



Spring Cloud goes cloud

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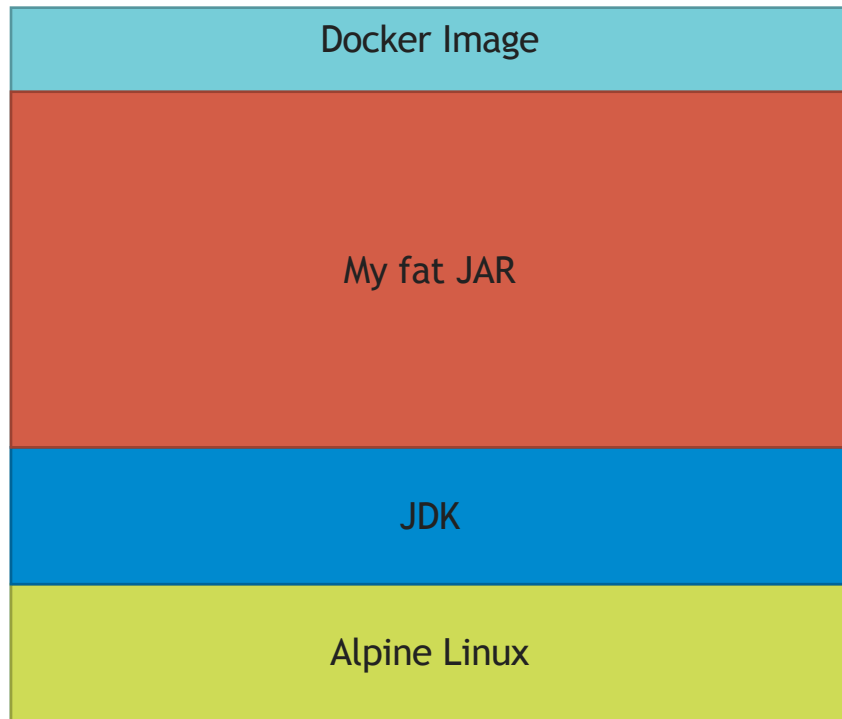
Agenda

- Building Docker images for Spring Boot apps
- Providing app metrics with Spring Boot Actuator
- Running microservices in Docker
- Running microservices in Kubernetes

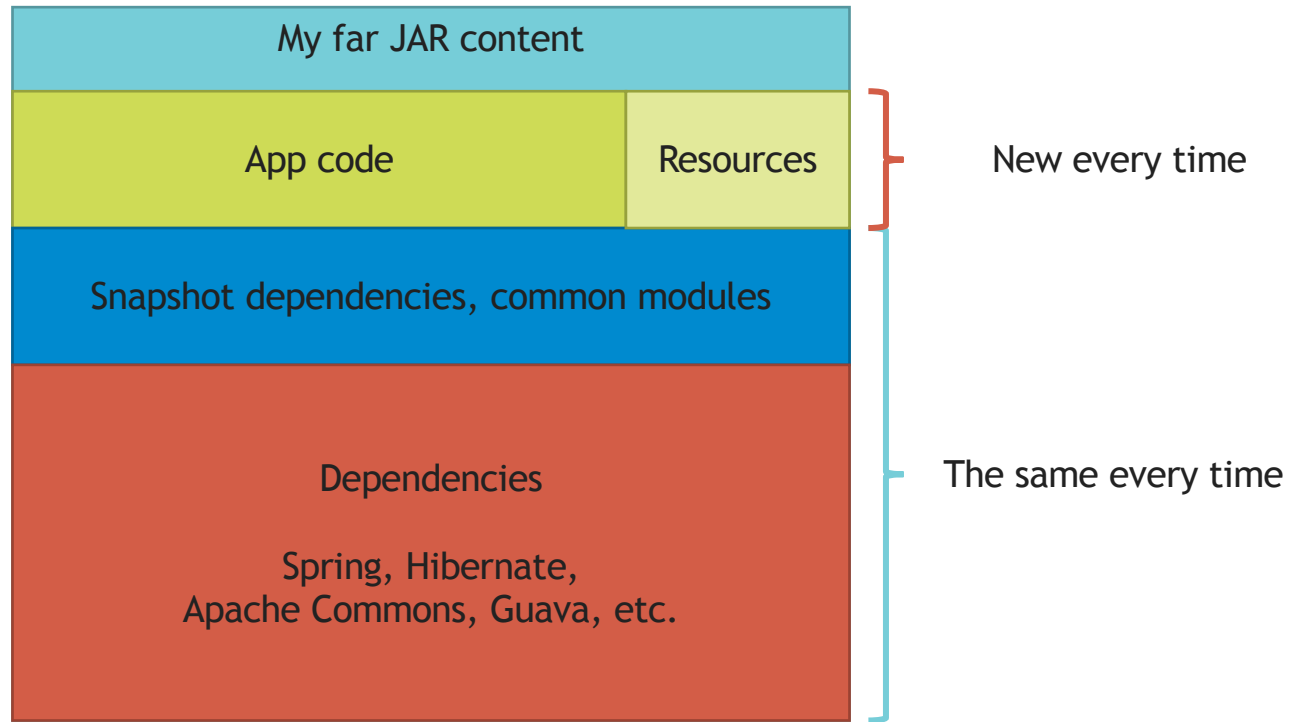


Building Docker images

```
FROM openjdk:8-jdk-alpine
EXPOSE 8080
ARG JAR_FILE=target/my-app.jar
ADD ${JAR_FILE} app.jar
ENTRYPOINT ["java","-jar","/app.jar"]
```

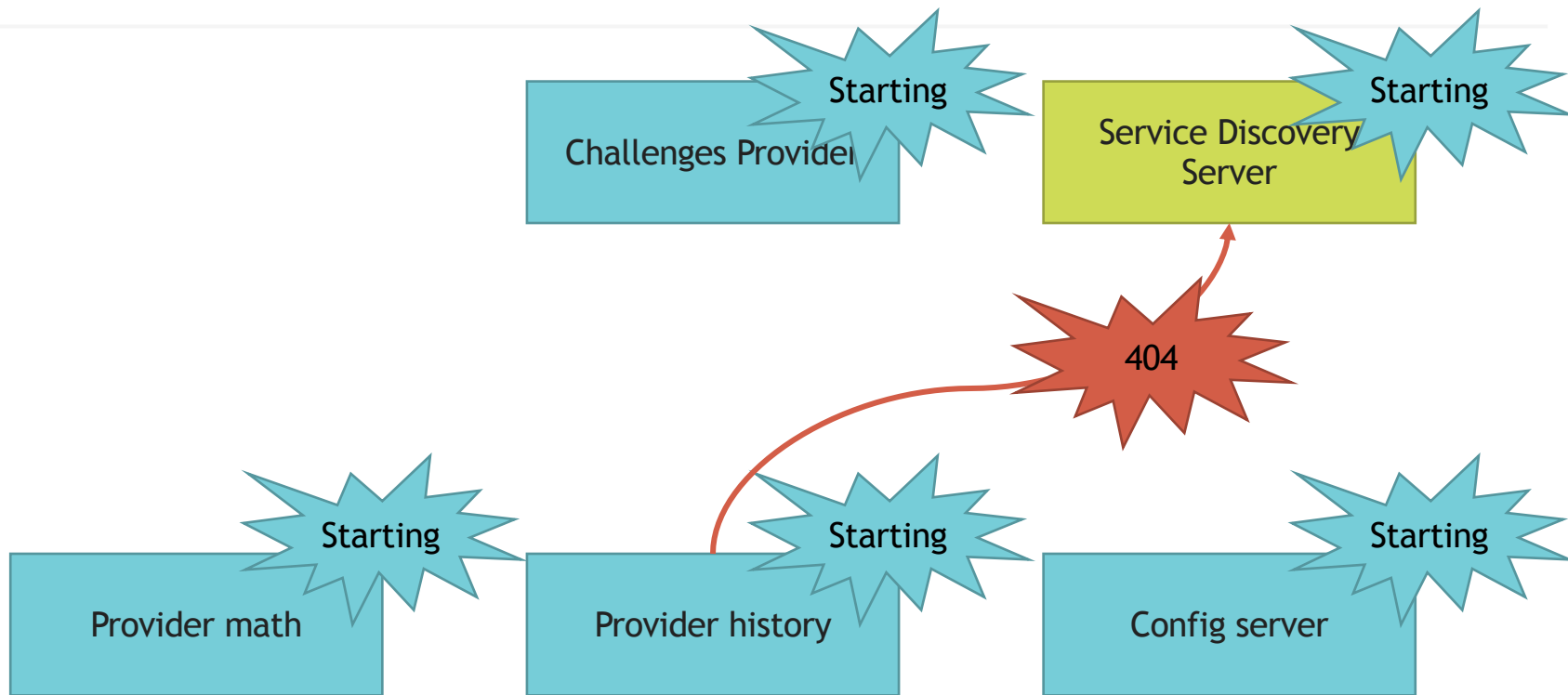


Building Docker images

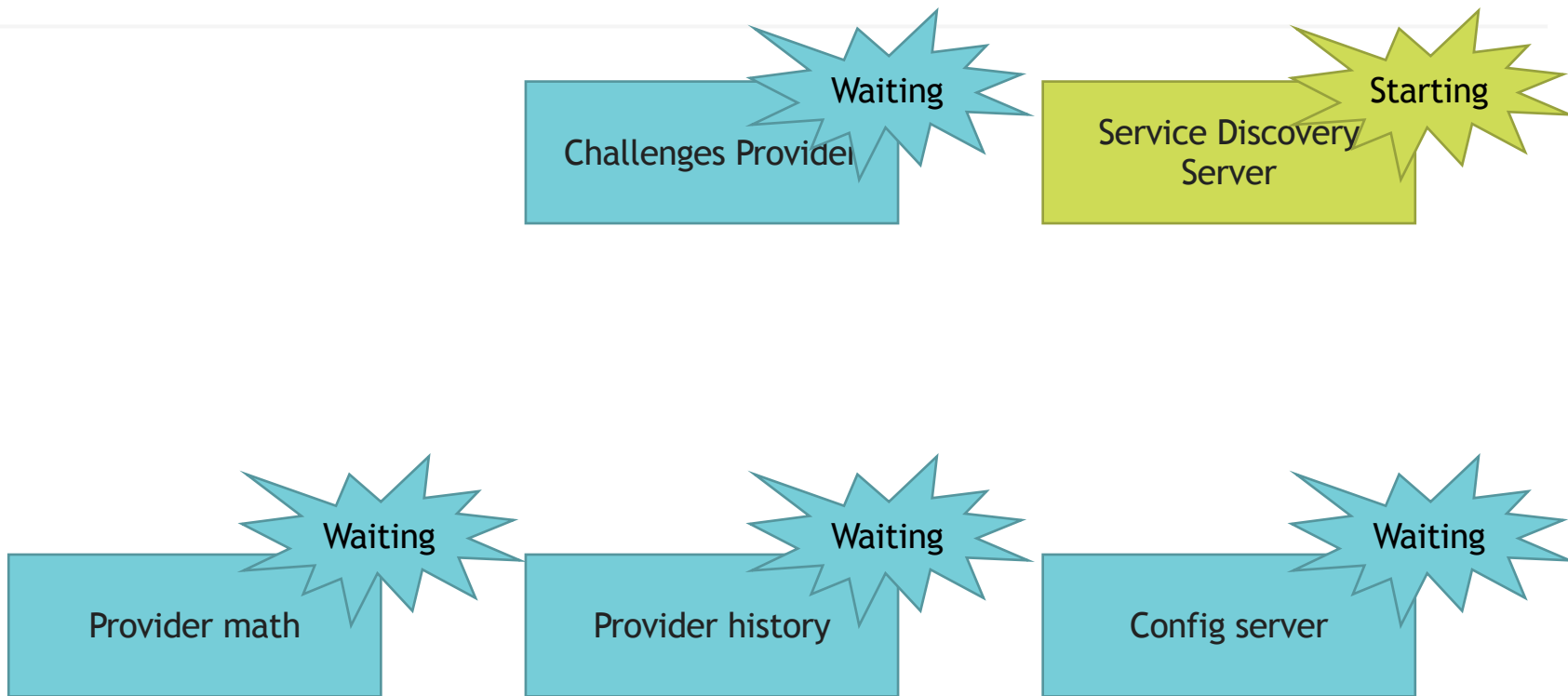


DEMO #1 - BUILDING DOCKER IMAGES

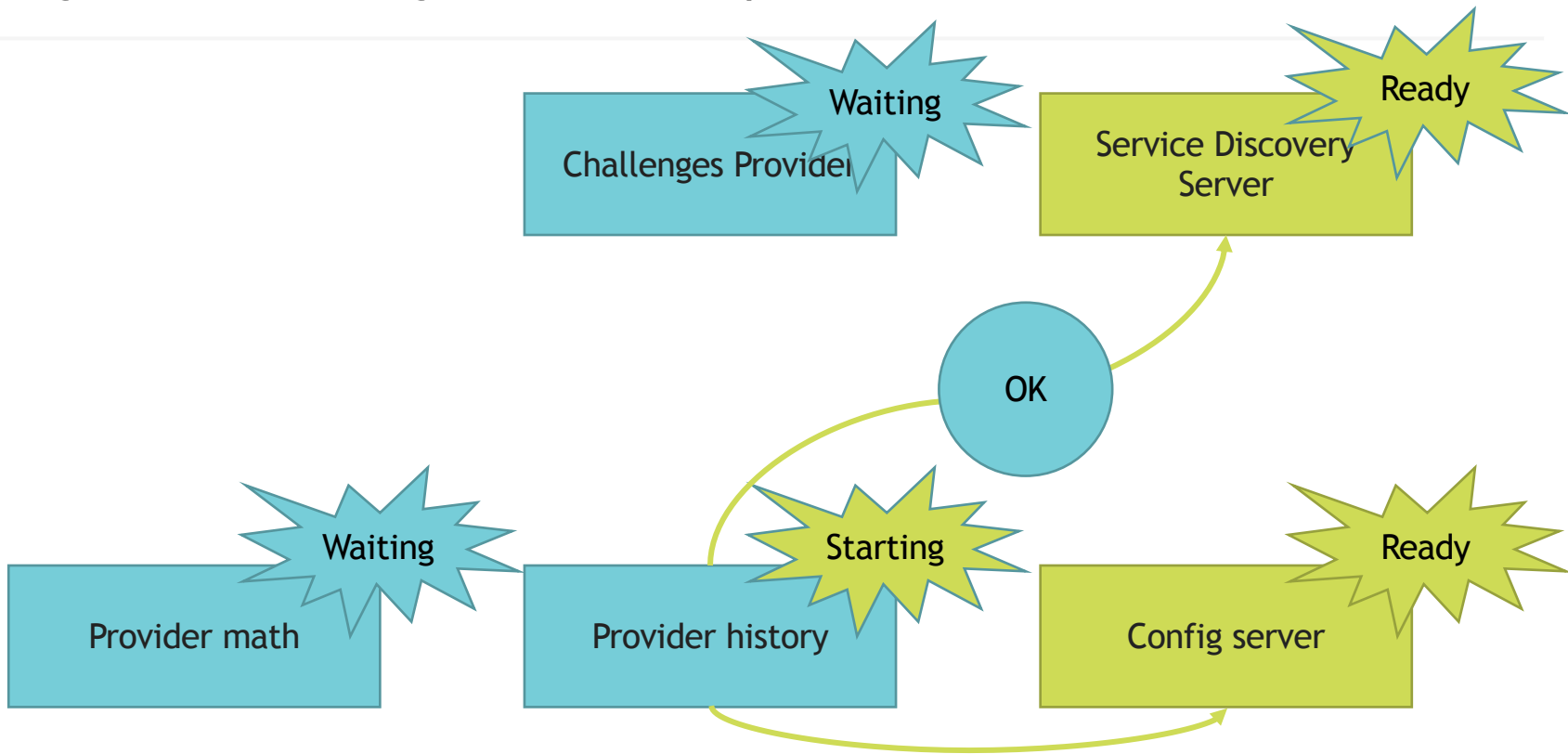
Running services using Docker Compose



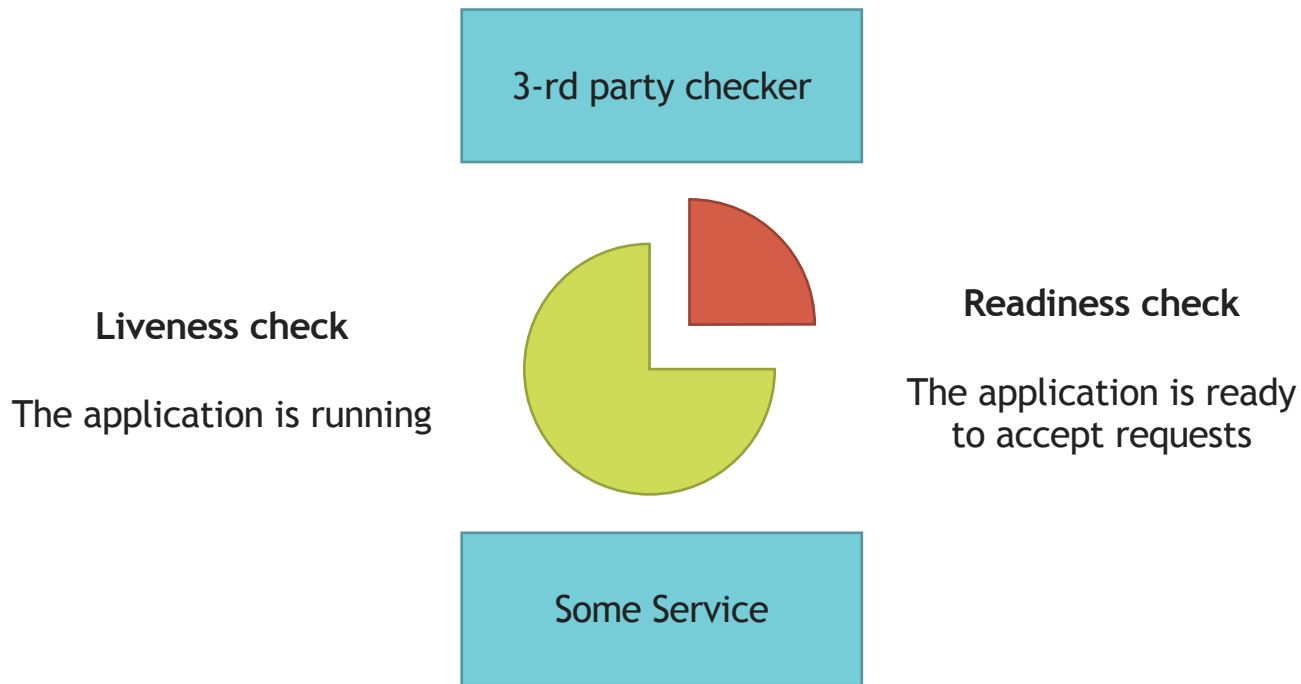
Running services using Docker Compose



Running services using Docker Compose

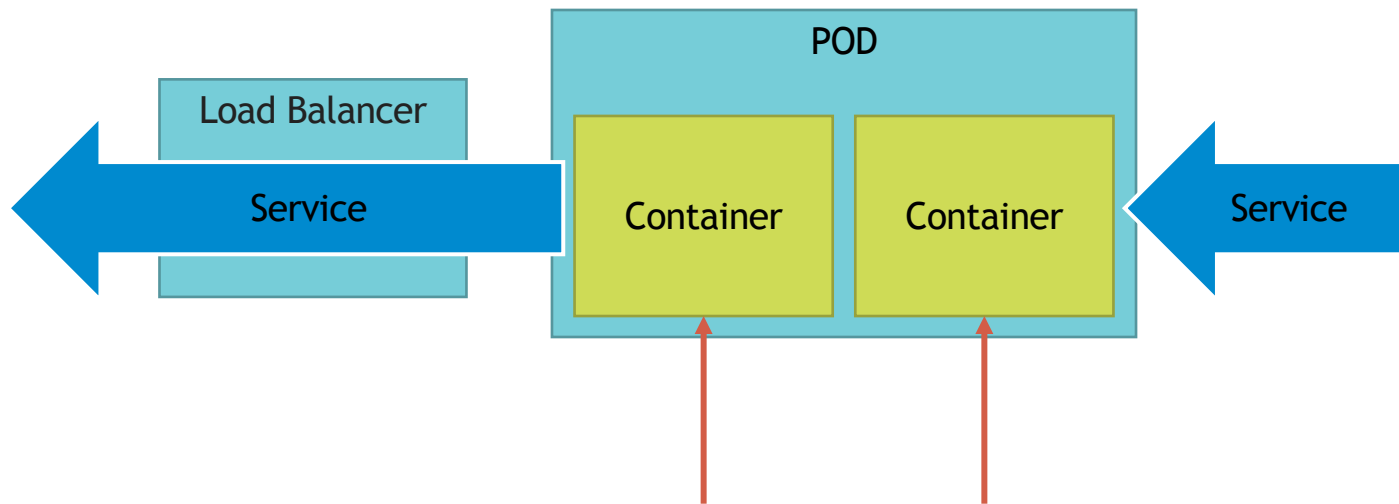


Health check



DEMO #2 - SPRING BOOT ACTUATOR & HEALTH CHECKS

Kubernetes for dummies



Are you ok? Ready?

Summary

- **Observability** is one of the most important -ilities which lets you sleep at night.
- **Spring Cloud** is a great set of projects which simplify building cloud-ready solutions.
- Keep in mind what **platforms** offer - health checks, service discovery, load balancing are provided by majority of platforms.

Code examples:

- <https://github.com/aabarmin/aws-java-example>
- <https://github.com/aabarmin/epam-spring-cloud-kubernetes-2021>

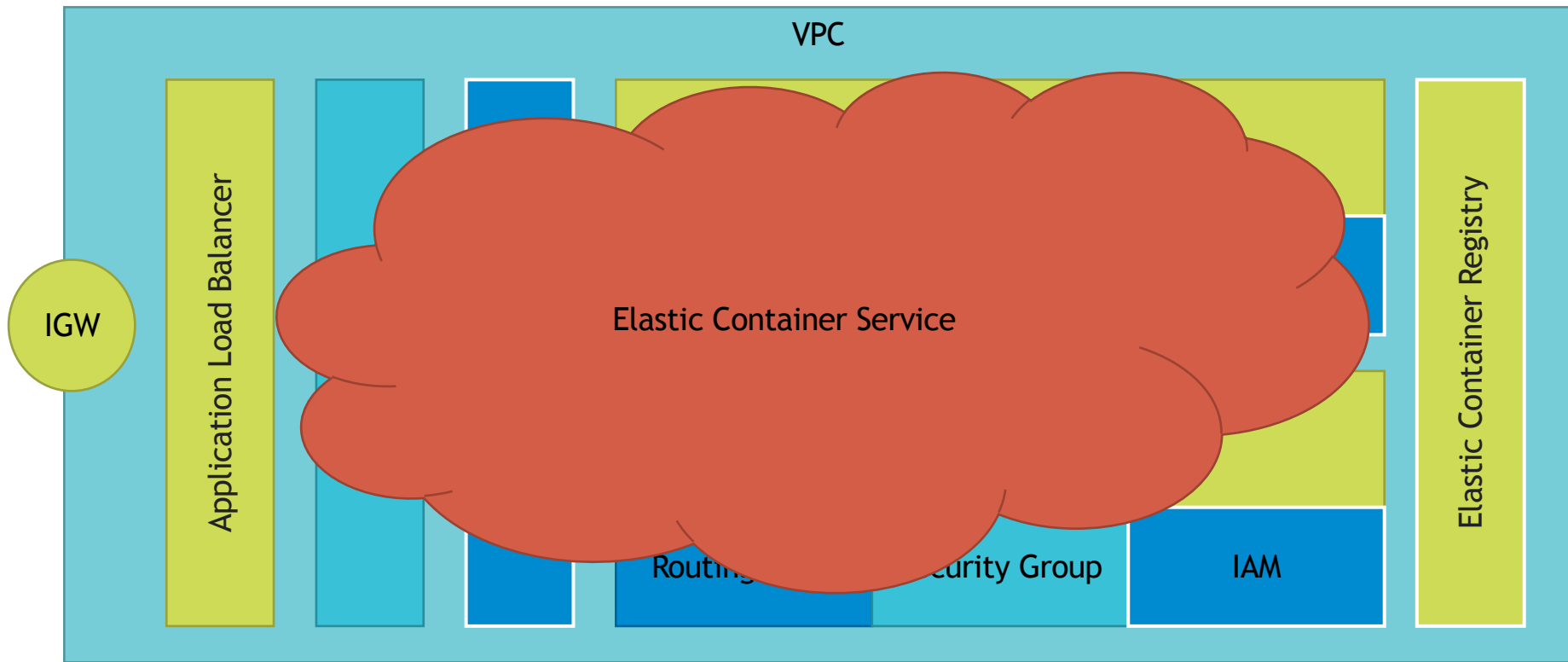
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GOOD LUCK!

DEMO #3 - RUNNING ALL IN KUBERNETES

AWS ECS Bird eye view



DEMO #4 - RUNNING ALL IN AWS ECS