

Aluno: Fabiano Martins dos Santos

Link do repositório: <https://github.com/fabemiliano/devops-java>

CRUD

Testes

The screenshot shows the Eclipse IDE interface with several open windows:

- Package Explorer**: Shows the project structure with files like Devops3Application.java, Employee.java, EmployeeController.java, EmployeeRepository.java, EmployeeService.java, EmployeeServiceImpl.java, ZipkinConfig.java, and OpenTelemetryConfiguration.java.
- EmployeeControllerTests.java**: The active code editor window contains a JUnit test for the EmployeeController. It uses Mockito annotations (@MockBean, @Autowired) and the ObjectMother class (Employee.builder()) to create employee objects. The test checks if an employee is saved correctly by verifying its properties (firstName, lastName, email) in the response.
- Boot Dashboard**: Shows the status of various services: devops (status: green), devops2 (status: yellow), devops3 (status: green, port: 9000), and spring-boot-jpa (status: red).
- Problems**: A small window showing build errors or warnings.
- Console**: A terminal window displaying the application's log output. The log shows the application starting up, connecting to MySQL, and performing database migrations. It also shows the application listening on port 9001 and starting a Tomcat server on port 9000.

Actuator

```
<java.version>17</java.version>
    <sonar.organization>fabemiliano</sonar.organization>
    <sonar.host.url>https://sonarcloud.io</sonar.host.url>
</properties>
<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-actuator</artifactId>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-data-ignite</artifactId>
    </dependency>

```

- ➔ devops3 git:(main) curl localhost:9001/actuator/health
{"status": "UP"}%
- ➔ devops3 git:(main) □

Esteria no github actions

The screenshot shows the GitHub Actions page for the repository fabemiliano/devops-java. The left sidebar lists 'Actions' under 'Maven Package', 'Management', and 'Caches'. The main area displays 'All workflows' with two workflow runs listed:

- ädicionado config zipkin**: Maven Package #2: Commit 46e03c3 pushed by fabemiliano. Status: main. Run time: 5 minutes ago (39s).
- ädicionado sonar**: Maven Package #1: Commit 646b760 pushed by fabemiliano. Status: main. Run time: 1 hour ago (29s).

At the bottom, there are tabs for log_files.yml, devops.pem, devops3.zip, devops2.zip, devops.zip, and Show All.

Sonar adicionado

```
<name>devops</name>
<description>Demo project for Spring Boot</description>
<properties>
    <java.version>17</java.version>
    <sonar.organization>fabemiliano</sonar.organization>
    <sonar.host.url>https://sonarcloud.io</sonar.host.url>
</properties>
<dependencies>
    <dependency>
```

Screenshot of the SonarCloud interface for the project "devops-java".

Project Overview:

- Status:** Main Branch Status: Quality Gate - Not computed.
- Findings:** 15 Findings (1 Bug, 15 Code Smells, 0 Vulnerabilities, 0 Security Hotspots).
- Last Analysis:** Apr 10, 2023 (276 Lines of Code).

File Explorer: Shows log_files.yml, devops.pem, devops3.zip, devops2.zip, and devops.zip.

Terraform

Screenshot of the Terraform code editor in a dark-themed IDE.

File Structure:

- DEVPSS3
- .gitignore
- .mvn
- src
- main
- java
- resources
- static
- templates
- application.properties
- test
- target
- terraform
- main.tf
- outputs.tf
- variables.tf
- .gitignore
- HELP.md
- logback.xml
- mvnw
- mvnw.cmd
- pom.xml
- README.md
- zipkin.jar

Code Snippets:

```

main.tf
provider "aws" {
  region = var.region
}

resource "aws_instance" "machine_devops"
ami           = var.ami
instance_type = var.instance_type
tags = {
  Name = var.tags.Name
}
variables.tf
variable "region" {
  default = "us-west-2"
}

variable "instance_type" {
  default = "t2.micro"
}

variable "ami" {
  default = "2023.0.20230329.0"
}

variable "tags" {
  default = {
    Name = "machine_devops-instance"
  }
}
outputs.tf
output "public_ip" {
  value = aws_instance.public_ip
}

output "bucket_name" {
  value = aws_s3_bucket.example.bucket
}
  
```

Terminal:

```

$ devops3 git:(main) curl localhost:9001/actuator/health
{"status":"UP"}
$ devops3 git:(main) 
  
```

File Explorer: Shows Java, zsh, and zsh files.

Instancia EC2

The screenshot shows the AWS CloudShell interface. On the left is a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (with sub-options for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), and CloudWatch Metrics. The main area displays an 'Instances (1) Info' table with one row for an instance named 'devops' with ID 'i-09a3e2d8c4cbd802c'. The instance is 'Running' on a 't2.micro' type, with a status check of '2/2 checks passed' and no alarms. It is located in the 'us-east-2c' availability zone. Below the table is a 'Select an instance' dropdown. At the bottom, there's a file browser showing files: 'log_files.yml', 'devops.pem', 'devops3.zip', 'devops2.zip', and 'devops.zip'. The footer includes links for CloudShell, Feedback, Language, Privacy, Terms, and Cookie preferences.

Dependencia do papertrail, micrometer e zipkin

```
59 </dependency>
60<dependency>
61     <groupId>io.micrometer</groupId>
62     <artifactId>micrometer-registry-prometheus</artifactId>
63 </dependency>
64<dependency>
65     <groupId>com.papertrailapp</groupId>
66     <artifactId>logback-syslog4j</artifactId>
67     <version>1.0.3</version>
68 </dependency>
69
70<dependency>
71     <groupId>io.opentelemetry</groupId>
72     <artifactId>opentelemetry-api</artifactId>
73     <version>1.7.0</version>
74 </dependency>
75
76<dependency>
77     <groupId>io.opentelemetry</groupId>
78     <artifactId>opentelemetry-sdk-trace</artifactId>
79     <version>1.7.0</version>
80 </dependency>
81
82<dependency>
83     <groupId>io.opentelemetry</groupId>
84     <artifactId>opentelemetry-exporter-zipkin</artifactId>
85     <version>1.7.0</version>
86 </dependency>
87
88
```

Zipkin na oporta 9411

