

Continuous Monitoring on Docker with ELK Stack

SOURCE CODE:

```
package com.example.demo;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@SpringBootApplication
@RestController
public class DemoApplication {

    private static final Logger logger =
        LoggerFactory.getLogger(DemoApplication.class);

    public static void main(String[] args) {
        SpringApplication.run(DemoApplication.class, args);
    }

    @GetMapping("/")
    public String hello() {
        logger.info("Hello World");
        logger.error("Ooops, there was an error", new RuntimeException("I am a
runtime exception"));
        return "Hello World";
    }
}
```

FROM openjdk:8-jdk-alpine

VOLUME /tmp

ADD target/demo-0.0.1-SNAPSHOT.jar app.jar

ENTRYPOINT ["java", "-Djava.security.egd=file:/dev/./urandom", "-jar", "/app.jar"]

POM.XML:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">

  <properties>

    <maven.compiler.source>1.8</maven.compiler.source>

    <maven.compiler.target>1.8</maven.compiler.target>

  </properties>

  <modelVersion>4.0.0</modelVersion>

  <groupId>com.example</groupId>

  <artifactId>demo</artifactId>

  <version>0.0.1-SNAPSHOT</version>

  <packaging>jar</packaging>

  <name>demo</name>

  <description>Demo project for Spring Boot</description>

  <parent>

    <groupId>org.springframework.boot</groupId>

    <artifactId>spring-boot-starter-parent</artifactId>

    <version>1.5.9.RELEASE</version>

    <relativePath/>

    <!-- lookup parent from repository -->

  </parent>

  <properties>

    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

    <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>

  </properties>

</project>
```

```
<java.version>1.8</java.version>

</properties>

<dependencies>

  <dependency>

    <groupId>org.springframework.boot</groupId>

    <artifactId>spring-boot-starter-web</artifactId>

  </dependency>

  <dependency>

    <groupId>net.logstash.logback</groupId>

    <artifactId>logstash-logback-encoder</artifactId>

    <version>4.11</version>

  </dependency>

  <dependency>

    <groupId>org.springframework.cloud</groupId>

    <artifactId>spring-cloud-starter-sleuth</artifactId>

    <version>1.3.0.RELEASE</version>

  </dependency>

  <dependency>

    <groupId>org.springframework.boot</groupId>

    <artifactId>spring-boot-starter-test</artifactId>

    <scope>test</scope>

  </dependency>

</dependencies>

<build>

  <plugins>

    <plugin>

      <groupId>org.springframework.boot</groupId>
```

```
    <artifactId>spring-boot-maven-plugin</artifactId>
  </plugin>
  <plugin>
    <groupId>com.spotify</groupId>
    <artifactId>dockerfile-maven-plugin</artifactId>
    <version>1.3.6</version>
    <configuration>
      <repository>${project.artifactId}</repository>
      <buildArgs>
        <JAR_FILE>target/${project.build.finalName}.jar</JAR_FILE>
      </buildArgs>
    </configuration>
  </plugin>
</plugins>
</build>
</project>
```