

Docker-Compose Hands-On

Adfinis**sy**Group

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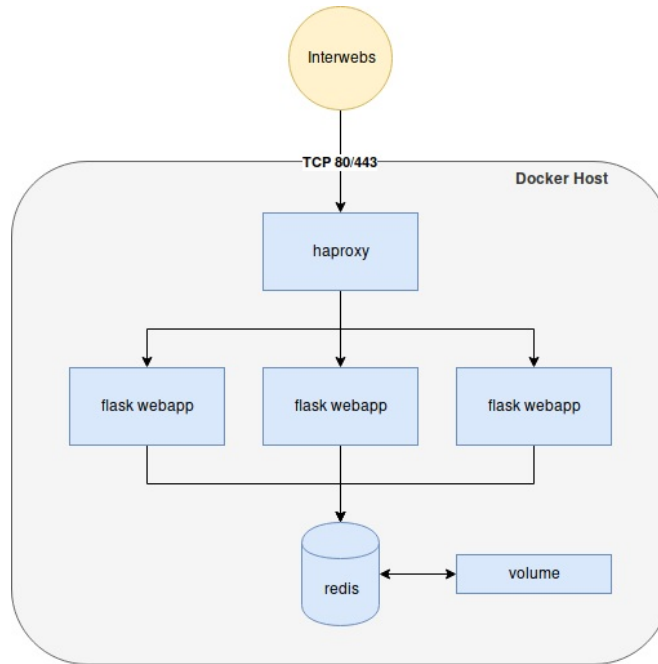
Docker-Compose Hands-On

Your first compose file

Use what you learned until now to write your first compose file

- Create a simple flask application from source
- Scale it to 3 replicas
- The webapp containers should be served by an haproxy
- The webapp containers should be linked to a redis container

Architecture design



Important informations

- **haproxy**: take the `adfinissygroup/haproxy` image
- **webapp**: you can find the source code in the next slide
- **redis**: take the official `redis` image
- **redis volume**: map a directory in your home to `/data`

Web app source code

./app.py

```
#!/usr/bin/env python

from flask import Flask
import socket,redis,os

r=redis.Redis(host=os.getenv("REDIS_PORT_6379_TCP_ADDR"),port=os.getenv("REDIS_PORT_6379_TCP_PORT"))
r.set("count",0)

app = Flask(__name__)

@app.route("/")
def index():
    r.incr("count")
    return "Visit number %d\nHostname: %s\n" % (int(r.get("count")),socket.gethostname())

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

Web app Dockerfile

./Dockerfile

```
FROM python
RUN pip install flask redis
WORKDIR /
COPY app.py /
EXPOSE 5000
CMD python app.py
```


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