

Question 2

Steps

1)

Create directory and in that directory add the files:

App.py:

```
from flask import Flask
from redis import Redis
```

```
app = Flask(__name__)
redis = Redis(host='redis', port=6379)
```

```
@app.route('/')
def hello():
    redis.incr('hits')
    return 'This Compose/Flask demo has been viewed %s time(s).' % redis.get('hits')
```

```
if __name__ == "__main__":
    app.run(host="0.0.0.0", debug=True)
```

Docker-compose.yml:

```
version: '3.2'
services:
  web:
    build: .
    ports:
      - "5000:5000"
    volumes:
      - flask-volume:/code

    depends_on:
      - redis
  redis:
    image: redis
volumes:
  flask-volume:
    external: false
```

DOCKERFILE:

FROM ubuntu:16.04

RUN apt-get update -y

RUN apt-get install -y python-pip python-dev build-essential

ADD . /code

WORKDIR /code

RUN pip install -r requirements.txt

CMD python app.py

Requirements.txt:

flask

redis

2)

Run the docker-compose file as:

docker -compose up

