WELCOME BACK
&
THANK YOU

Docker

Bitty Byte

MEET YOUR BITTY BYTE TEAM

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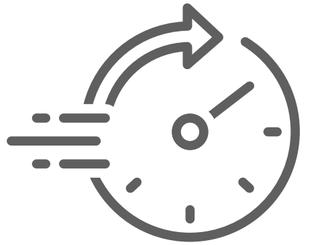
TRAINING DAY 5

TODAY'S AGENDA

1. Rapid Review
2. Docker Volumes +
3. Trivia
4. Hands on Assessment

Scenario Trivia



Scenario

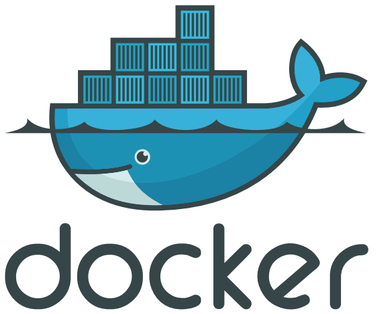
TRIVIA

If you have a couple of containers that upload files and you wouldn't want another containerized application to have access to it. How do you isolate them?

DAY 5

Rapid Review Volumes

DOCKER VOLUMES +



Docker Volumes...again

- **Log Application Activiy:** Tail an activity.log file that will be bound to a volume.

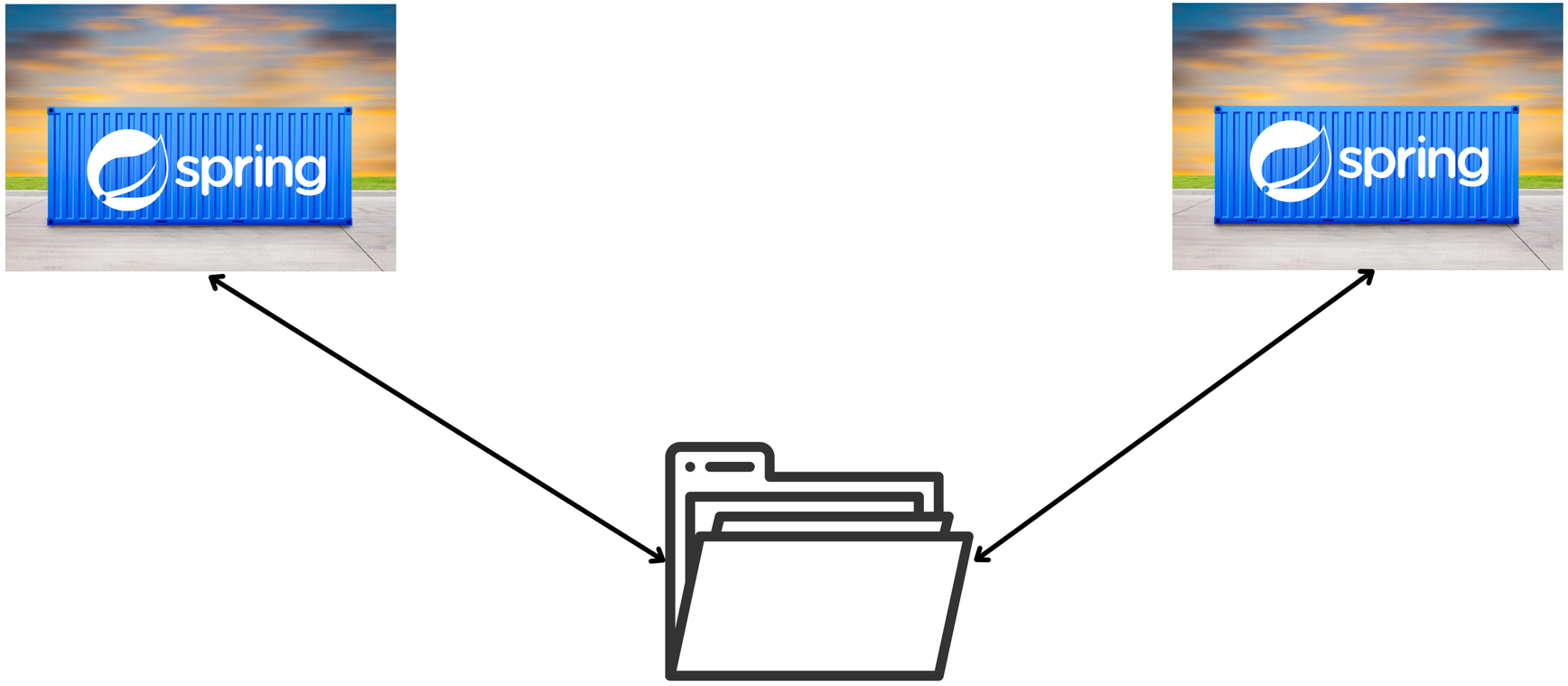
- **Create a POSTGRES DB:** Create a database image that will be bound to a volume.

DOCKER VOLUMES +

Docker Volumes

container-1

container-2



Docker Volumes...again

Log Application Activiy:

Create a '**logback-spring.xml'** in the **src/main/resources**

Use the following code:

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <appender name="file" class="ch.qos.logback.core.FileAppender">
    <file>/var/log/myapp.log</file>
    <encoder>
      <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>
    </encoder>
  </appender>

  <root level="INFO">
    <appender-ref ref="file"/>
  </root>
</configuration>
```

DOCKER VOLUMES +

Docker Volumes

container-1

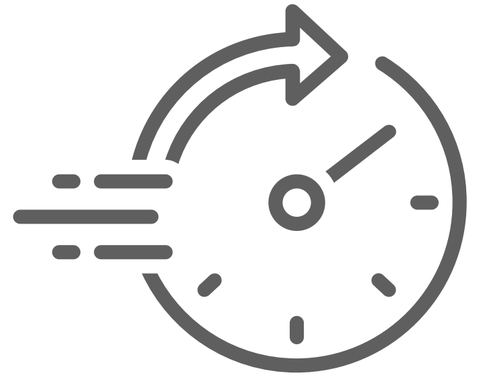
container-2

PostgreSQL

Scenario

TRIVIA

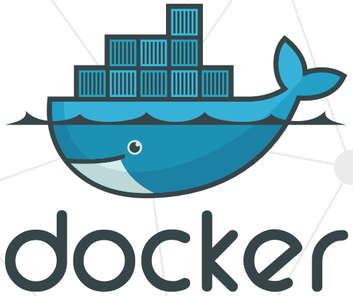
Scenario Trivia



Check Container Logs
Resource Profiling
Analyze Docker Stats
Resource Limits
Inspect Docker Configuration
Application Profiling
Optimization and Scaling
Monitoring and Alerting

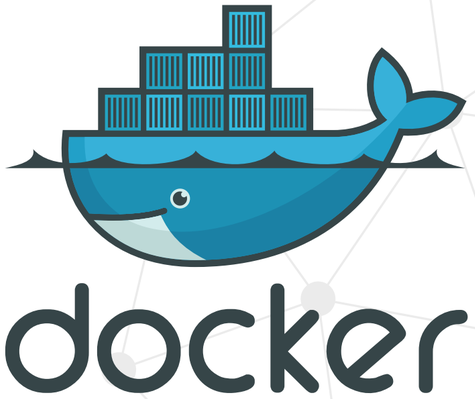
CODING EXERCISE

Create the Hello World in Spring Boot application and add it to Docker



CODING EXERCISE

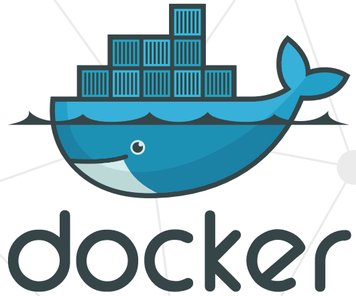
Build Your Own Isolation Network



CODING EXERCISE

Create a second Spring Boot project and build both projects from one docker-compose.yml

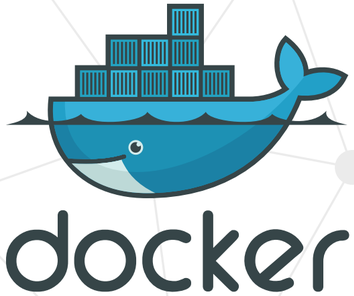
Hint: Both sprint boot projects should be in the same directory as the docker-compose.yml



CODING EXERCISE

Create a volume within the docker-compose.yml along with your containers.

Hint: You create volumes in docker-compose.yml the same way you create networks(driver NOT needed ofcourse!)

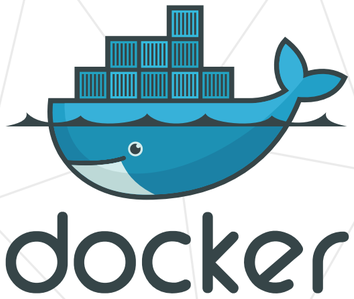


HANDS ON ASSESSMENT

Add an application to Docker

Build Your Own Isolation Network

Isolate the new one from the 2 that you built previously.



HANDS ON ASSESSMENT

Go into the container and ping the other container. Then take a screenshot

Make a copy of the Dockerfile and Docker-compose.yml

And submit it

docker

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Cre8tive Devs.
Creative Software

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OF
COMPLETION