

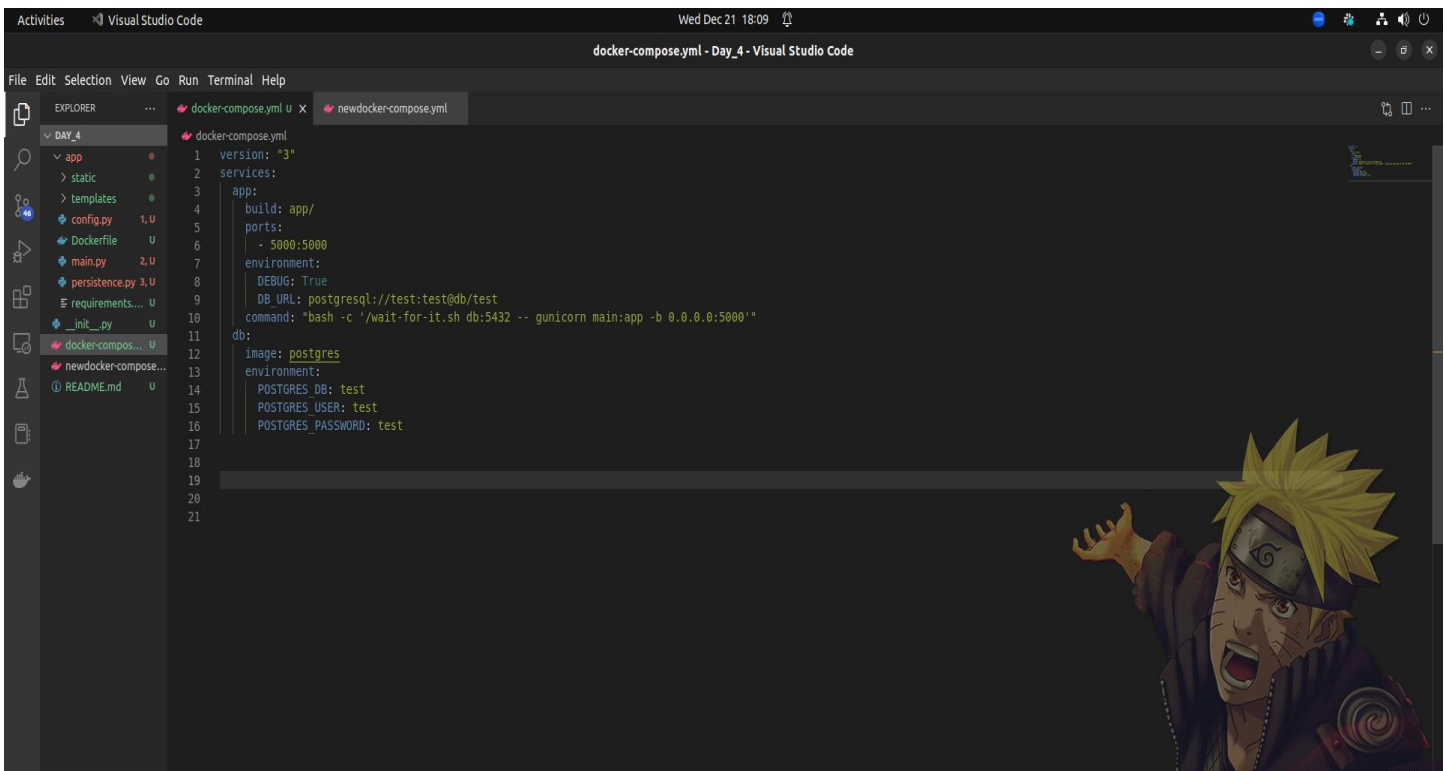
ASSIGNMENT 4.4

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Paired With

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Docker File Code with Port 5000

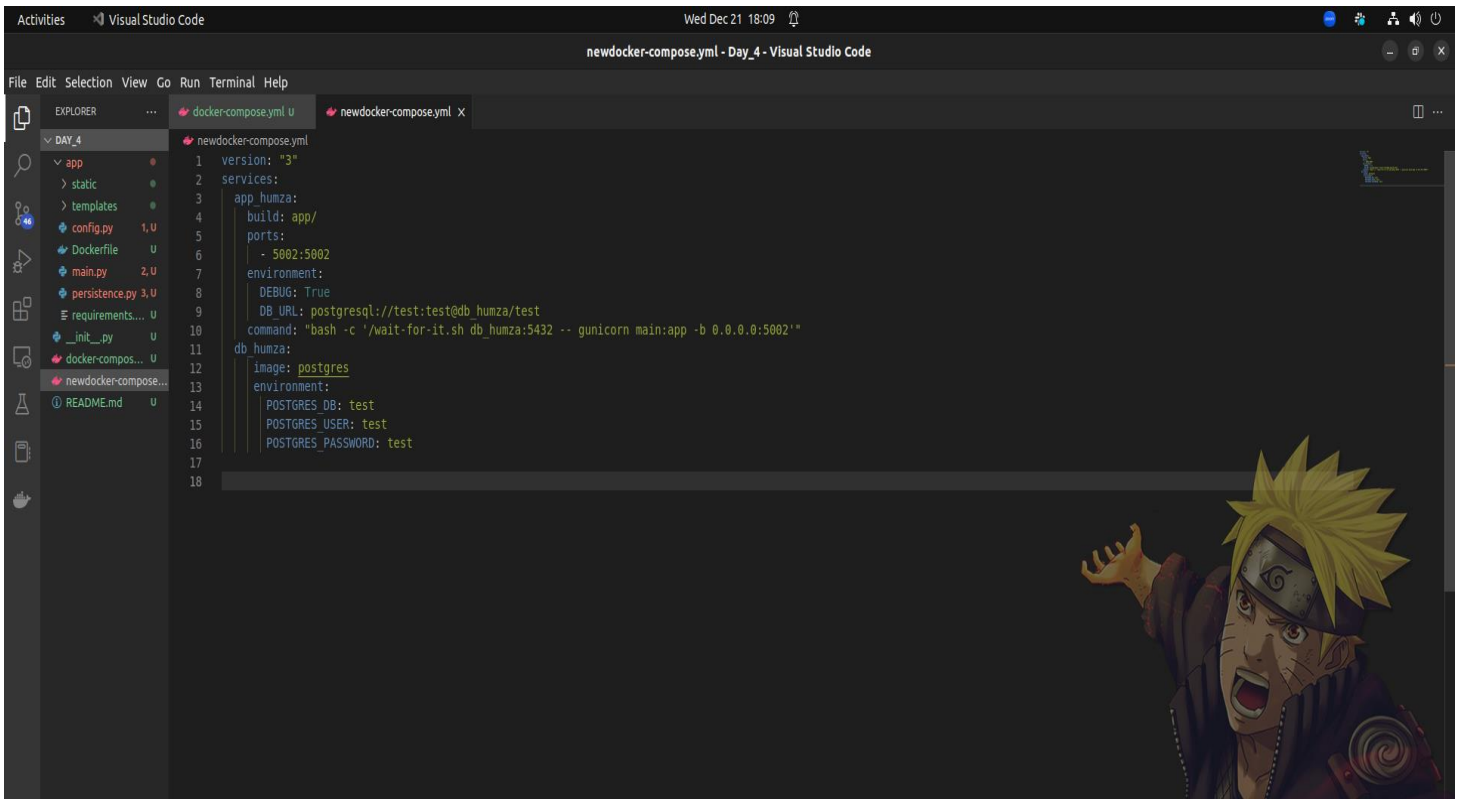


The screenshot shows the Visual Studio Code interface with a Docker Compose file open. The file is named `docker-compose.yml` and is located in the `Day_4` directory. The file content is as follows:

```
1 version: "3"
2 services:
3   app:
4     build: app/
5     ports:
6       - 5000:5000
7     environment:
8       DEBUG: True
9       DB_URL: postgresql://test:test@db/test
10    command: "bash -c '/wait-for-it.sh db:5432 -- gunicorn main:app -b 0.0.0.0:5000'"
11  db:
12    image: postgres
13    environment:
14      POSTGRES_DB: test
15      POSTGRES_USER: test
16      POSTGRES_PASSWORD: test
```

The Explorer sidebar on the left shows the file structure of the `Day_4` directory, including `app`, `static`, `templates`, `config.py`, `Dockerfile`, `main.py`, `persistence.py`, `requirements.txt`, `__init__.py`, `docker-compose.yml`, `newdocker-compose.yml`, and `README.md`. A Naruto character overlay is visible in the bottom right corner of the editor area.

Docker File Code with Port 5002



Docker compose command

```
● muhammadhumza@all-MS-7D35:~/my_practice/code_practice/Module_4/Assignment/Day_4$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
● muhammadhumza@all-MS-7D35:~/my_practice/code_practice/Module_4/Assignment/Day_4$ docker compose -f newdocker-compose.yml -f docker-compose.yml up -d
[+] Running 5/5
  :: Network day_4_default      Created
  :: Container day_4-db_humza-1 Started
  :: Container day_4-app_humza-1 Started
  :: Container day_4-app-1      Started
  :: Container day_4-db-1       Started
```

DOCKER CONTAINERS

```
muhammadhumza@all-MS-7035:~/my_practice/code_practice/Module_4/Assignment/Day_4$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
1af427d0352c	postgres	"docker-entrypoint.s..."	6 seconds ago	Up 5 seconds	5432/tcp	day_4-db-1
800bc0a7bdff	day_4-app	"bash -c '/wait-for-..."	6 seconds ago	Up 5 seconds	0.0.0.0:5000->5000/tcp, :::5000->5000/tcp	day_4-app-1
8524af3cab15	postgres	"docker-entrypoint.s..."	26 seconds ago	Up 16 seconds	5432/tcp	day_4-db_humza-1
dbfc358d7029	day_4-app_humza	"bash -c '/wait-for-..."	26 seconds ago	Up 16 seconds	0.0.0.0:5002->5002/tcp, :::5002->5002/tcp	day_4-app_humza-1

Postgres At Port 5000

TODO items has value “Humza database 1”

Activities Google Chrome Wed Dec 21 18:17

0.0.0.0:5000 x +

← → ↻ Not secure | 0.0.0.0:5000

← ☆ □ 👤 ⋮

Add TODO item

Please provide the TODO item content

Submit

TODO items

Humza database 1

Humza database 1

Postgres At Port 5002

TODO items has value “Humza Database 2”

Activities Google Chrome Wed Dec 21 18:17

0.0.0.0:5002 x +

← → Not secure | 0.0.0.0:5002

Add TODO item

Please provide the TODO item content

Submit

TODO items

Humza Database 2

Humza Database 2

Terminal Verification of both databases with different TODO items values

```
muhammadhumza@all-MS-7035:~/my_practice/code_practice/Module_4/Assignment/Day_4$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
1af427d0352c   postgres      "docker-entrypoint.s..." 9 minutes ago  Up 9 minutes  5432/tcp                           day_4-db-1
800bc0a7bdff   day_4-app     "bash -c '/wait-for-..." 9 minutes ago  Up 9 minutes  0.0.0.0:5000->5000/tcp, :::5000->5000/tcp  day_4-app-1
8524af3cab15   postgres      "docker-entrypoint.s..." 9 minutes ago  Up 9 minutes  5432/tcp                           day_4-db_humza-1
dbfc358d7029   day_4-app_humza "bash -c '/wait-for-..." 9 minutes ago  Up 9 minutes  0.0.0.0:5002->5002/tcp, :::5002->5002/tcp  day_4-app_humza-1
muhammadhumza@all-MS-7035:~/my_practice/code_practice/Module_4/Assignment/Day_4$ sudo docker exec -it 1af427d0352c psql -U test -W
Password:
psql (15.1 (Debian 15.1-1.pgdg110+1))
Type "help" for help.

test=# \dt
          List of relations
 Schema | Name      | Type | Owner
-----+-----+-----+-----
 public | todo_item | table | test
(1 row)

test=# SELECT * FROM todo_item;
 id | content
----+-----
  1 | Humza database 1
  2 | Humza database 1
(2 rows)

test=# EXIT
muhammadhumza@all-MS-7035:~/my_practice/code_practice/Module_4/Assignment/Day_4$ sudo docker exec -it 8524af3cab15 psql -U test -W
Password:
psql (15.1 (Debian 15.1-1.pgdg110+1))
Type "help" for help.

test=# \dt
          List of relations
 Schema | Name      | Type | Owner
-----+-----+-----+-----
 public | todo_item | table | test
(1 row)

test=# SELECT * FROM todo_item;
 id | content
----+-----
  1 | Humza Database 2
  2 | Humza Database 2
(2 rows)

test=#
```