



## Requirement.txt

```
flask
mysql-connector-python
```

3,0-1 All

## Dockerfile

```
# Use official Python image
FROM python:3.9

WORKDIR /app

# Install dependencies
COPY requirements.txt .
RUN pip install -r requirements.txt

# Copy app code
COPY . .

# Run the app
CMD ["python", "app.py"]
```

15,0-1 All

## Docker-compose.yml

```
version: '3.8'

services:
  web:
    build: .
    ports:
      - "5000:5000"
    depends_on:
      - db
  db:
    image: mysql:5.7
    environment:
      MYSQL_ROOT_PASSWORD: rootpass
      MYSQL_DATABASE: mydb
      MYSQL_USER: user
      MYSQL_PASSWORD: userpass
    ports:
      - "3306:3306"
```

20,0-1 All

```

docker.errors.DockerException: Error while fetching server API version: ('Connection aborted.', PermissionError(13, 'Permission denied'))
ubuntu@ip-172-31-83-9:~/myapp$ sudo docker-compose up --build
Creating network "myapp_default" with the default driver
Pulling db (mysql:5.7)...
5.7: Pulling from library/mysql
20e4dcae4c69: Pull complete
1c56c3d4ce74: Pull complete
e9f03a1c24ce: Pull complete
68c3898c2015: Pull complete
6b95a940e7b6: Pull complete
90986bb8de6e: Pull complete
ae71319cb779: Pull complete
ffc89e9dfd88: Pull complete
43d05e938198: Pull complete
064b2d298fba: Pull complete
df9a4d85569b: Pull complete
Digest: sha256:4bc6bc963e6d8443453676cae56536f4b8156d78bae03c0145cbe47c2aad73bb
Status: Downloaded newer image for mysql:5.7
Building web
[+] Building 34.8s (10/10) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile                0.1s
=> => transferring dockerfile: 248B                               0.0s

```

### i-0d484405ad1af418d (Bash Scripting)

PublicIPs: 54.235.236.105 PrivateIPs: 172.31.83.9

```

Creating myapp_web_1 ... done
Attaching to myapp_db_1, myapp_web_1
db_1 | 2025-06-18 15:41:44+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.44-1.el7 started.
db_1 | 2025-06-18 15:41:45+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
db_1 | 2025-06-18 15:41:45+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.44-1.el7 started.
web_1 | * Serving Flask app 'app'
web_1 | * Debug mode: off
web_1 | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
web_1 | * Running on all addresses (0.0.0.0)
web_1 | * Running on http://127.0.0.1:5000
web_1 | * Running on http://172.18.0.3:5000
web_1 | Press CTRL+C to quit
db_1 | 2025-06-18 15:41:46+00:00 [Note] [Entrypoint]: Initializing database files
db_1 | 2025-06-18T15:41:46.250605Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
db_1 | 2025-06-18T15:41:47.098378Z 0 [Warning] InnoDB: New log files created, LSN=45790
db_1 | 2025-06-18T15:41:47.346593Z 0 [Warning] InnoDB: Creating foreign key constraint system tables.
db_1 | 2025-06-18T15:41:47.415399Z 0 [Warning] No existing UUID has been found, so we assume that this is the first time that this server has been started. Generating a new UUID: be6e516b-4c5a-11f0-acd3-0e124984803b.
db_1 | 2025-06-18T15:41:47.417902Z 0 [Warning] Gtid table is not ready to be used. Table 'mysql.gtid_executed' cannot be opened.
db_1 | 2025-06-18T15:41:47.680773Z 0 [Warning] A deprecated TLS version TLSv1 is enabled. Please use TLSv1.2 or higher.
db_1 | 2025-06-18T15:41:47.681418Z 0 [Warning] A deprecated TLS version TLSv1.1 is enabled. Please use TLSv1.2 or higher.

```

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Hello from Flask and MySQL!