

AWS Deployment

AWS deployment was done manually. As part of the setup, dockerfiles were created for the frontend and backend with a docker-compose written to pull them together into one deployable service.

```
FROM maven:3.5.2-jdk-8-alpine AS MAVEN_BUILD
MAINTAINER Rylee Randall
COPY pom.xml /build/
COPY src /build/src/
WORKDIR /build/
RUN mvn package -DskipTests
FROM openjdk:8-jre-alpine
WORKDIR /app
COPY --from=MAVEN_BUILD /build/target/appointment-service-backend-0.0.1-SNAPSHOT.jar /app/app.jar
EXPOSE 8080
ENTRYPOINT ["java", "-jar", "app.jar"]
```

```
# build environment
FROM node:12.4.0-alpine as build
WORKDIR /app
ENV PATH /app/node_modules/.bin:$PATH
COPY package.json /app/package.json
RUN npm install --silent
RUN npm install react-scripts@3.0.1 -g --silent
COPY . /app
ENV REACT_APP_PROD true
RUN npm run build

# production environment
FROM nginx:1.16.0-alpine
COPY --from=build /app/build /usr/share/nginx/html
RUN rm /etc/nginx/conf.d/default.conf
COPY ./nginx/nginx.conf /etc/nginx/conf.d
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

```

version: "3"
services:
  backend:
    image: "sept/backend"
    build:
      context: "../Backend/appointment-service-backend"
    container_name: "backend"
    ports:
      - "8080:8080"

  frontend:
    image: "sept/frontend"
    build:
      context: "../FrontEnd/appointment-service"
    container_name: "frontend"
    ports:
      - "80:80"
    depends_on:
      - backend

```

An EC2 instance was created on Amazon AWS with ports 80 and 443 for web opened, and set up with git, docker and docker compose over ssh.

Instance summary for i-02eaca756c564ea6f

Updated less than a minute ago

Refresh

Connect

Actions

<div>Instance ID</div> <div>i-02eaca756c564ea6f</div>	<div>Public IPv4 address</div> <div>3.85.120.170 open address</div>	<div>Private IPv4 addresses</div> <div>172.31.24.67</div>
<div>Instance state</div> <div>Running</div>	<div>Public IPv4 DNS</div> <div>ec2-3-85-120-170.compute-1.amazonaws.com open address</div>	<div>Private IPv4 DNS</div> <div>ip-172-31-24-67.ec2.internal</div>
<div>Instance type</div> <div>t2.micro</div>	<div>Elastic IP addresses</div> <div>-</div>	<div>VPC ID</div> <div>vpc-4b7bbb36</div>
<div>IAM Role</div> <div>-</div>	<div>Subnet ID</div> <div>subnet-2dcf8860</div>	

✖

AWS Compute Optimizer

This user is not authorized to call AWS Compute Optimizer.

Retry

✕

Details

Security

Networking

Storage

Monitoring

Tags

▼ Instance details

Platform

Amazon Linux (Inferred)

Platform details

Linux/UNIX

Launch time

Sat Oct 17 2020 18:23:15 GMT+1100 (Australian Eastern Daylight Time) (2 minutes)

AMI ID

ami-0947d2ba12ee1ff75

AMI name

amzn2-ami-hvm-2.0.20200917.0-x86_64-gp2

AMI location

amazon/amzn2-ami-hvm-2.0.20200917.0-x86_64-gp2

Monitoring

disabled

Termination protection

Disabled

Lifecycle

normal

The repository was cloned and the docker images deployed with the docker-compose script, resulting in a running production deployment of both frontend and backend on AWS.

Starting backend ... done

Starting frontend ... done

Attaching to backend, frontend

backend

backend

backend

backend

backend

backend

backend

backend

2020-10-17 07:26:22.417 INFO 1 --- [main] t.a.AppointmentServiceBackendApplication : Starting AppointmentServiceBackendApplication

v0.0.1-SNAPSHOT on 1dbcd17c7ad2 with PID 1 (/app/app.jar started by root in /app)

2020-10-17 07:26:22.421 INFO 1 --- [main] t.a.AppointmentServiceBackendApplication : No active profile set, falling back to default

t profiles: default

2020-10-17 07:26:25.428 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in

DEFERRED mode.

2020-10-17 07:26:25.722 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 2

61ms. Found 4 JPA repository interfaces.

2020-10-17 07:26:26.980 INFO 1 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'org.springframework.security.access.exp

ression.method.DefaultMethodSecurityExpressionHandler@117e949d' of type [org.springframework.security.access.expression.method.DefaultMethodSecurityExpressi

onHandler] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)

2020-10-17 07:26:26.996 INFO 1 --- [main] trationDelegatesBeanPostProcessorChecker : Bean 'methodSecurityMetadataSource' of type [

org.springframework.security.access.method.DelegatingMethodSecurityMetadataSource] is not eligible for getting processed by all BeanPostProcessors (for exam

ple: not eligible for auto-proxying)

2020-10-17 07:26:28.015 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)

2020-10-17 07:26:28.063 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]

2020-10-17 07:26:28.064 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.3

7]

2020-10-17 07:26:28.279 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationCo

ntext

2020-10-17 07:26:28.286 INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization co

mpleted in 5726 ms

2020-10-17 07:26:28.455 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...

2020-10-17 07:26:29.284 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

2020-10-17 07:26:29.305 INFO 1 --- [main] o.s.b.a.h2.H2ConsoleAutoConfiguration : H2 console available at '/h2-console'. Databa

se available at 'jdbc:h2:file:~/test'

2020-10-17 07:26:30.395 WARN 1 --- [main] JpaBaseConfiguration\$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default

. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning

2020-10-17 07:26:30.824 INFO 1 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTask

Executor'

2020-10-17 07:26:31.353 INFO 1 --- [task-1] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [na

me: default]

2020-10-17 07:26:33.924 INFO 1 --- [task-1] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.4.18.

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