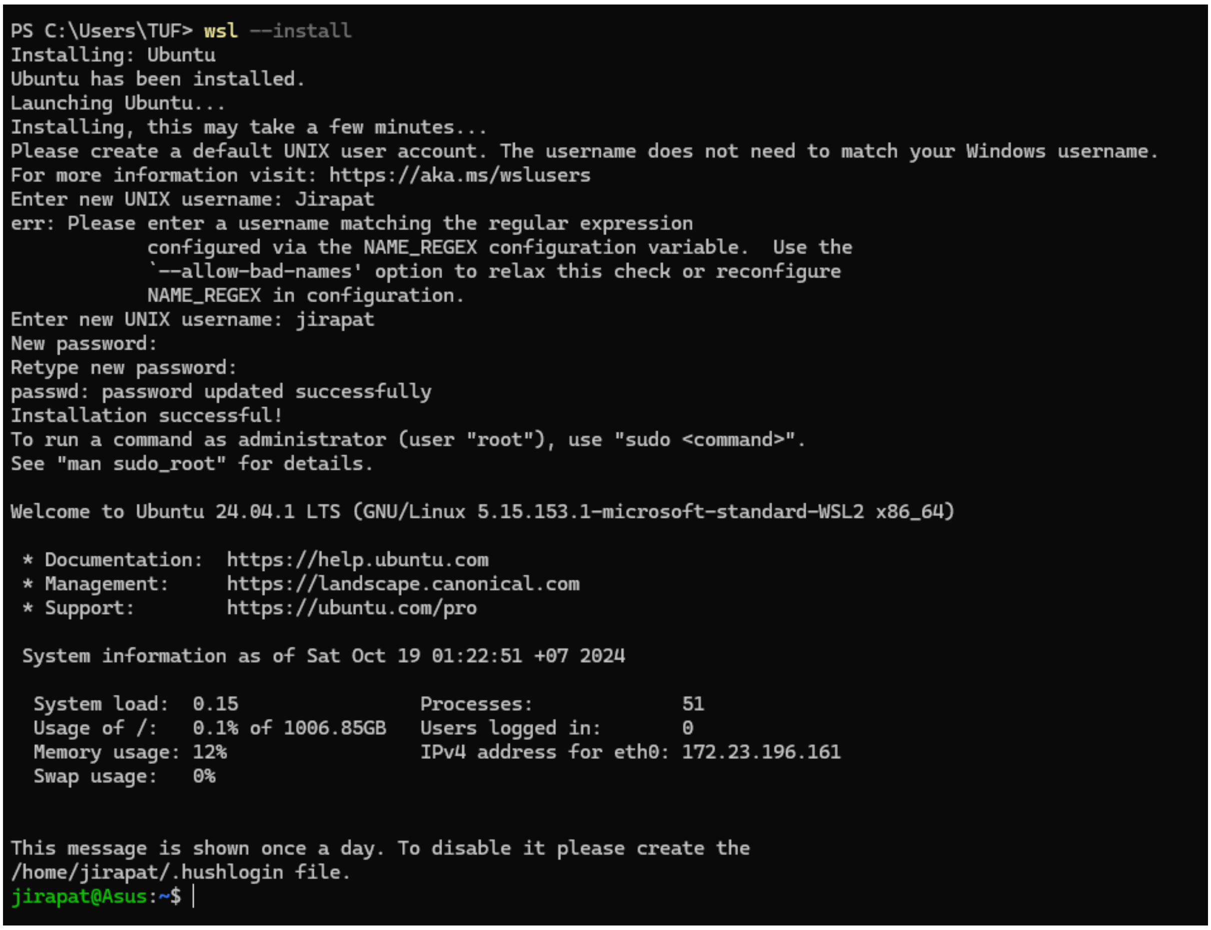
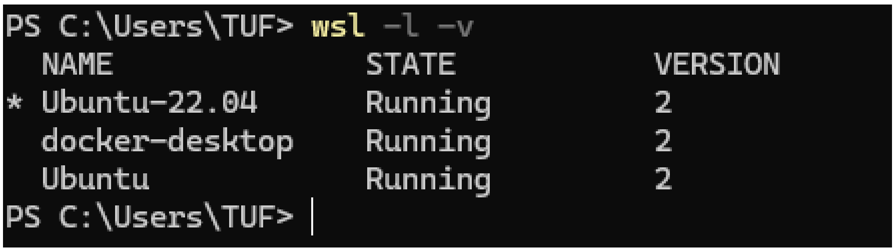
Lab6-Final

ติดตั้ง WSL แล้วเช็ค version

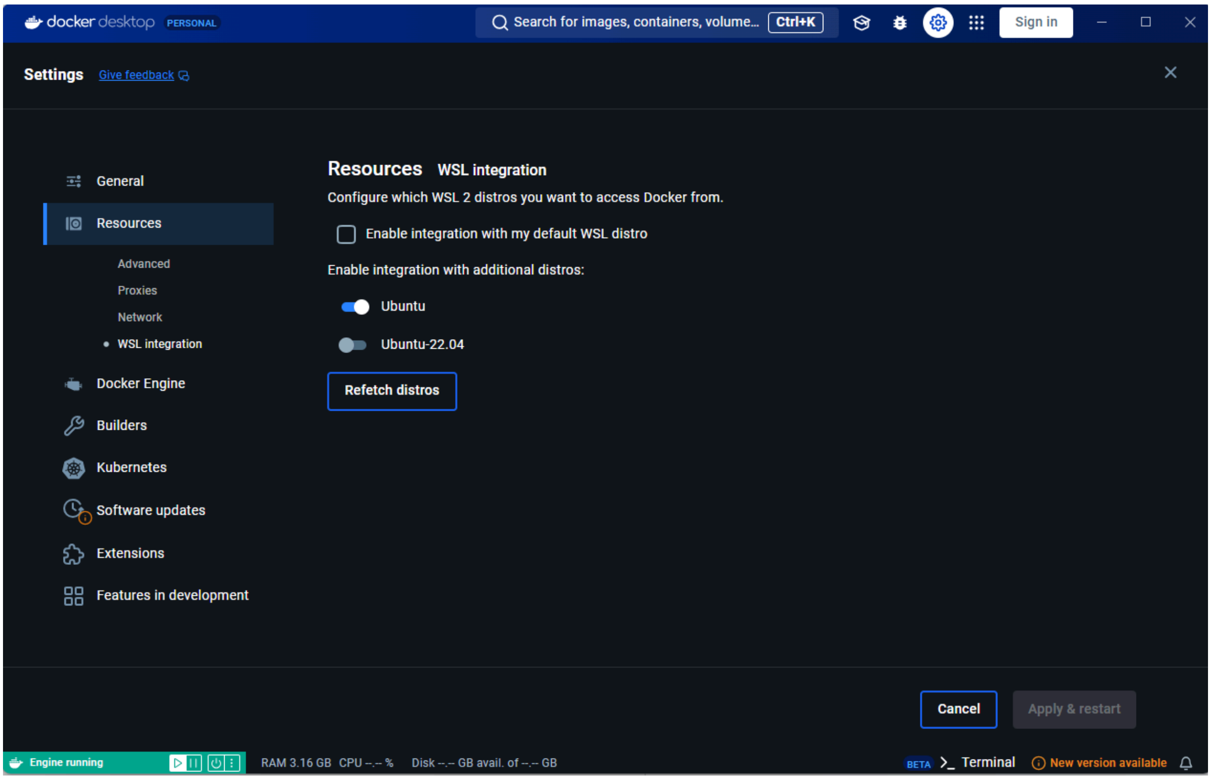


```
PS C:\Users\TUF> wsl --install
Installing: Ubuntu
Ubuntu has been installed.
Launching Ubuntu...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: Jirapat
err: Please enter a username matching the regular expression
            configured via the NAME_REGEX configuration variable.  Use the
            `--allow-bad-names' option to relax this check or reconfigure
            NAME_REGEX in configuration.
Enter new UNIX username: jirapat
New password:
Retype new password:
passwd: password updated successfully
Installation successful!
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 5.15.153.1-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Sat Oct 19 01:22:51 +07 2024

  System load:  0.15               Processes:             51
  Usage of /:   0.1% of 1006.85GB  Users logged in:       0
  Memory usage: 12%                IPv4 address for eth0: 172.23.196.161
  Swap usage:   0%


This message is shown once a day. To disable it please create the
/home/jirapat/.hushlogin file.
jirapat@Asus:~$
```



```
PS C:\Users\TUF> wsl -l -v
  NAME              STATE           VERSION
* Ubuntu-22.04      Running         2
  docker-desktop    Running         2
  Ubuntu            Running         2
PS C:\Users\TUF>
```

ตั้งค่าใน Docker Desktop



Settings Give feedback

Resources WSL integration

Configure which WSL 2 distros you want to access Docker from.

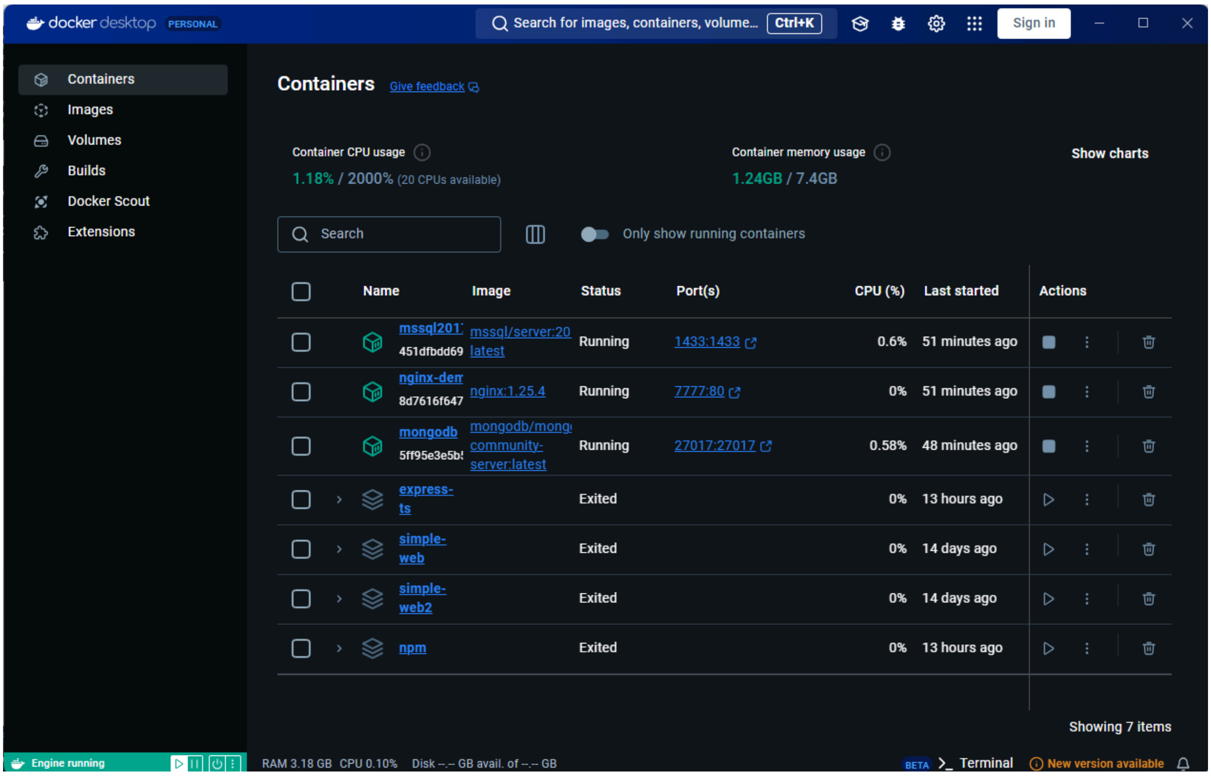
☐ Enable integration with my default WSL distro

Enable integration with additional distros:

● Ubuntu

○ Ubuntu-22.04

Containers page



Containers Give feedback

Container CPU usage 1.18% / 2000% (20 CPUs available)

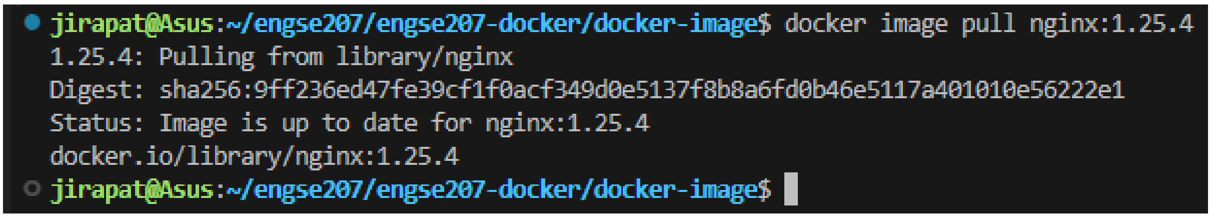
Container memory usage 1.24GB / 7.4GB

○ Only show running containers

Name	Image	Status	Port(s)	CPU (%)	Last started
mssql201 451dfbdd69	mssql/server:20 latest	Running	1433:1433	0.6%	51 minutes ago
nginx-den 8d7616f647	nginx:1.25.4	Running	7777:80	0%	51 minutes ago
mongodb 5ff95e3e5b	mongodb/mong community- server:latest	Running	27017:27017	0.58%	48 minutes ago
express-ts		Exited		0%	13 hours ago
simple-web		Exited		0%	14 days ago
simple-web2		Exited		0%	14 days ago
npm		Exited		0%	13 hours ago

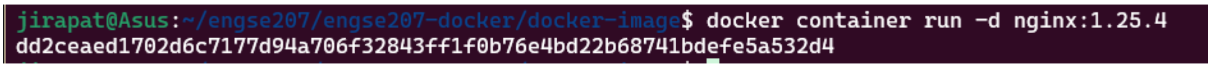
Showing 7 items

ทำการ pull nginx

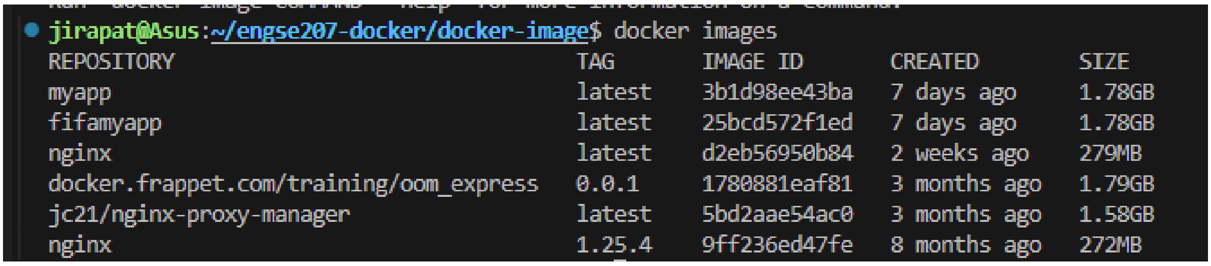


```
● jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker image pull nginx:1.25.4
  1.25.4: Pulling from library/nginx
  Digest: sha256:9ff236ed47fe39cf1f0acf349d0e5137f8b8a6fd0b46e5117a401010e56222e1
  Status: Image is up to date for nginx:1.25.4
  docker.io/library/nginx:1.25.4
○ jirapat@Asus:~/engse207/engse207-docker/docker-image$
```

run container Nginx

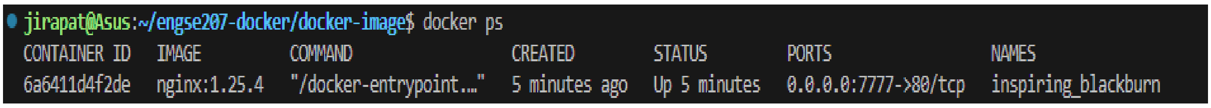


```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker container run -d nginx:1.25.4
dd2ceaed1702d6c7177d94a706f32843ff1f0b76e4bd22b68741bdefe5a532d4
```



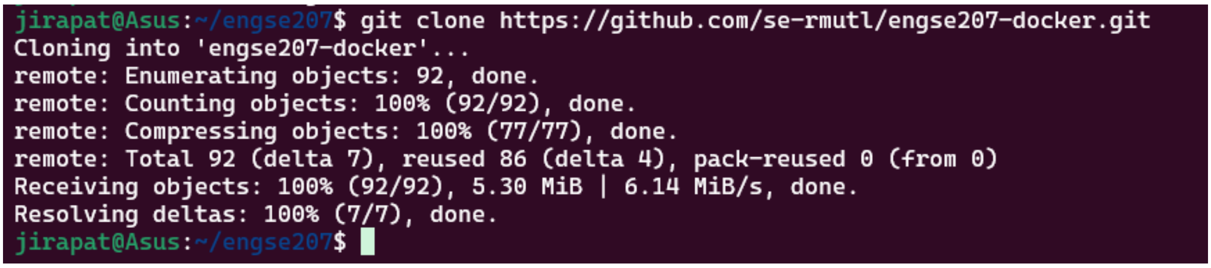
```
● jirapat@Asus:~/engse207-docker/docker-image$ docker images
  REPOSITORY                             TAG       IMAGE ID       CREATED         SIZE
  myapp                                  latest    3b1d98ee43ba   7 days ago      1.78GB
  fifamyapp                              latest    25bcd572f1ed   7 days ago      1.78GB
  nginx                                  latest    d2eb56950b84   2 weeks ago     279MB
  docker.frappet.com/training/oom_express 0.0.1    1780881eaf81   3 months ago    1.79GB
  jc21/nginx-proxy-manager               latest    5bd2aae54ac0   3 months ago    1.58GB
  nginx                                  1.25.4    9ff236ed47fe   8 months ago    272MB
```

port 7777



```
● jirapat@Asus:~/engse207-docker/docker-image$ docker ps
  CONTAINER ID   IMAGE          COMMAND                  CREATED         STATUS         PORTS                  NAMES
  6a6411d4f2de   nginx:1.25.4   "/docker-entrypoint.…"   5 minutes ago   Up 5 minutes   0.0.0.0:7777->80/tcp   inspiring_blackburn
```

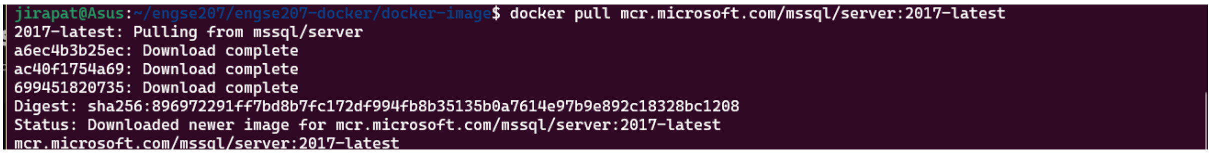
Clone ENGSE207 Docker git repository ลงมา



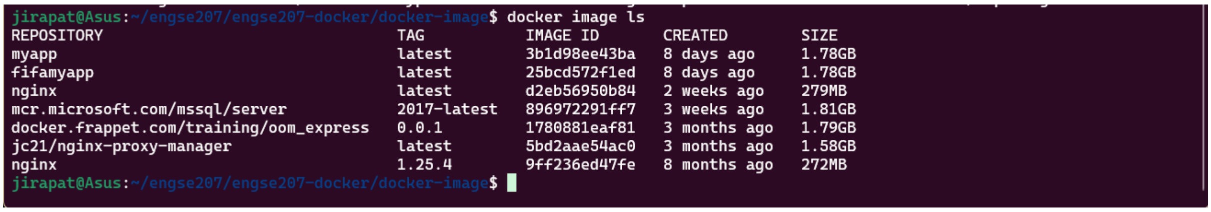
```
jirapat@Asus:~/engse207$ git clone https://github.com/se-rmutl/engse207-docker.git
Cloning into 'engse207-docker'...
remote: Enumerating objects: 92, done.
remote: Counting objects: 100% (92/92), done.
remote: Compressing objects: 100% (77/77), done.
remote: Total 92 (delta 7), reused 86 (delta 4), pack-reused 0 (from 0)
Receiving objects: 100% (92/92), 5.30 MiB | 6.14 MiB/s, done.
Resolving deltas: 100% (7/7), done.
jirapat@Asus:~/engse207$
```

ติดตั้ง MSSQL Image and Configuration

pull image

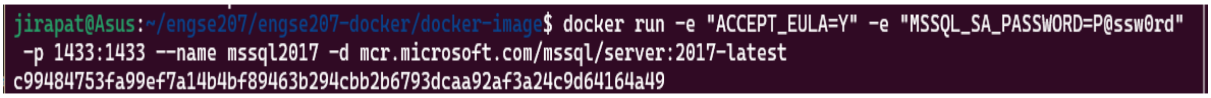


```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker pull mcr.microsoft.com/mssql/server:2017-latest
2017-latest: Pulling from mssql/server
a6ec4b3b25ec: Download complete
ac40f1754a69: Download complete
699451820735: Download complete
Digest: sha256:896972291ff7bd8b7fc172df994fb8b35135b0a7614e97b9e892c18328bc1208
Status: Downloaded newer image for mcr.microsoft.com/mssql/server:2017-latest
mcr.microsoft.com/mssql/server:2017-latest
```



```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker image ls
REPOSITORY                              TAG           IMAGE ID       CREATED        SIZE
myapp                                   latest        3b1d98ee43ba   8 days ago     1.78GB
fifamyapp                               latest        25bcd572f1ed   8 days ago     1.78GB
nginx                                   latest        d2eb56950b84   2 weeks ago    279MB
mcr.microsoft.com/mssql/server          2017-latest   896972291ff7   3 weeks ago    1.81GB
docker.frappet.com/training/oom_express 0.0.1         1780881eaf81   3 months ago   1.79GB
jc21/nginx-proxy-manager                latest        5bd2aae54ac0   3 months ago   1.58GB
nginx                                   1.25.4        9ff236ed47fe   8 months ago   272MB
jirapat@Asus:~/engse207/engse207-docker/docker-image$
```

Config SA Password



```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker run -e "ACCEPT_EULA=Y" -e "MSSQL_SA_PASSWORD=P@ssw0rd"
 -p 1433:1433 --name mssql2017 -d mcr.microsoft.com/mssql/server:2017-latest
c99484753fa99ef7a14b4bf89463b294cbb2b6793dcaa92af3a24c9d64164a49
```

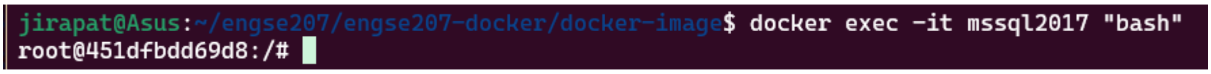
ใครขึ้นแบบนี้ docker: Error response from daemon: Ports are not available: exposing port TCP 0.0.0.0:1433 -> 0.0.0.0:0: listen tcp 0.0.0.0:1433: bind: An attempt was made to access a socket in a way forbidden by its access permissions.

ให้เข้าไปที่ cmd(ต้องเข้าที่ run as administrator) ของ windows 11 แล้วให้ใช้คำสั่งนี้

net stop winnat

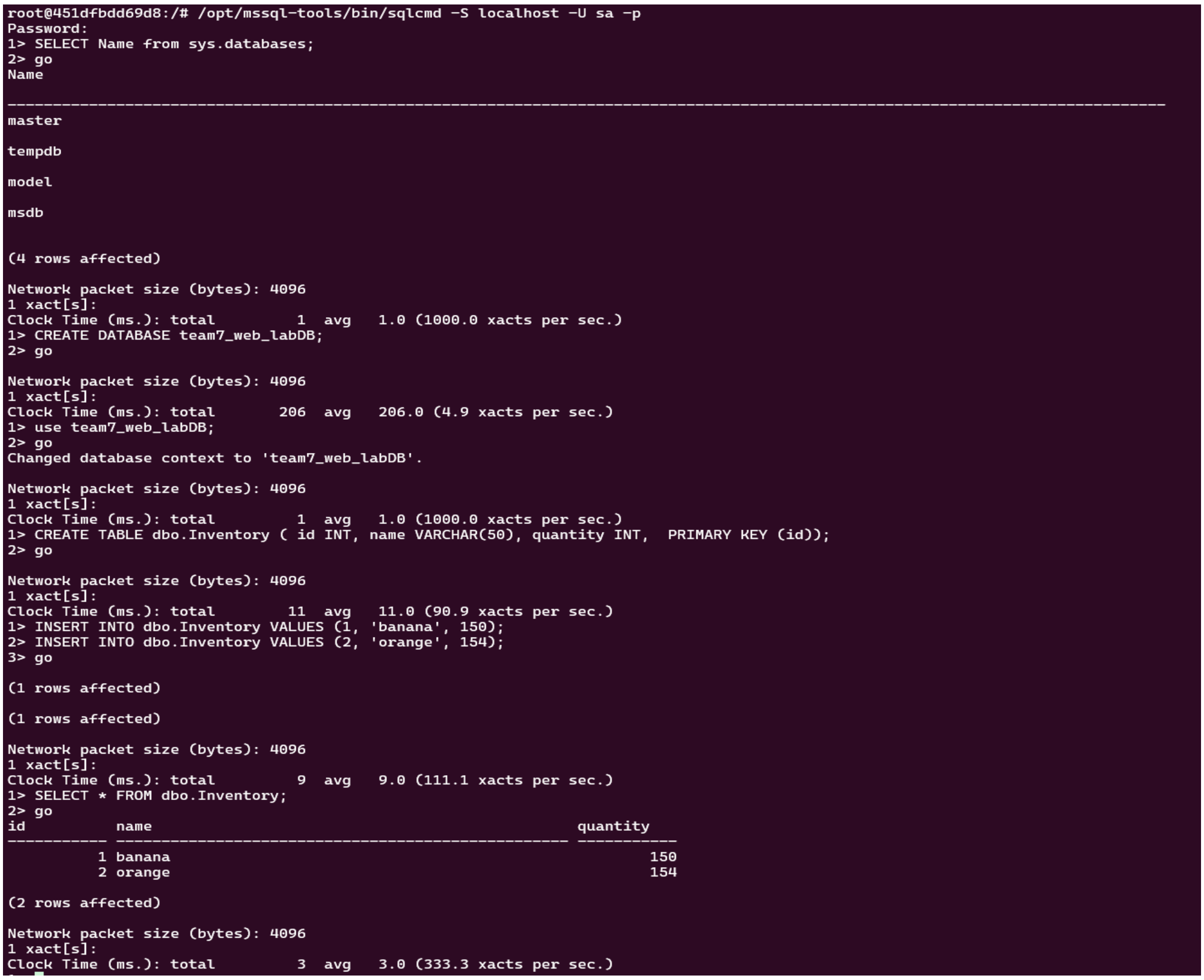
net start winnat

เข้าไปที่ mssql command line



```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker exec -it mssql2017 "bash"
root@451dfbdd69d8:/# 
```

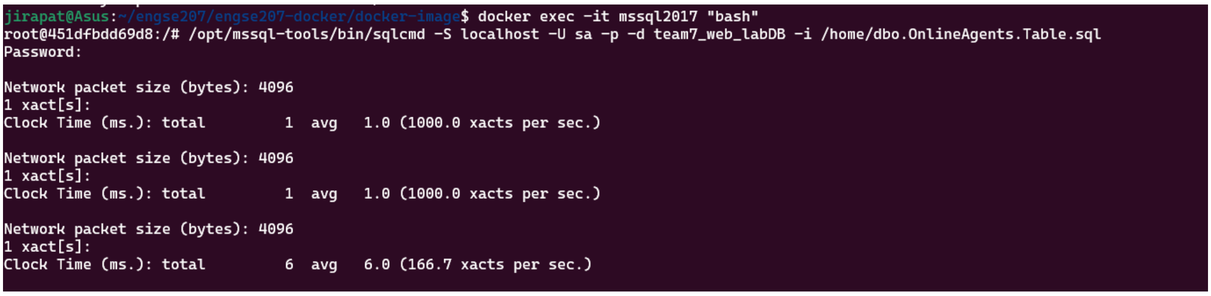
สร้าง Database



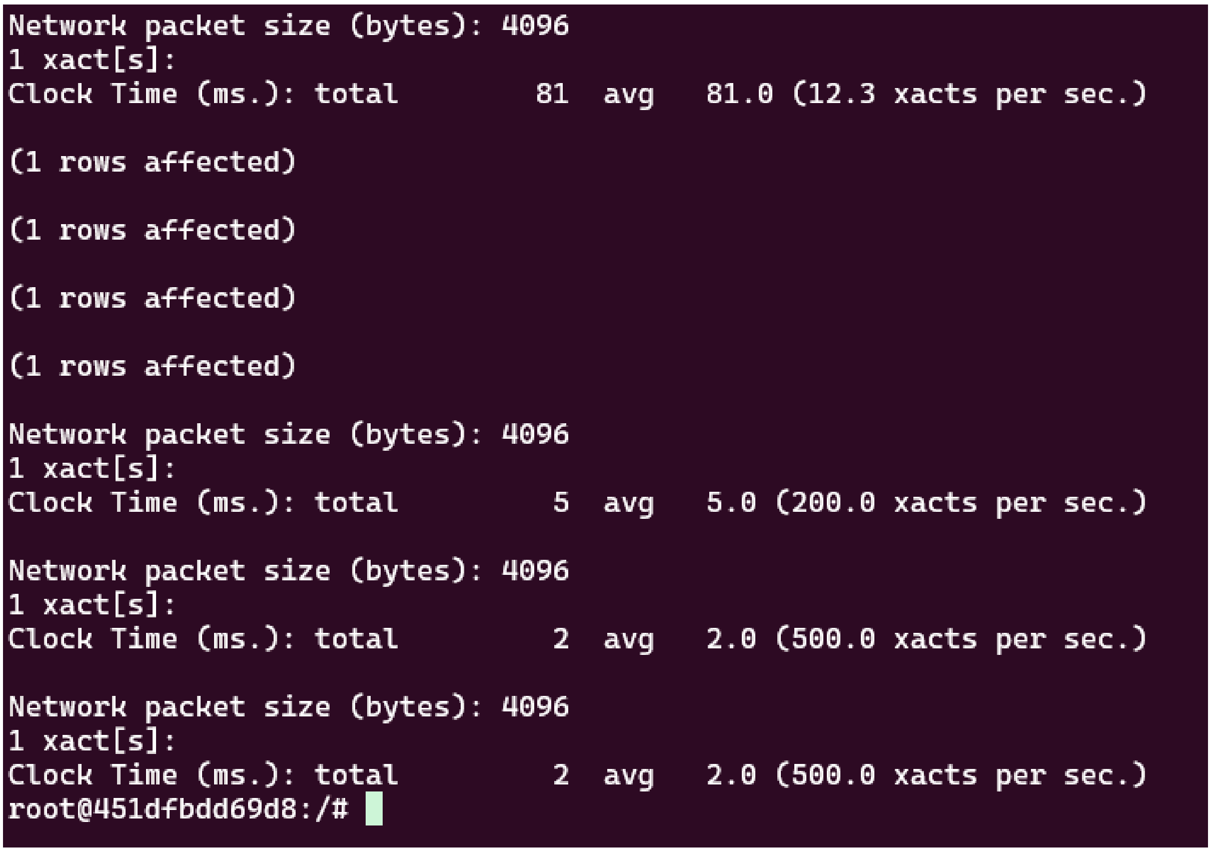
```
root@451dfbdd69d8:/# /opt/mssql-tools/bin/sqlcmd -S localhost -U sa -p
Password:
1> SELECT Name from sys.databases;
2> go
Name

--------------------------------------------------------------------------------------------------------------------------------
master

tempdb

model

msdb


(4 rows affected)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         1  avg   1.0 (1000.0 xacts per sec.)
1> CREATE DATABASE team7_web_labDB;
2> go

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total       206  avg   206.0 (4.9 xacts per sec.)
1> use team7_web_labDB;
2> go
Changed database context to 'team7_web_labDB'.

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         1  avg   1.0 (1000.0 xacts per sec.)
1> CREATE TABLE dbo.Inventory ( id INT, name VARCHAR(50), quantity INT,  PRIMARY KEY (id));
2> go

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total        11  avg   11.0 (90.9 xacts per sec.)
1> INSERT INTO dbo.Inventory VALUES (1, 'banana', 150);
2> INSERT INTO dbo.Inventory VALUES (2, 'orange', 154);
3> go

(1 rows affected)

(1 rows affected)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         9  avg   9.0 (111.1 xacts per sec.)
1> SELECT * FROM dbo.Inventory;
2> go
id          name                                               quantity
----------- -------------------------------------------------- -----------
          1 banana                                                     150
          2 orange                                                     154

(2 rows affected)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         3  avg   3.0 (333.3 xacts per sec.)
```

Import SQL Data

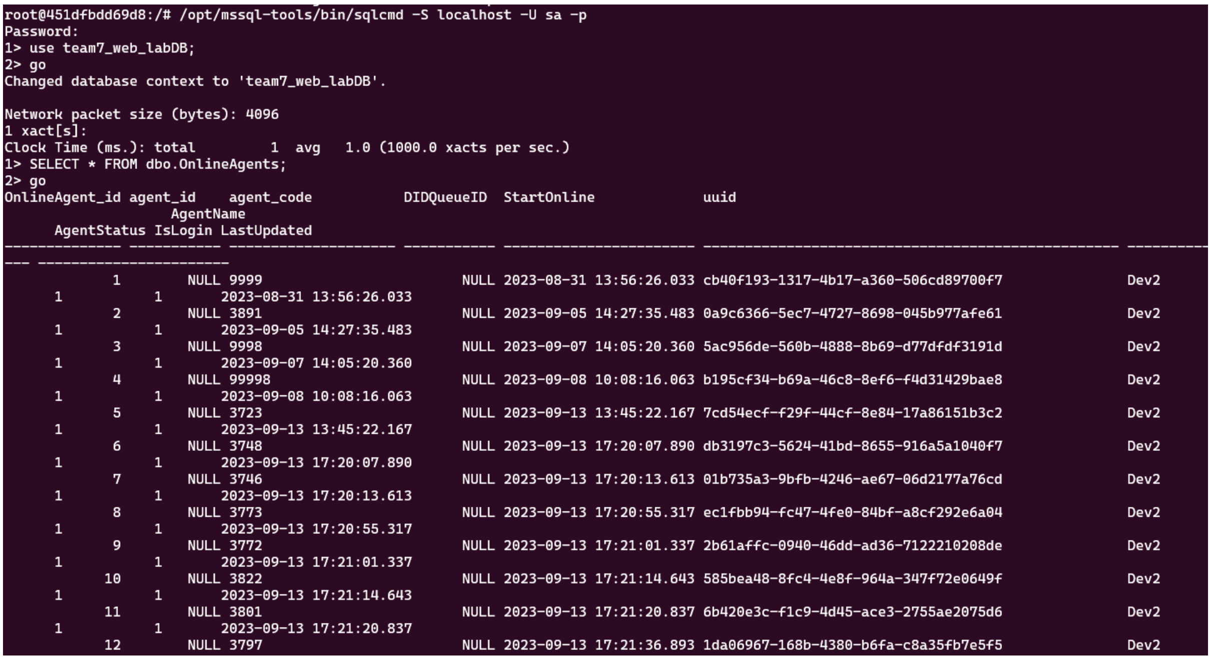
- Import data โดยเรียกโปรแกรม mssql



```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker exec -it mssql2017 "bash"
root@451dfbdd69d8:/# /opt/mssql-tools/bin/sqlcmd -S localhost -U sa -p -d team7_web_labDB -i /home/dbo.OnlineAgents.Table.sql
Password:

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         1  avg   1.0 (1000.0 xacts per sec.)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         1  avg   1.0 (1000.0 xacts per sec.)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         6  avg   6.0 (166.7 xacts per sec.)
```

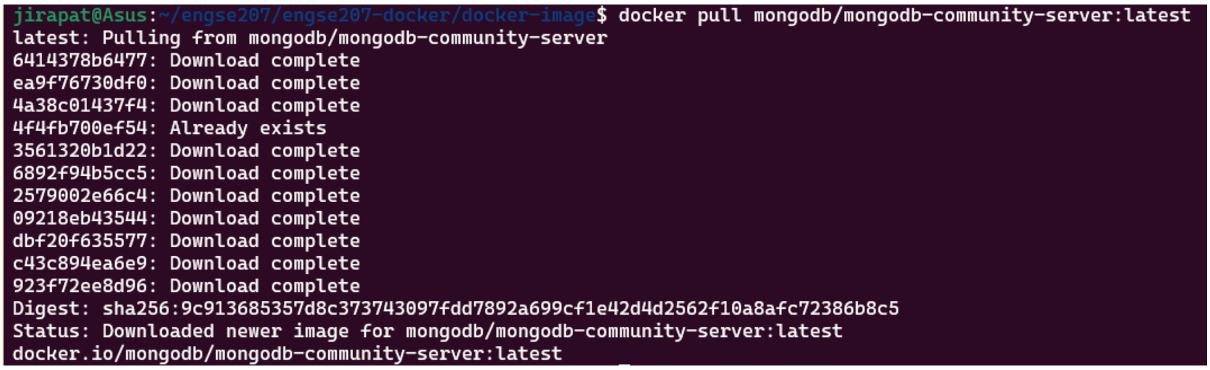


```
Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total        81  avg   81.0 (12.3 xacts per sec.)

(1 rows affected)

(1 rows affected)

(1 rows affected)

(1 rows affected)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         5  avg   5.0 (200.0 xacts per sec.)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         2  avg   2.0 (500.0 xacts per sec.)

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         2  avg   2.0 (500.0 xacts per sec.)
root@451dfbdd69d8:/#
```

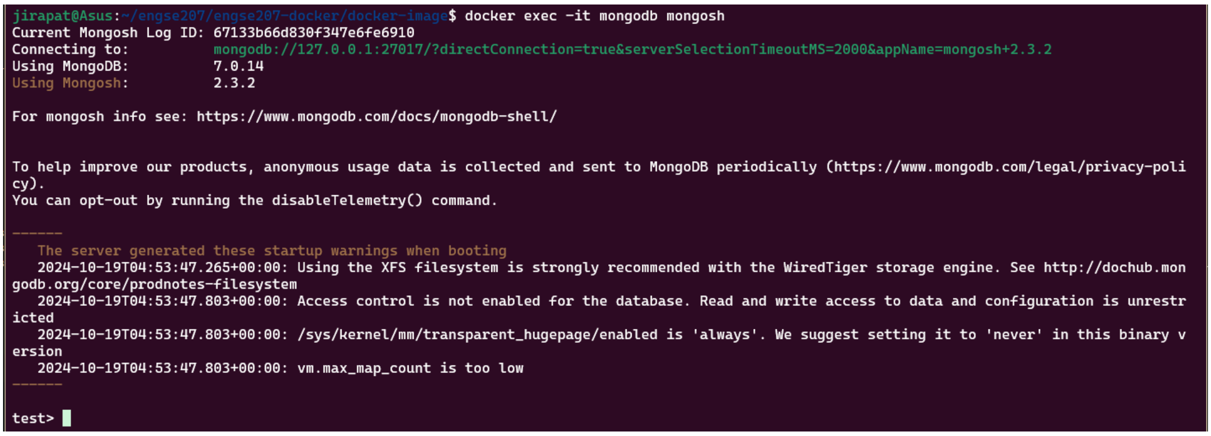


```
root@451dfbdd69d8:/# /opt/mssql-tools/bin/sqlcmd -S localhost -U sa -p
Password:
1> use team7_web_labDB;
2> go
Changed database context to 'team7_web_labDB'.

Network packet size (bytes): 4096
1 xact[s]:
Clock Time (ms.): total         1  avg   1.0 (1000.0 xacts per sec.)
1> SELECT * FROM dbo.OnlineAgents;
2> go
OnlineAgent_id agent_id    agent_code           DIDQueueID  StartOnline             uuid
                    AgentName
      AgentStatus IsLogin LastUpdated
-------------- ----------- -------------------- ----------- ----------------------- -------------------------------------------------- ----------
--- -----------------------
             1        NULL 9999                        NULL 2023-08-31 13:56:26.033 cb40f193-1317-4b17-a360-506cd89700f7               Dev2
      1           1       2023-08-31 13:56:26.033
             2        NULL 3891                        NULL 2023-09-05 14:27:35.483 0a9c6366-5ec7-4727-8698-045b977afe61               Dev2
      1           1       2023-09-05 14:27:35.483
             3        NULL 9998                        NULL 2023-09-07 14:05:20.360 5ac956de-560b-4888-8b69-d77dfdf3191d               Dev2
      1           1       2023-09-07 14:05:20.360
             4        NULL 99998                       NULL 2023-09-08 10:08:16.063 b195cf34-b69a-46c8-8ef6-f4d31429bae8               Dev2
      1           1       2023-09-08 10:08:16.063
             5        NULL 3723                        NULL 2023-09-13 13:45:22.167 7cd54ecf-f29f-44cf-8e84-17a86151b3c2               Dev2
      1           1       2023-09-13 13:45:22.167
             6        NULL 3748                        NULL 2023-09-13 17:20:07.890 db3197c3-5624-41bd-8655-916a5a1040f7               Dev2
      1           1       2023-09-13 17:20:07.890
             7        NULL 3746                        NULL 2023-09-13 17:20:13.613 01b735a3-9bfb-4246-ae67-06d2177a76cd               Dev2
      1           1       2023-09-13 17:20:13.613
             8        NULL 3773                        NULL 2023-09-13 17:20:55.317 ec1fbb94-fc47-4fe0-84bf-a8cf292e6a04               Dev2
      1           1       2023-09-13 17:20:55.317
             9        NULL 3772                        NULL 2023-09-13 17:21:01.337 2b61affc-0940-46dd-ad36-7122210208de               Dev2
      1           1       2023-09-13 17:21:01.337
            10        NULL 3822                        NULL 2023-09-13 17:21:14.643 585bea48-8fc4-4e8f-964a-347f72e0649f               Dev2
      1           1       2023-09-13 17:21:14.643
            11        NULL 3801                        NULL 2023-09-13 17:21:20.837 6b420e3c-f1c9-4d45-ace3-2755ae2075d6               Dev2
      1           1       2023-09-13 17:21:20.837
            12        NULL 3797                        NULL 2023-09-13 17:21:36.893 1da06967-168b-4380-b6fa-c8a35fb7e5f5               Dev2
```

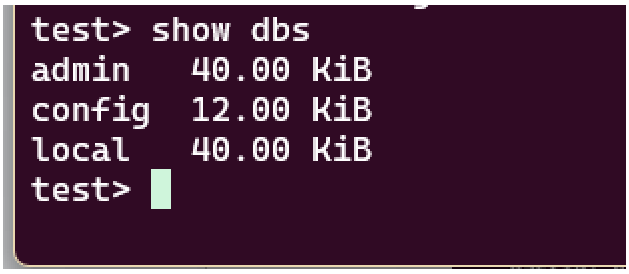
ติดตั้ง MongoDB Image and Configuration



```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker pull mongodb/mongodb-community-server:latest
latest: Pulling from mongodb/mongodb-community-server
6414378b6477: Download complete
ea9f76730df0: Download complete
4a38c01437f4: Download complete
4f4fb700ef54: Already exists
3561320b1d22: Download complete
6892f94b5cc5: Download complete
2579002e66c4: Download complete
09218eb43544: Download complete
dbf20f635577: Download complete
c43c894ea6e9: Download complete
923f72ee8d96: Download complete
Digest: sha256:9c913685357d8c373743097fdd7892a699cf1e42d4d2562f10a8afc72386b8c5
Status: Downloaded newer image for mongodb/mongodb-community-server:latest
docker.io/mongodb/mongodb-community-server:latest
```

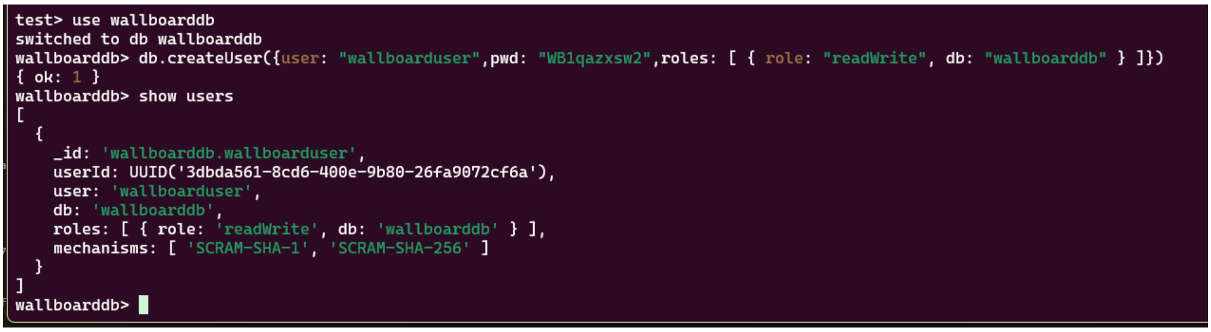


```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker exec -it mongodb mongosh
Current Mongosh Log ID: 67133b66d830f347e6fe6910
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.2
Using MongoDB:          7.0.14
Using Mongosh:          2.3.2

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/


To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-poli
cy).
You can opt-out by running the disableTelemetry() command.

------
   The server generated these startup warnings when booting
   2024-10-19T04:53:47.265+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mon
godb.org/core/prodnotes-filesystem
   2024-10-19T04:53:47.803+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestr
icted
   2024-10-19T04:53:47.803+00:00: /sys/kernel/mm/transparent_hugepage/enabled is 'always'. We suggest setting it to 'never' in this binary v
ersion
   2024-10-19T04:53:47.803+00:00: vm.max_map_count is too low
------

test>
```



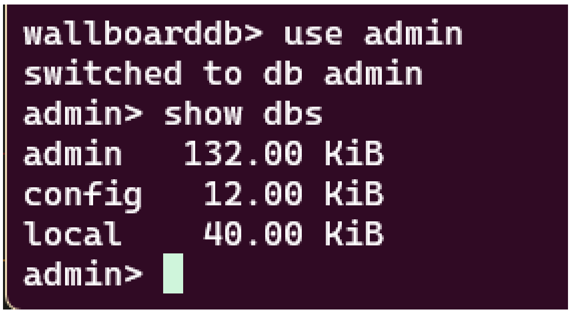
```
test> show dbs
admin    40.00 KiB
config   12.00 KiB
local    40.00 KiB
test>
```

Create Database MongoDB



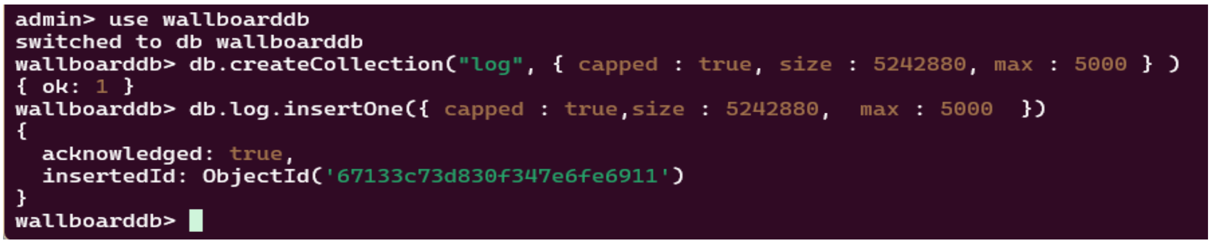
```
test> use wallboarddb
switched to db wallboarddb
wallboarddb> db.createUser({user: "wallboarduser",pwd: "WB1qazxsw2",roles: [ { role: "readWrite", db: "wallboarddb" } ]})
{ ok: 1 }
wallboarddb> show users
[
  {
    _id: 'wallboarddb.wallboarduser',
    userId: UUID('3dbda561-8cd6-400e-9b80-26fa9072cf6a'),
    user: 'wallboarduser',
    db: 'wallboarddb',
    roles: [ { role: 'readWrite', db: 'wallboarddb' } ],
    mechanisms: [ 'SCRAM-SHA-1', 'SCRAM-SHA-256' ]
  }
]
wallboarddb>
```

show database list after created



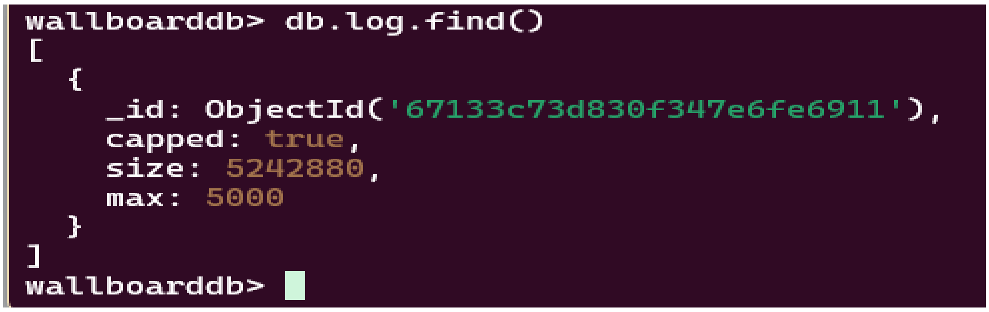
```
wallboarddb> use admin
switched to db admin
admin> show dbs
admin    132.00 KiB
config    12.00 KiB
local     40.00 KiB
admin>
```

create example collection

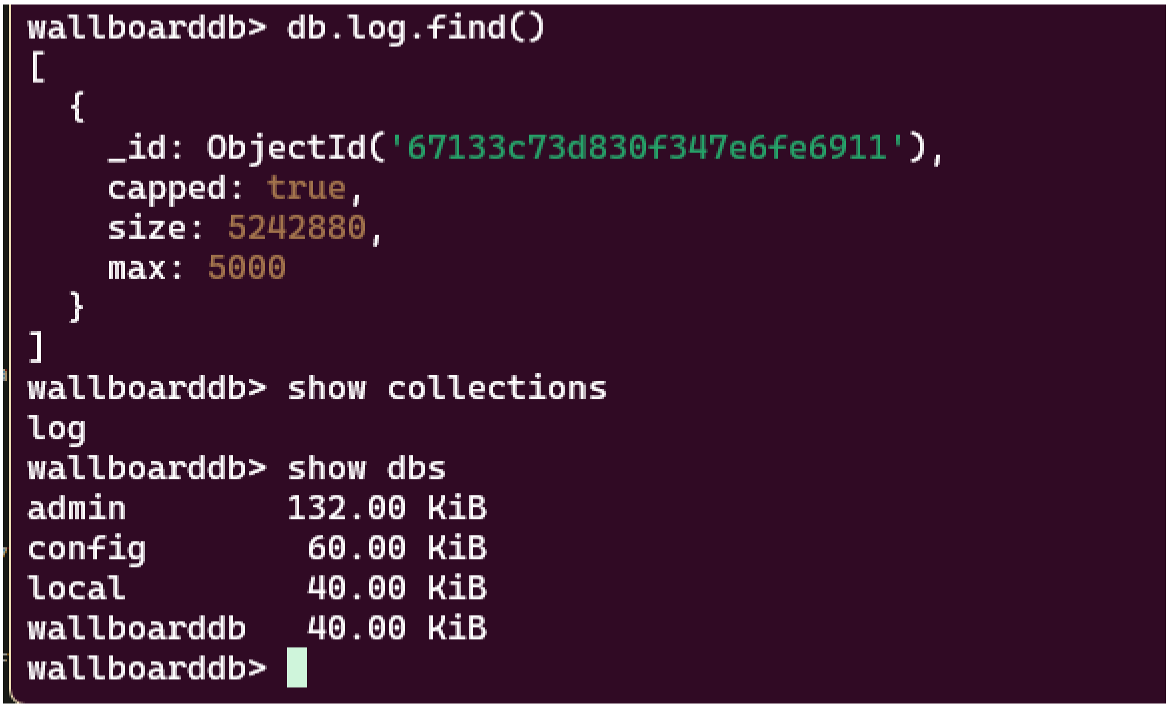


```
admin> use wallboarddb
switched to db wallboarddb
wallboarddb> db.createCollection("log", { capped : true, size : 5242880, max : 5000 } )
{ ok: 1 }
wallboarddb> db.log.insertOne({ capped : true,size : 5242880,  max : 5000  })
{
  acknowledged: true,
  insertedId: ObjectId('67133c73d830f347e6fe6911')
}
wallboarddb>
```

wallboarddb

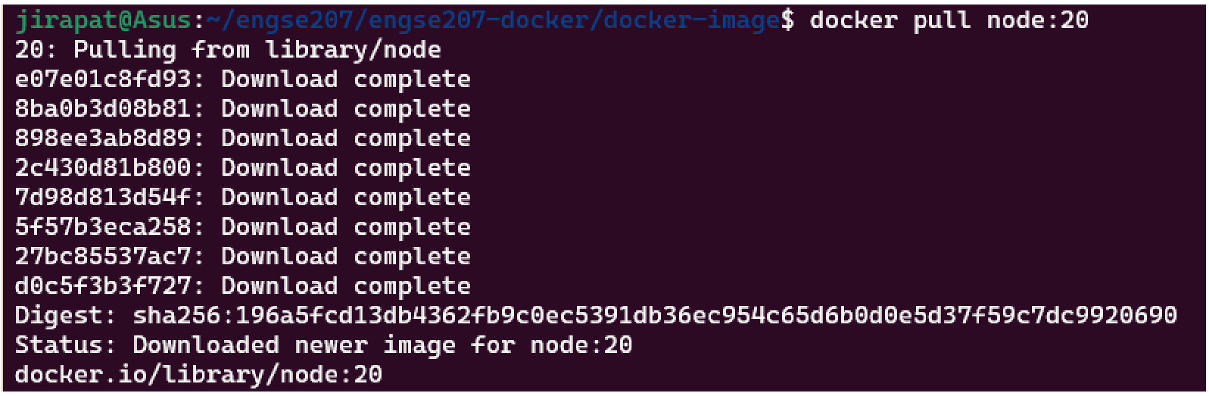


```
wallboarddb> db.log.find()
[
  {
    _id: ObjectId('67133c73d830f347e6fe6911'),
    capped: true,
    size: 5242880,
    max: 5000
  }
]
wallboarddb> 
```

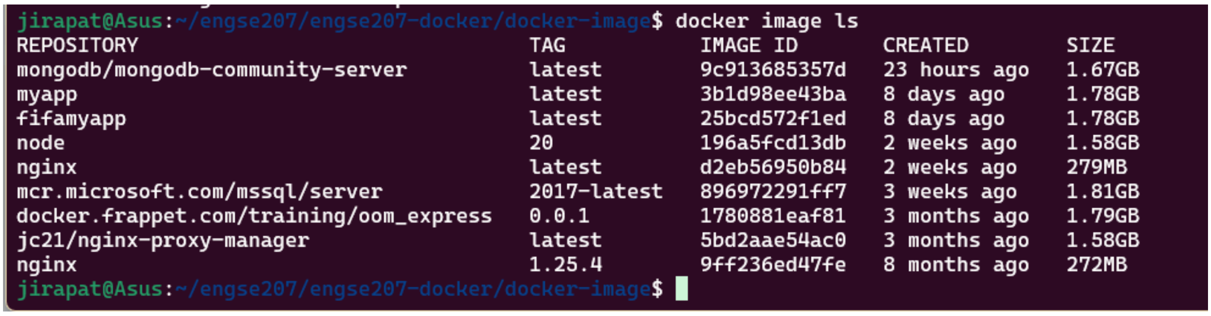


```
wallboarddb> db.log.find()
[
  {
    _id: ObjectId('67133c73d830f347e6fe6911'),
    capped: true,
    size: 5242880,
    max: 5000
  }
]
wallboarddb> show collections
log
wallboarddb> show dbs
admin        132.00 KiB
config        60.00 KiB
local         40.00 KiB
wallboarddb   40.00 KiB
wallboarddb> 
```

ติดตั้ง Nodejs Image and Configuration

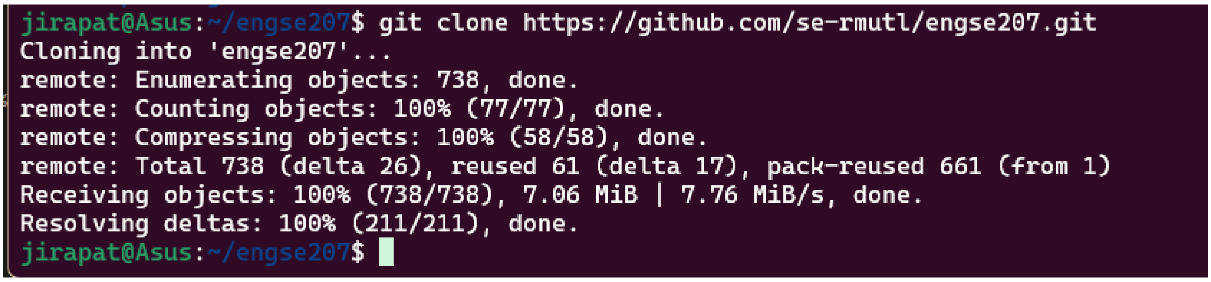


```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker pull node:20
20: Pulling from library/node
e07e01c8fd93: Download complete
8ba0b3d08b81: Download complete
898ee3ab8d89: Download complete
2c430d81b800: Download complete
7d98d813d54f: Download complete
5f57b3eca258: Download complete
27bc85537ac7: Download complete
d0c5f3b3f727: Download complete
Digest: sha256:196a5fcd13db4362fb9c0ec5391db36ec954c65d6b0d0e5d37f59c7dc9920690
Status: Downloaded newer image for node:20
docker.io/library/node:20
```



```
jirapat@Asus:~/engse207/engse207-docker/docker-image$ docker image ls
REPOSITORY                               TAG           IMAGE ID       CREATED         SIZE
mongodb/mongodb-community-server         latest        9c913685357d   23 hours ago    1.67GB
myapp                                    latest        3b1d98ee43ba   8 days ago      1.78GB
fifamyapp                                latest        25bcd572f1ed   8 days ago      1.78GB
node                                     20            196a5fcd13db   2 weeks ago     1.58GB
nginx                                    latest        d2eb56950b84   2 weeks ago     279MB
mcr.microsoft.com/mssql/server           2017-latest   896972291ff7   3 weeks ago     1.81GB
docker.frappet.com/training/oom_express  0.0.1         1780881eaf81   3 months ago    1.79GB
jc21/nginx-proxy-manager                 latest        5bd2aae54ac0   3 months ago    1.58GB
nginx                                    1.25.4        9ff236ed47fe   8 months ago    272MB
jirapat@Asus:~/engse207/engse207-docker/docker-image$
```

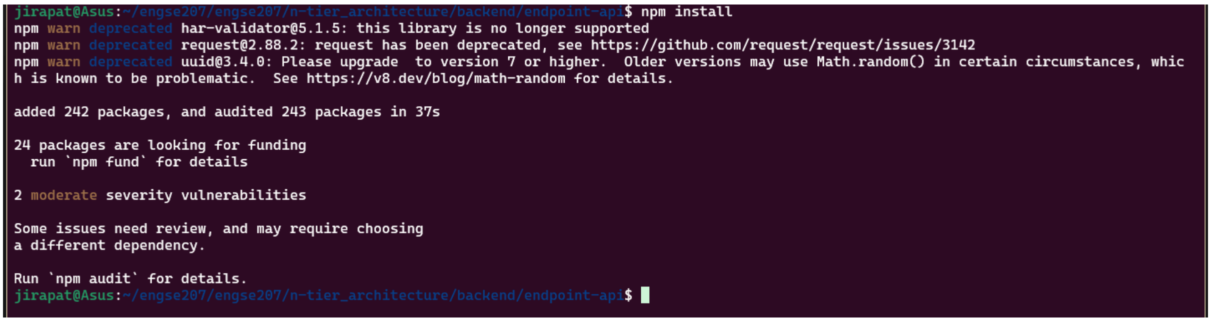
git clone https://github.com/se-rmutl/engse207.git ลงมา



```
jirapat@Asus:~/engse207$ git clone https://github.com/se-rmutl/engse207.git
Cloning into 'engse207'...
remote: Enumerating objects: 738, done.
remote: Counting objects: 100% (77/77), done.
remote: Compressing objects: 100% (58/58), done.
remote: Total 738 (delta 26), reused 61 (delta 17), pack-reused 661 (from 1)
Receiving objects: 100% (738/738), 7.06 MiB | 7.76 MiB/s, done.
Resolving deltas: 100% (211/211), done.
jirapat@Asus:~/engse207$
```

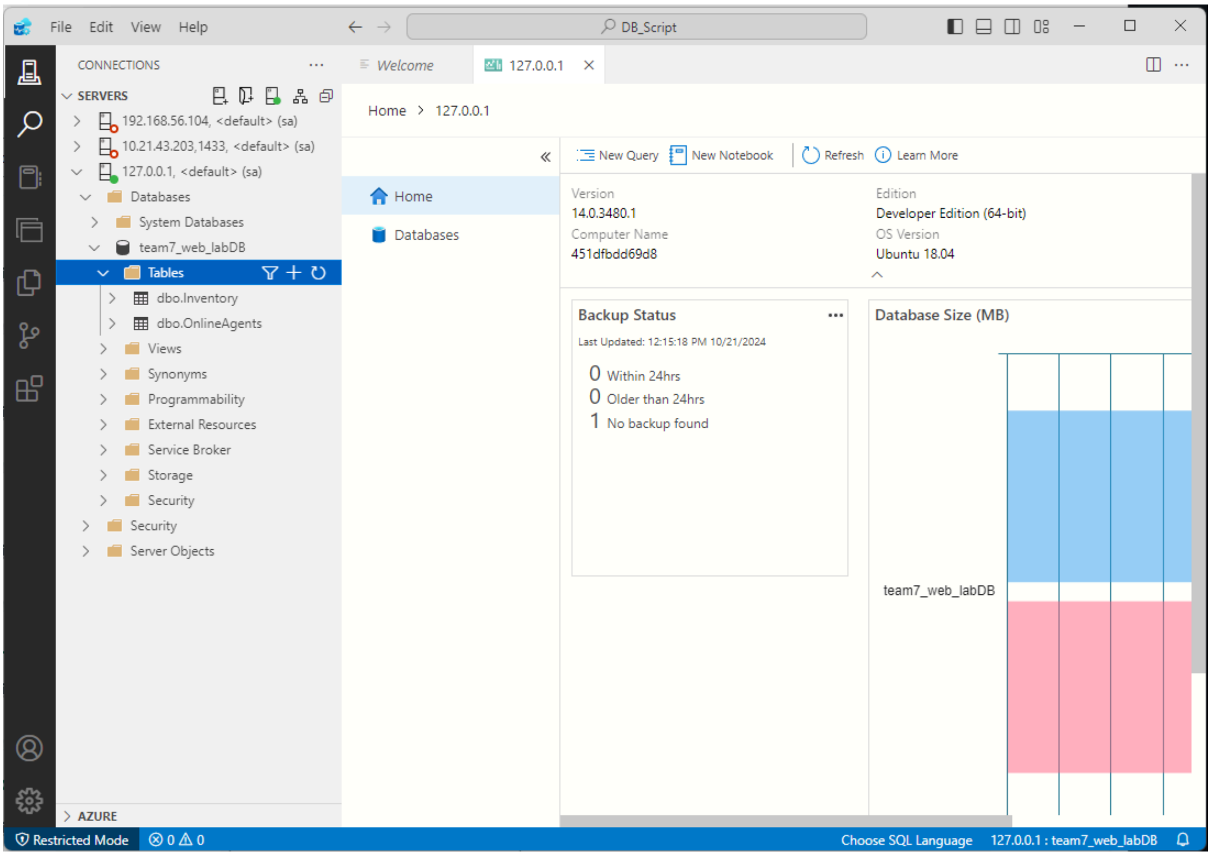
cd เข้าไปที่ engse207/engse207/n-tier_architecture/backend/endpoint-api/

- npm install



```
jirapat@Asus:~/engse207/engse207/n-tier_architecture/backend/endpoint-api$ npm install
npm warn deprecated har-validator@5.1.5: this library is no longer supported
npm warn deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm warn deprecated uuid@3.4.0: Please upgrade  to version 7 or higher.  Older versions may use Math.random() in certain circumstances, whic
h is known to be problematic.  See https://v8.dev/blog/math-random for details.

added 242 packages, and audited 243 packages in 37s

24 packages are looking for funding
  run `npm fund` for details

2 moderate severity vulnerabilities

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.
jirapat@Asus:~/engse207/engse207/n-tier_architecture/backend/endpoint-api$
```

Azure data studio



Version
14.0.3480.1
Computer Name
451dfbdd69d8

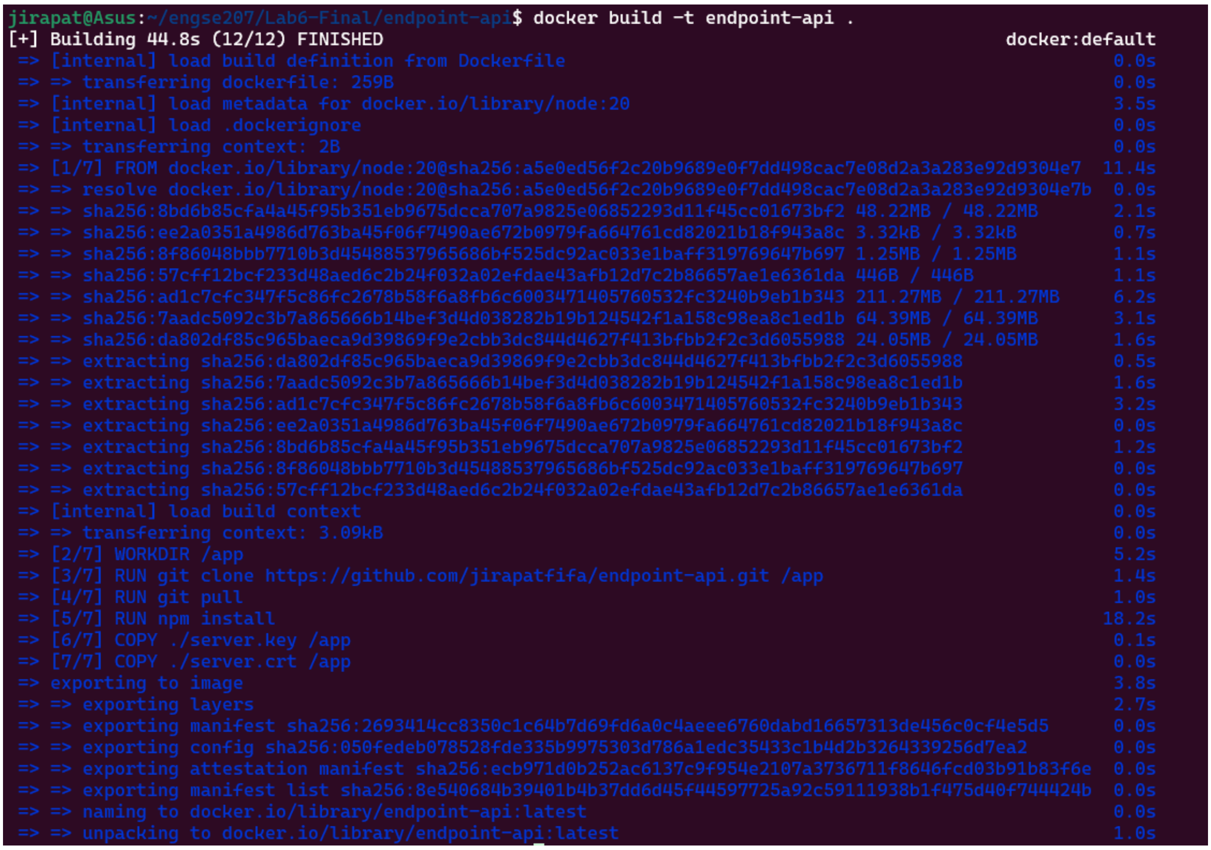
Edition
Developer Edition (64-bit)
OS Version
Ubuntu 18.04

Backup Status
Last Updated: 12:15:18 PM 10/21/2024
0 Within 24hrs
0 Older than 24hrs
1 No backup found

Database Size (MB)

build container endpoint-api

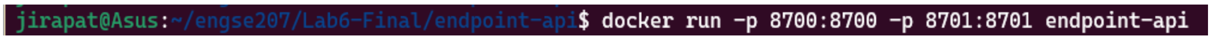
- docker build -t endpoint-api .



```
jirapat@Asus:~/engse207/Lab6-Final/endpoint-api$ docker build -t endpoint-api .
[+] Building 44.8s (12/12) FINISHED                                                              docker:default
 => [internal] load build definition from Dockerfile                                                       0.0s
 => => transferring dockerfile: 259B                                                                       0.0s
 => [internal] load metadata for docker.io/library/node:20                                                 3.5s
 => [internal] load .dockerignore                                                                          0.0s
 => => transferring context: 2B                                                                            0.0s
 => [1/7] FROM docker.io/library/node:20@sha256:a5e0ed56f2c20b9689e0f7dd498cac7e08d2a3a283e92d9304e7  11.4s
 => => resolve docker.io/library/node:20@sha256:a5e0ed56f2c20b9689e0f7dd498cac7e08d2a3a283e92d9304e7b  0.0s
 => => sha256:8bd6b85cfa4a45f95b351eb9675dcca707a9825e06852293d11f45cc01673bf2 48.22MB / 48.22MB       2.1s
 => => sha256:ee2a0351a4986d763ba45f06f7490ae672b0979fa664761cd82021b18f943a8c 3.32kB / 3.32kB         0.7s
 => => sha256:8f86048bbb7710b3d45488537965686bf525dc92ac033e1baff319769647b697 1.25MB / 1.25MB         1.1s
 => => sha256:57cff12bcf233d48aed6c2b24f032a02efdae43afb12d7c2b86657ae1e6361da 446B / 446B             1.1s
 => => sha256:ad1c7cfc347f5c86fc2678b58f6a8fb6c6003471405760532fc3240b9eb1b343 211.27MB / 211.27MB     6.2s
 => => sha256:7aadc5092c3b7a865666b14bef3d4d038282b19b124542f1a158c98ea8c1ed1b 64.39MB / 64.39MB       3.1s
 => => sha256:da802df85c965baeca9d39869f9e2cbb3dc844d4627f413bfb2f2c3d6055988 24.05MB / 24.05MB       1.6s
 => => extracting sha256:da802df85c965baeca9d39869f9e2cbb3dc844d4627f413bfb2f2c3d6055988               0.5s
 => => extracting sha256:7aadc5092c3b7a865666b14bef3d4d038282b19b124542f1a158c98ea8c1ed1b               1.6s
 => => extracting sha256:ad1c7cfc347f5c86fc2678b58f6a8fb6c6003471405760532fc3240b9eb1b343               3.2s
 => => extracting sha256:ee2a0351a4986d763ba45f06f7490ae672b0979fa664761cd82021b18f943a8c               0.0s
 => => extracting sha256:8bd6b85cfa4a45f95b351eb9675dcca707a9825e06852293d11f45cc01673bf2               1.2s
 => => extracting sha256:8f86048bbb7710b3d45488537965686bf525dc92ac033e1baff319769647b697               0.0s
 => => extracting sha256:57cff12bcf233d48aed6c2b24f032a02efdae43afb12d7c2b86657ae1e6361da               0.0s
 => [internal] load build context                                                                          0.0s
 => => transferring context: 3.09kB                                                                        0.0s
 => [2/7] WORKDIR /app                                                                                     5.2s
 => [3/7] RUN git clone https://github.com/jirapatfifa/endpoint-api.git /app                               1.4s
 => [4/7] RUN git pull                                                                                     1.0s
 => [5/7] RUN npm install                                                                                 18.2s
 => [6/7] COPY ./server.key /app                                                                           0.1s
 => [7/7] COPY ./server.crt /app                                                                           0.0s
 => exporting to image                                                                                     3.8s
 => => exporting layers                                                                                    2.7s
 => => exporting manifest sha256:2693414cc8350c1c64b7d69fd6a0c4aeee6760dabd16657313de456c0cf4e5d5          0.0s
 => => exporting config sha256:050fedeb078528fde335b9975303d786a1edc35433c1b4d2b3264339256d7ea2            0.0s
 => => exporting attestation manifest sha256:ecb971d0b252ac6137c9f954e2107a3736711f8646fcd03b91b83f6e  0.0s
 => => exporting manifest list sha256:8e540684b39401b4b37dd6d45f44597725a92c59111938b1f475d40f744424b  0.0s
 => => naming to docker.io/library/endpoint-api:latest                                                     0.0s
 => => unpacking to docker.io/library/endpoint-api:latest                                                  1.0s
```

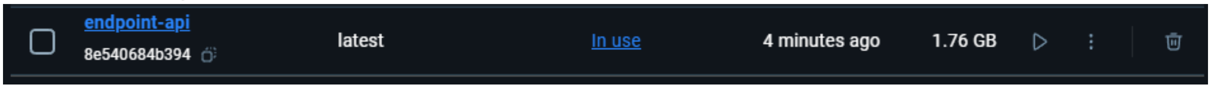
docker run container and port

- docker run -p 8700:8700 -p 8701:8701 endpoint-api



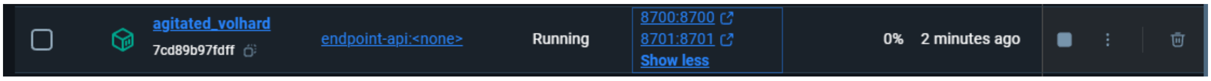
```
jirapat@Asus:~/engse207/Lab6-Final/endpoint-api$ docker run -p 8700:8700 -p 8701:8701 endpoint-api
```

create image dockerfile



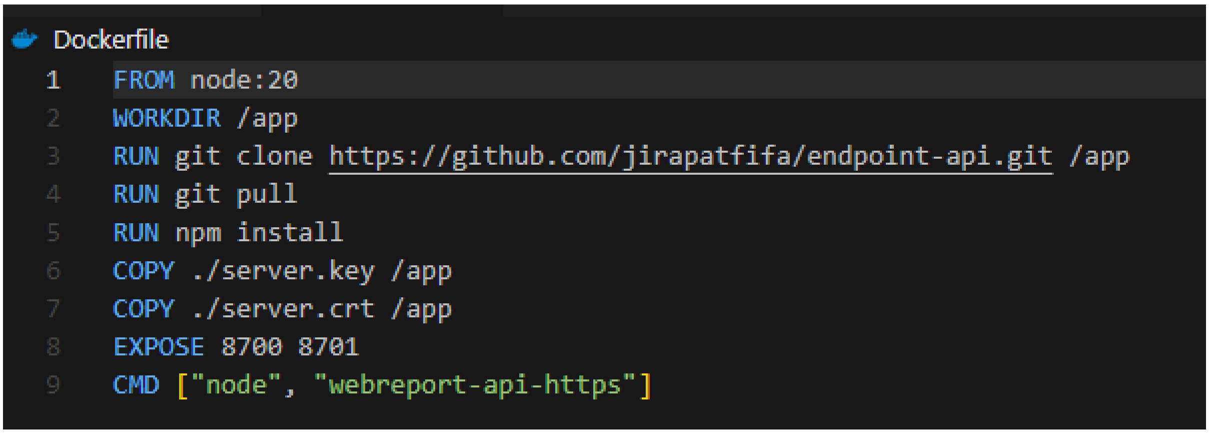
□ endpoint-api 8e540684b394 latest In use 4 minutes ago 1.76 GB

Docker compose with port



□ agitated_volhard 7cd89b97fdff endpoint-api:<none> Running 8700:8700 8701:8701 Show less 0% 2 minutes ago

Dockerfile

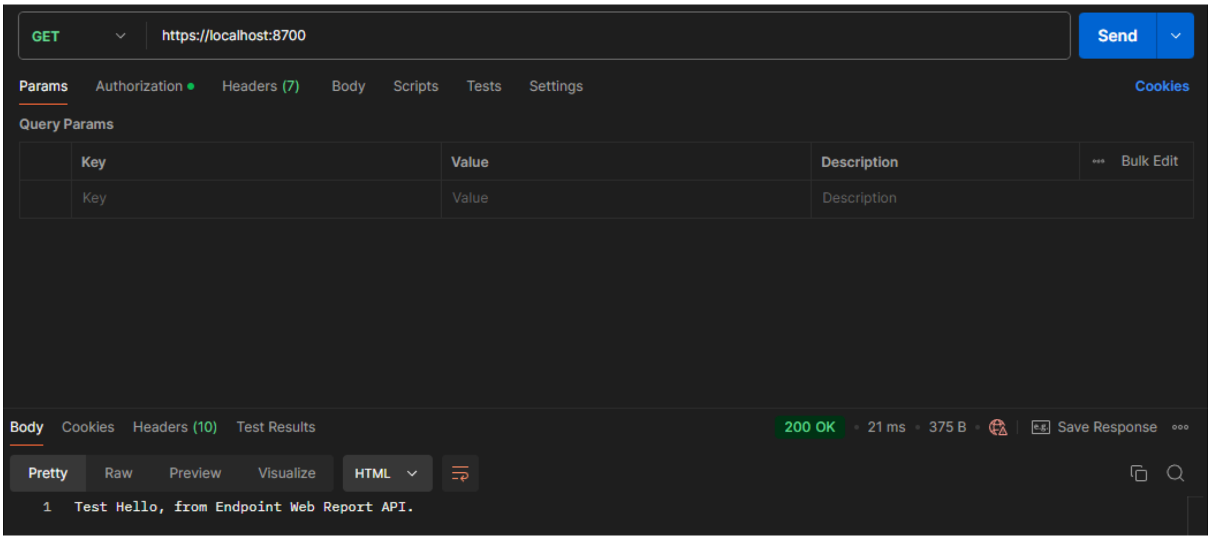


Dockerfile

```dockerfile
FROM node:20
WORKDIR /app
RUN git clone https://github.com/jirapatfifa/endpoint-api.git /app
RUN git pull
RUN npm install
COPY ./server.key /app
COPY ./server.crt /app
EXPOSE 8700 8701
CMD ["node", "webreport-api-https"]
```

Test api

GET https://localhost:8700/



GET https://localhost:8700

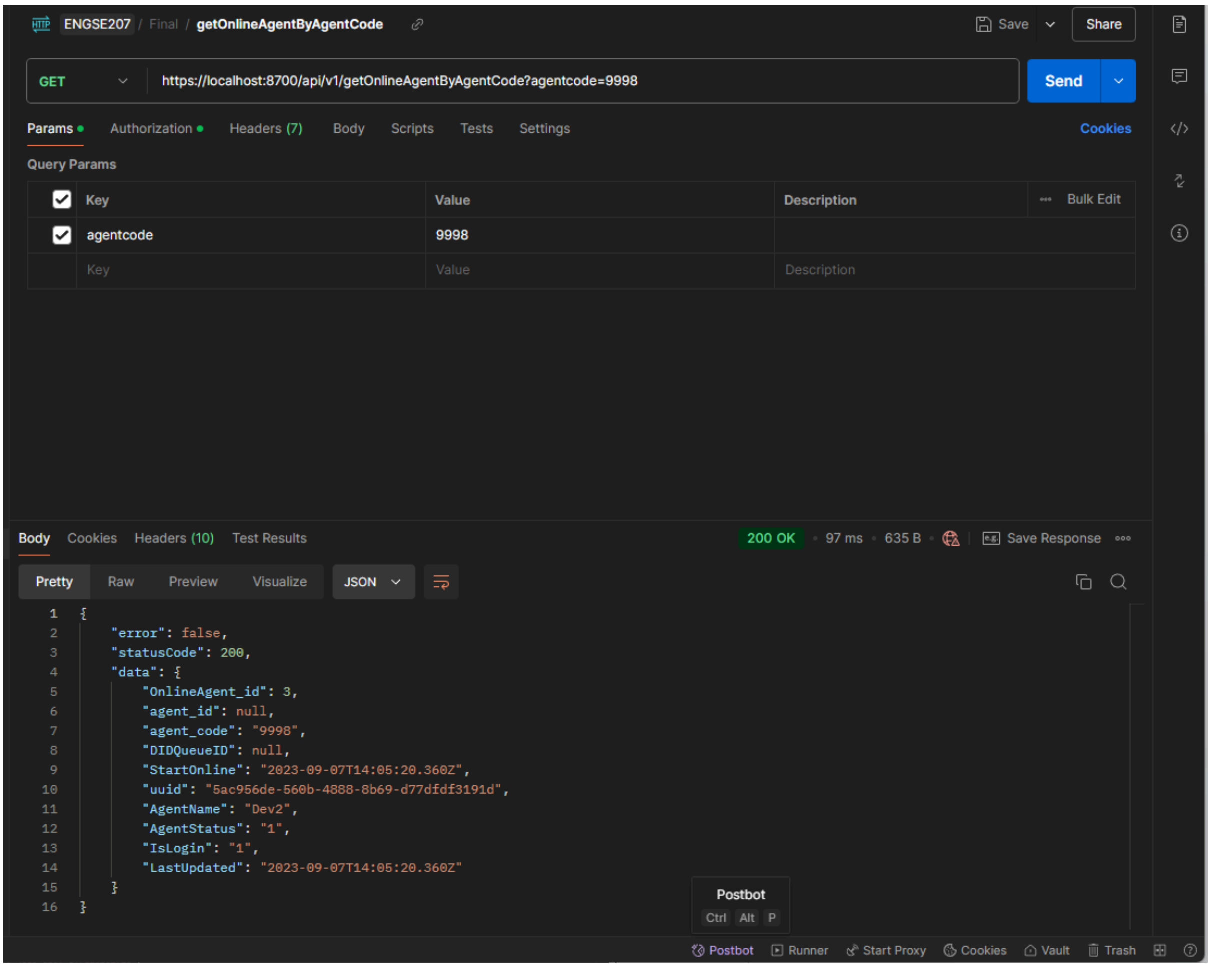
Query Params

Key	Value	Description
Key	Value	Description

200 OK · 21 ms · 375 B

```
Test Hello, from Endpoint Web Report API.
```

GET getOnlineAgentByAgentCode



GET https://localhost:8700/api/v1/getOnlineAgentByAgentCode?agentcode=9998

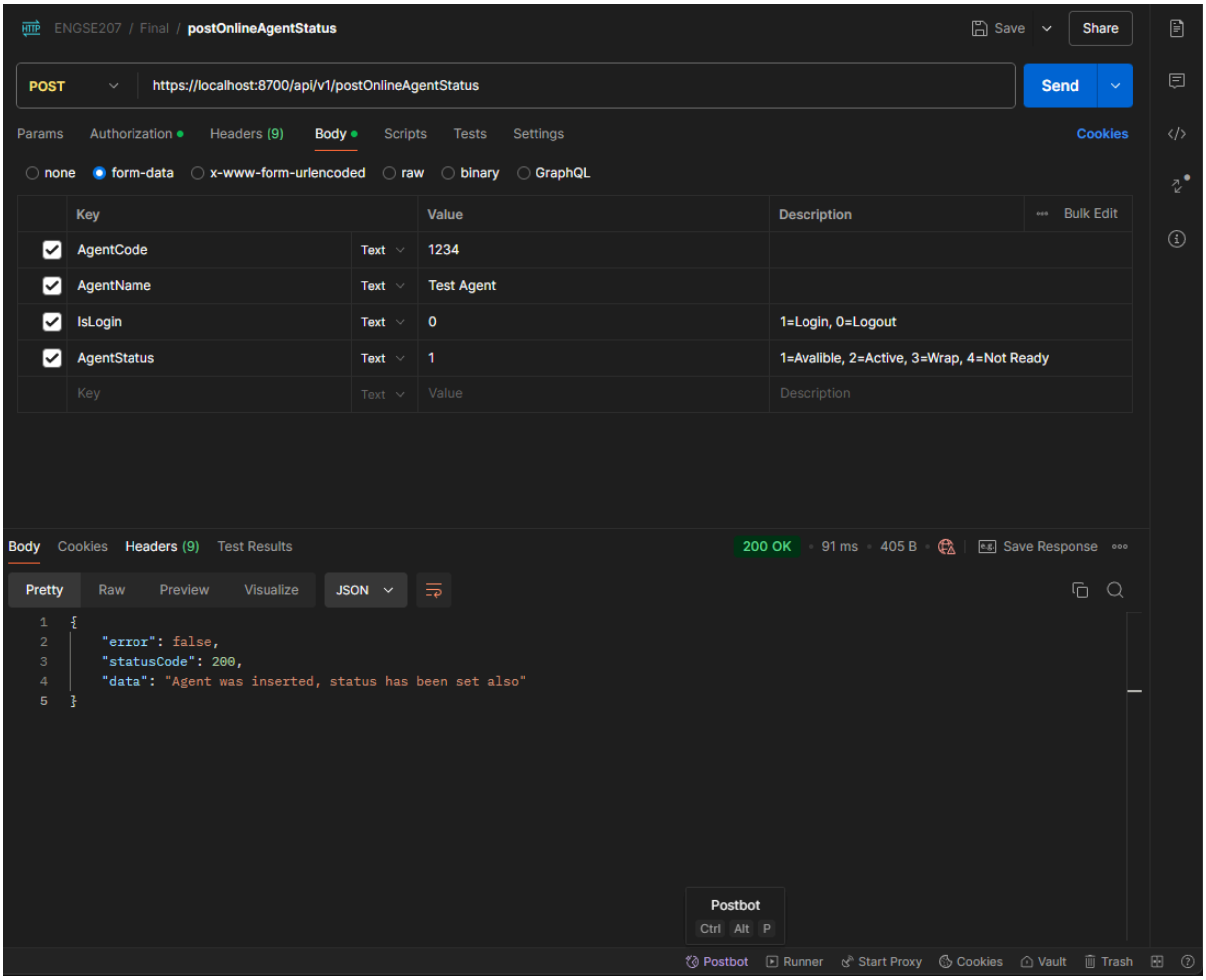
Query Params

	Key	Value	Description
☑	agentcode	9998	
	Key	Value	Description

200 OK · 97 ms · 635 B

```
{
    "error": false,
    "statusCode": 200,
    "data": {
        "OnlineAgent_id": 3,
        "agent_id": null,
        "agent_code": "9998",
        "DIDQueueID": null,
        "StartOnline": "2023-09-07T14:05:20.360Z",
        "uuid": "5ac956de-560b-4888-8b69-d77dfdf3191d",
        "AgentName": "Dev2",
        "AgentStatus": "1",
        "IsLogin": "1",
        "LastUpdated": "2023-09-07T14:05:20.360Z"
    }
}
```

POSE https://localhost:8700/api/v1/postOnlineAgentStatus



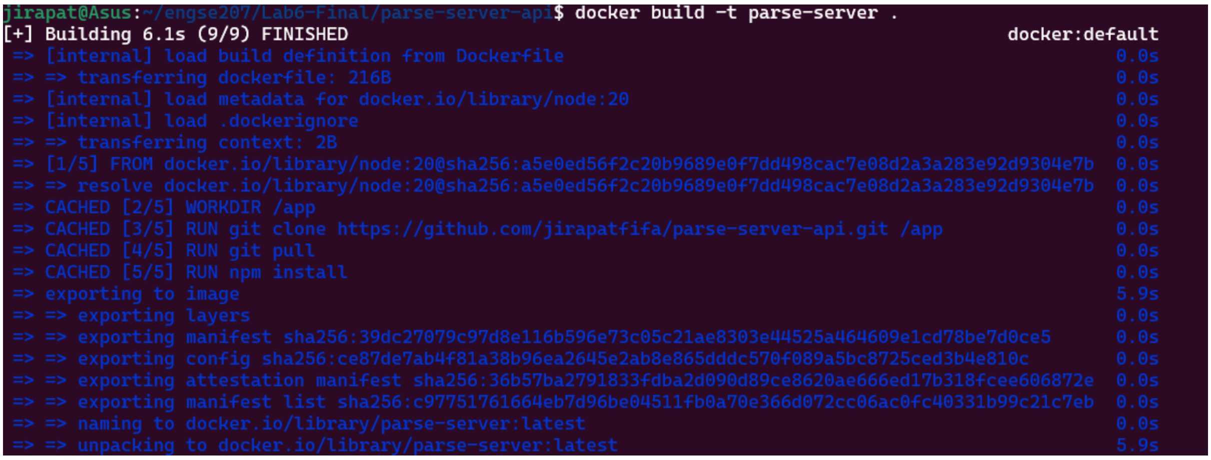
https://localhost:8700/api/v1/postOnlineAgentStatus

○ none ● form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

	Key		Value	Description
☑	AgentCode	Text	1234	
☑	AgentName	Text	Test Agent	
☑	IsLogin	Text	0	1=Login, 0=Logout
☑	AgentStatus	Text	1	1=Avalible, 2=Active, 3=Wrap, 4=Not Ready
	Key	Text	Value	Description

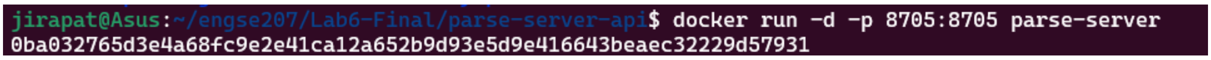
```
{
    "error": false,
    "statusCode": 200,
    "data": "Agent was inserted, status has been set also"
}
```

Parse-server

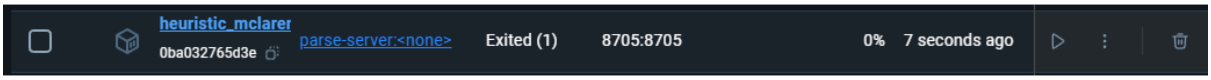


```
jirapat@Asus:~/engse207/Lab6-Final/parse-server-api$ docker build -t parse-server .
[+] Building 6.1s (9/9) FINISHED                                                                   docker:default
 => [internal] load build definition from Dockerfile                                                         0.0s
 => => transferring dockerfile: 216B                                                                         0.0s
 => [internal] load metadata for docker.io/library/node:20                                                   0.0s
 => [internal] load .dockerignore                                                                            0.0s
 => => transferring context: 2B                                                                              0.0s
 => [1/5] FROM docker.io/library/node:20@sha256:a5e0ed56f2c20b9689e0f7dd498cac7e08d2a3a283e92d9304e7b      0.0s
 => => resolve docker.io/library/node:20@sha256:a5e0ed56f2c20b9689e0f7dd498cac7e08d2a3a283e92d9304e7b      0.0s
 => CACHED [2/5] WORKDIR /app                                                                                0.0s
 => CACHED [3/5] RUN git clone https://github.com/jirapatfifa/parse-server-api.git /app                     0.0s
 => CACHED [4/5] RUN git pull                                                                                0.0s
 => CACHED [5/5] RUN npm install                                                                             0.0s
 => exporting to image                                                                                       5.9s
 => => exporting layers                                                                                      0.0s
 => => exporting manifest sha256:39dc27079c97d8e116b596e73c05c21ae8303e44525a464609e1cd78be7d0ce5          0.0s
 => => exporting config sha256:ce87de7ab4f81a38b96ea2645e2ab8e865dddc570f089a5bc8725ced3b4e810c            0.0s
 => => exporting attestation manifest sha256:36b57ba2791833fdba2d090d89ce8620ae666ed17b318fcee606872e      0.0s
 => => exporting manifest list sha256:c97751761664eb7d96be04511fb0a70e366d072cc06ac0fc40331b99c21c7eb      0.0s
 => => naming to docker.io/library/parse-server:latest                                                       0.0s
 => => unpacking to docker.io/library/parse-server:latest                                                    5.9s
```

docker run -d -p 8705:8705 parse-server

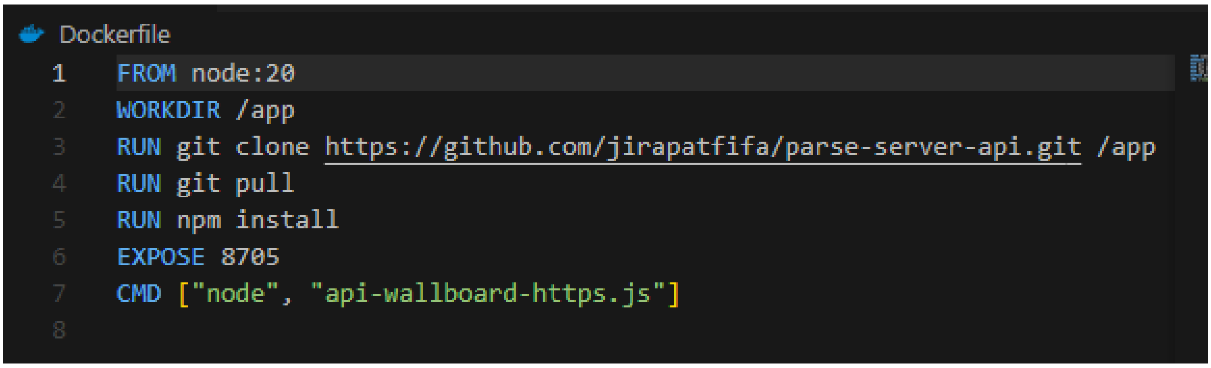


```
jirapat@Asus:~/engse207/Lab6-Final/parse-server-api$ docker run -d -p 8705:8705 parse-server
0ba032765d3e4a68fc9e2e41ca12a652b9d93e5d9e416643beaec32229d57931
```



□ heuristic_mclarer 0ba032765d3e parse-server:<none> Exited (1) 8705:8705 0% 7 seconds ago

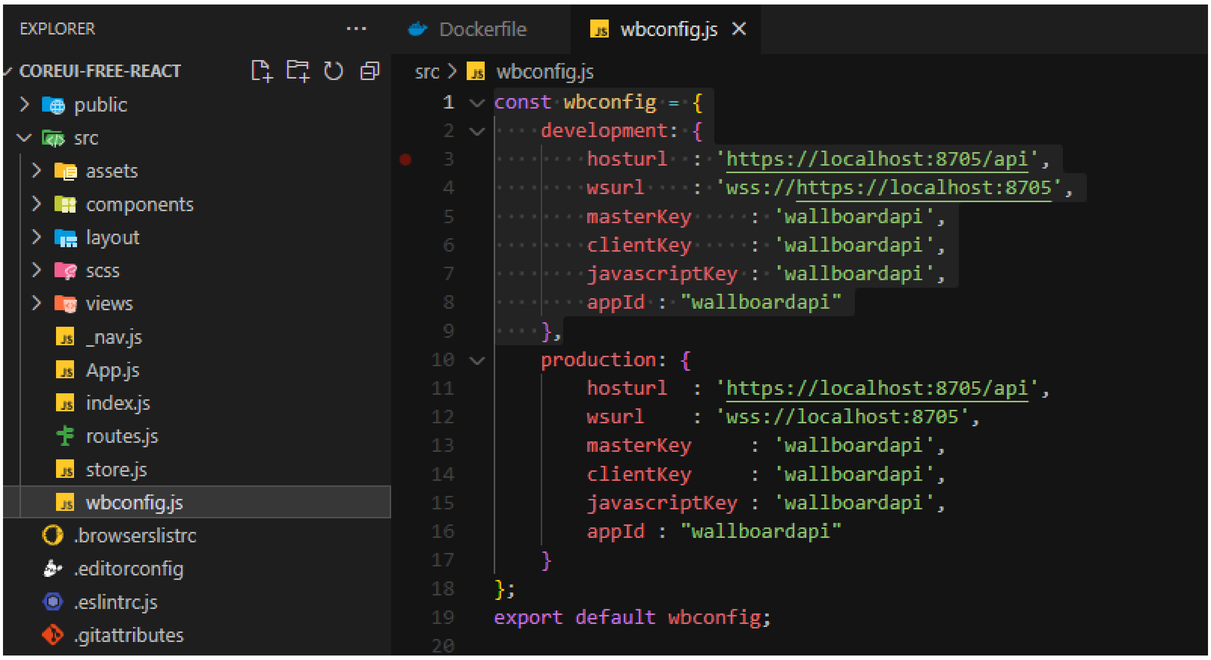
Dockerfile



Dockerfile

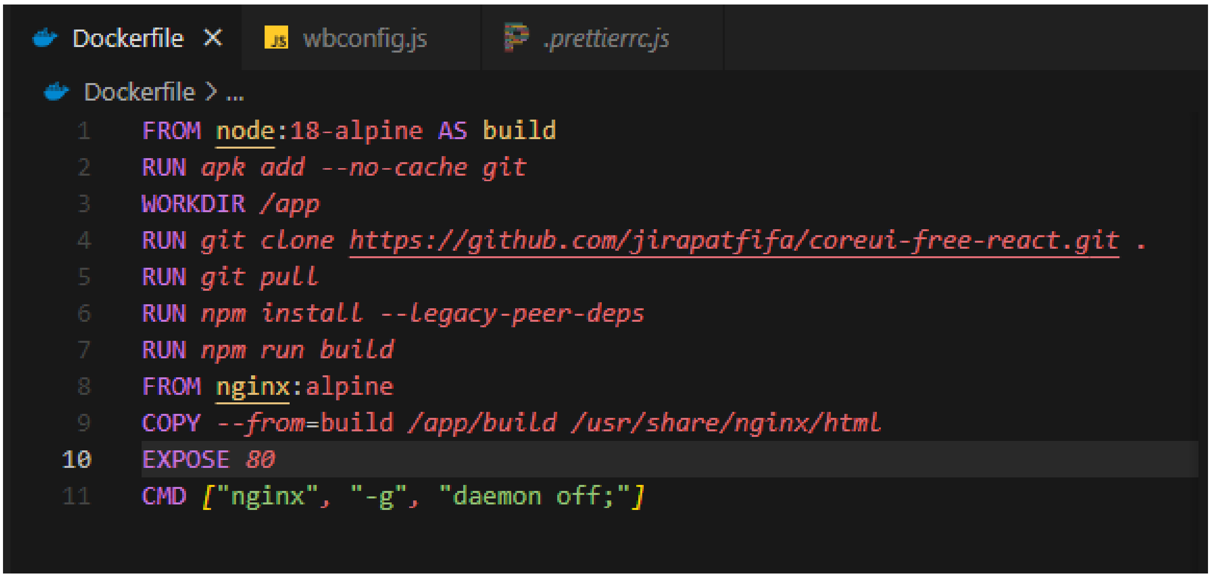
```
FROM node:20
WORKDIR /app
RUN git clone https://github.com/jirapatfifa/parse-server-api.git /app
RUN git pull
RUN npm install
EXPOSE 8705
CMD ["node", "api-wallboard-https.js"]

```

React



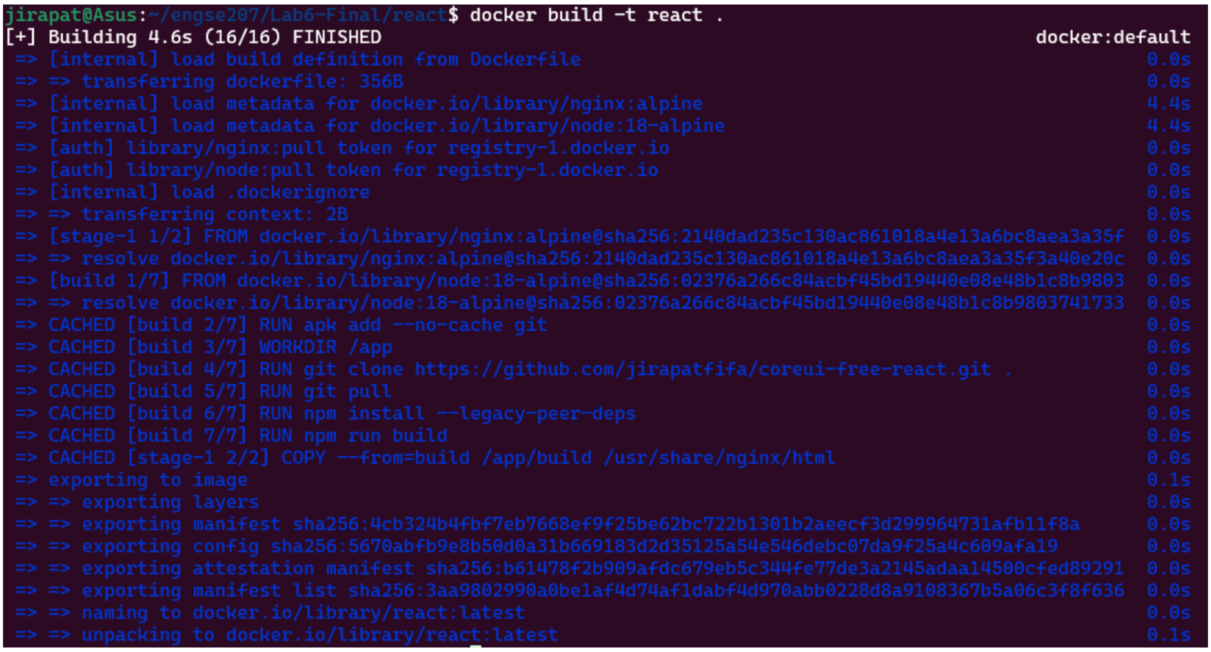
```javascript
const wbconfig = {
    development: {
        hosturl  : 'https://localhost:8705/api',
        wsurl    : 'wss://https://localhost:8705',
        masterKey     : 'wallboardapi',
        clientKey     : 'wallboardapi',
        javascriptKey : 'wallboardapi',
        appId : "wallboardapi"
    },
    production: {
        hosturl  : 'https://localhost:8705/api',
        wsurl    : 'wss://localhost:8705',
        masterKey     : 'wallboardapi',
        clientKey     : 'wallboardapi',
        javascriptKey : 'wallboardapi',
        appId : "wallboardapi"
    }
};
export default wbconfig;

```

Dockerfile



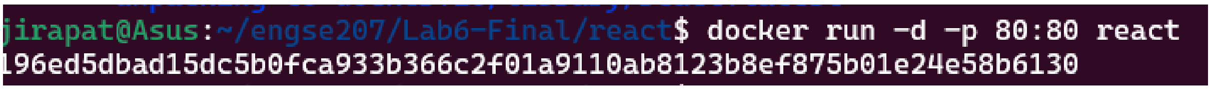
```dockerfile
FROM node:18-alpine AS build
RUN apk add --no-cache git
WORKDIR /app
RUN git clone https://github.com/jirapatfifa/coreui-free-react.git .
RUN git pull
RUN npm install --legacy-peer-deps
RUN npm run build
FROM nginx:alpine
COPY --from=build /app/build /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

Docker build -t react



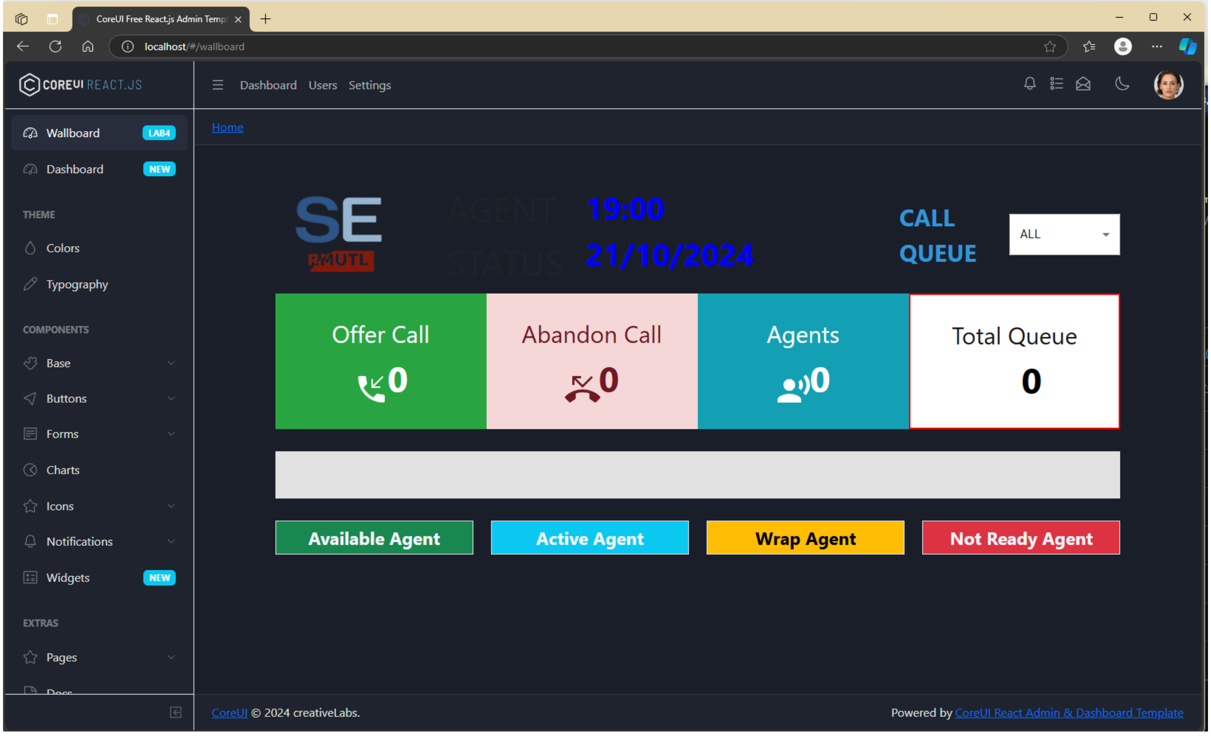
```
jirapat@Asus:~/engse207/Lab6-Final/react$ docker build -t react .
[+] Building 4.6s (16/16) FINISHED                                                      docker:default
 => [internal] load build definition from Dockerfile                                              0.0s
 => => transferring dockerfile: 356B                                                              0.0s
 => [internal] load metadata for docker.io/library/nginx:alpine                                   4.4s
 => [internal] load metadata for docker.io/library/node:18-alpine                                 4.4s
 => [auth] library/nginx:pull token for registry-1.docker.io                                      0.0s
 => [auth] library/node:pull token for registry-1.docker.io                                       0.0s
 => [internal] load .dockerignore                                                                 0.0s
 => => transferring context: 2B                                                                   0.0s
 => [stage-1 1/2] FROM docker.io/library/nginx:alpine@sha256:2140dad235c130ac861018a4e13a6bc8aea3a35f  0.0s
 => => resolve docker.io/library/nginx:alpine@sha256:2140dad235c130ac861018a4e13a6bc8aea3a35f3a40e20c  0.0s
 => [build 1/7] FROM docker.io/library/node:18-alpine@sha256:02376a266c84acbf45bd19440e08e48b1c8b9803  0.0s
 => => resolve docker.io/library/node:18-alpine@sha256:02376a266c84acbf45bd19440e08e48b1c8b9803741733  0.0s
 => CACHED [build 2/7] RUN apk add --no-cache git                                                 0.0s
 => CACHED [build 3/7] WORKDIR /app                                                               0.0s
 => CACHED [build 4/7] RUN git clone https://github.com/jirapatfifa/coreui-free-react.git .       0.0s
 => CACHED [build 5/7] RUN git pull                                                               0.0s
 => CACHED [build 6/7] RUN npm install --legacy-peer-deps                                         0.0s
 => CACHED [build 7/7] RUN npm run build                                                          0.0s
 => CACHED [stage-1 2/2] COPY --from=build /app/build /usr/share/nginx/html                       0.0s
 => exporting to image                                                                            0.1s
 => => exporting layers                                                                           0.0s
 => => exporting manifest sha256:4cb324b4fbf7eb7668ef9f25be62bc722b1301b2aeecf3d299964731afb11f8a   0.0s
 => => exporting config sha256:5670abfb9e8b50d0a31b669183d2d35125a54e546debc07da9f25a4c609afa19     0.0s
 => => exporting attestation manifest sha256:b61478f2b909afdc679eb5c344fe77de3a2145adaa14500cfed89291  0.0s
 => => exporting manifest list sha256:3aa9802990a0be1af4d74af1dabf4d970abb0228d8a9108367b5a06c3f8f636  0.0s
 => => naming to docker.io/library/react:latest                                                   0.0s
 => => unpacking to docker.io/library/react:latest                                                0.1s
```

run container port 80:80

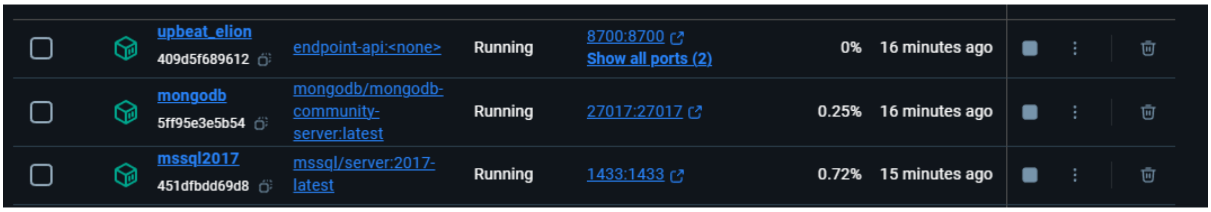


```
jirapat@Asus:~/engse207/Lab6-Final/react$ docker run -d -p 80:80 react
196ed5dbad15dc5b0fca933b366c2f01a9110ab8123b8ef875b01e24e58b6130
```

Web Page



Docker container



□	upbeat_elion 409d5f689612	endpoint-api:<none>	Running	8700:8700 Show all ports (2)	0%	16 minutes ago
□	mongodb 5ff95e3e5b54	mongodb/mongodb-community-server:latest	Running	27017:27017	0.25%	16 minutes ago
□	mssql2017 451dfbdd69d8	mssql/server:2017-latest	Running	1433:1433	0.72%	15 minutes ago