

Relatório de Deploy em Homologação - CalculatorPlus

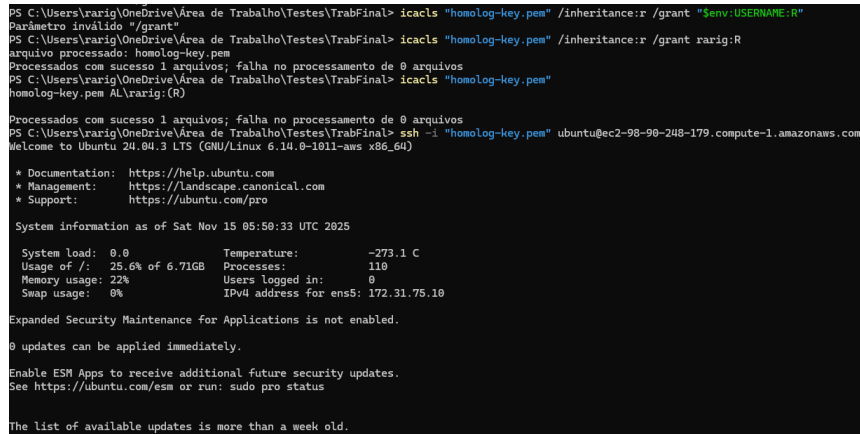
Este documento descreve o processo de deploy manual da aplicação CalculatorPlus em um ambiente de homologação na AWS. Este processo se baseia na instalação manual das dependências, build do projeto com Maven e execução direta da aplicação Java no servidor.

Passo 1: Acesso ao Servidor de Homologação

O processo inicia com o acesso seguro ao servidor de homologação (uma instância EC2 da AWS) via SSH, utilizando uma chave privada específica para este ambiente.

Comandos:

```
# Ajuste de permissão da chave
icacls "homolog-key.pem" /inheritance:r /grant:r ALMEIDG:R
# Acesso SSH
ssh -i "homolog-key.pem" ubuntu@ec2-99-99-248-179.compute-1.amazonaws.com
```

A terminal window showing the execution of the 'icacls' command to set permissions on 'homolog-key.pem' and then the 'ssh' command to connect to an Ubuntu server. The terminal output shows the command execution, the connection to the server, and the Ubuntu login banner. The banner includes system information such as the date and time, system load, memory usage, and a list of available updates.

```
PS C:\Users\varig\OneDrive\Área de Trabalho\Testes\TrabFinal> icacls "homolog-key.pem" /inheritance:r /grant "$env:USERNAME:R"
Parâmetro inválido "/grant"
PS C:\Users\varig\OneDrive\Área de Trabalho\Testes\TrabFinal> icacls "homolog-key.pem" /inheritance:r /grant rarig:R
arquivo processado: homolog-key.pem
Processados com sucesso 1 arquivos; falha no processamento de 0 arquivos
PS C:\Users\varig\OneDrive\Área de Trabalho\Testes\TrabFinal> icacls "homolog-key.pem"
homolog-key.pem AL\rarig:(R)
Processados com sucesso 1 arquivos; falha no processamento de 0 arquivos
PS C:\Users\varig\OneDrive\Área de Trabalho\Testes\TrabFinal> ssh -i "homolog-key.pem" ubuntu@ec2-99-99-248-179.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1011-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Sat Nov 15 05:50:33 UTC 2025

System load:  0.0          Temperature:   -273.1 C
Usage of /:   25.6% of 6.71GB    Processes:    110
Memory usage: 22%           Users logged in: 0
Swap usage:   0%              IPv4 address for ens5: 172.31.75.10

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
```


Figura 1: Acesso SSH ao Servidor

Passo 2: Atualização do Sistema Operacional

Após a conexão, os pacotes do sistema operacional Ubuntu são atualizados para garantir que o ambiente esteja com as últimas versões e correções de segurança.

Comando:

```
sudo apt update && sudo apt upgrade -y
```

A terminal window showing the execution of 'sudo apt update' and 'sudo apt upgrade -y'. The output shows the list of available updates, including the InRelease files for noble, noble-updates, noble-backports, and noble-security, and the list of packages to be upgraded.

```
ubuntu@ip-172-31-75-10:~$ sudo apt update && sudo apt upgrade -y
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 Packages [15.0 MB]
```

Figura 2: Atualização de Pacotes do Sistema

Passo 3: Instalação de Dependências (Git e Maven)

As ferramentas essenciais para o build e deploy são instaladas: o `git` para controle de versão e o `maven` para gerenciamento e build do projeto Java.

Comando:

```
sudo apt install git maven -y
```

```
Last login: Sat Nov 15 05:58:03 2025 from 187.16.187.165
ubuntu@ip-172-31-75-10:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-75-10:~$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-75-10:~$ sudo apt install git maven -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.3).
git set to manually installed.
The following additional packages will be installed:
  libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java
  libcommons-io-java libcommons-lang3-java libcommons-parent-java liberror-prone-java
  libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libguice-java libjansi-java
  libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java
  libplexus-cipher-java libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java
  libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java
  libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java
Suggested packages:
  libatinject-javax-api-java-doc libel-api-java libcommons-io-java-doc libasm-java libcglib-java libjsr305-java-doc
  libmaven-shared-utils-java-doc liblogback-java libplexus-utils2-java-doc junit4 testing libcommons-logging-java
  liblog4j2-java
The following NEW packages will be installed:
```

Figura 3: Instalação de Git e Maven

Passo 4: Instalação do Java

O ambiente de execução Java (JDK 11) é instalado, um pré-requisito para compilar e rodar a aplicação.

Comando:

```
sudo apt install openjdk-11-jdk -y
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-75-10:~$ java -version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-17-jre-headless # version 17.0.16+9-us1-0ubuntu1-24.04.1, or
sudo apt install openjdk-21-jre-headless # version 21.0.8+9-us1-0ubuntu1-24.04.1
sudo apt install default-jre # version 2:1.17-75
sudo apt install openjdk-11-jre-headless # version 11.0.28+6-1ubuntu1-24.04.1
sudo apt install openjdk-25-jre-headless # version 25+36-1-24.04.2
sudo apt install openjdk-8-jre-headless # version 8u462-ga-us1-0ubuntu2-24.04.2
sudo apt install openjdk-19-jre-headless # version 19.0.2+7-0
sudo apt install openjdk-20-jre-headless # version 20.0.2+9-1
sudo apt install openjdk-22-jre-headless # version 22-22ea-1
ubuntu@ip-172-31-75-10:~$ sudo apt install openjdk-11-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf at-spi2-common at-spi2-core ca-certificates-java dconf-gsettings-backend
  dconf-service fontconfig-config fonts-dejavu-core fonts-dejavu-extra fonts-dejavu-mono gsettings-desktop-schemas
  java-common libasound2-data libasound2t64 libatk-bridge2.0-0t64 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0t64 libatspi2.0-0t64 libavahi-client3 libavahi-common-data libavahi-common3 lib cups2t64 libdconf1
  libdrm-amdgpu libdrm-intel1 libfontconfig1 libgb1 libgl1 libgl1-mesa-dri libglvnd0 libglx-mesa0 libglx0
  libgraphite2-3 libharfbuzz0b libice-dev libice6 libjpeg-turbo8 libjpeg8 liblcms2-2 liblvm20 libpciaccess0
  libpcscite1 libpthread-stubs0-dev libsm-dev libsm6 libvulkan1 libwayland-client0 libwayland-server0 libx11-dev
  libx11-xcb1 libxau-dev libxaw7 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-shape0 libxcb-shm0
  libxcb-sync1 libxcb-xfixes0 libxcbl-dev libxcomposite1 libxdmcp-dev libxft2 libx6 libxinerama1 libxkbfile1 libxmu6
  libxpm1 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6t64 libxtst6 libxv libxvfbv0 libxxf86vm1
  mesa-libgallium mesa-vulkan-drivers openjdk-11-jdk-headless openjdk-11-jre openjdk-11-jre-headless session-migration
  x11-common x11-utils x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre alsa-utils libasound2-plugins cups-common libice-doc liblcms2-utils pcsd libsm-doc libx11-doc
  libxcb-doc libxt-dev openjdk-11-demo openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic
  fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic mesa-utils
Recommended packages:
  luit
The following NEW packages will be installed:
```

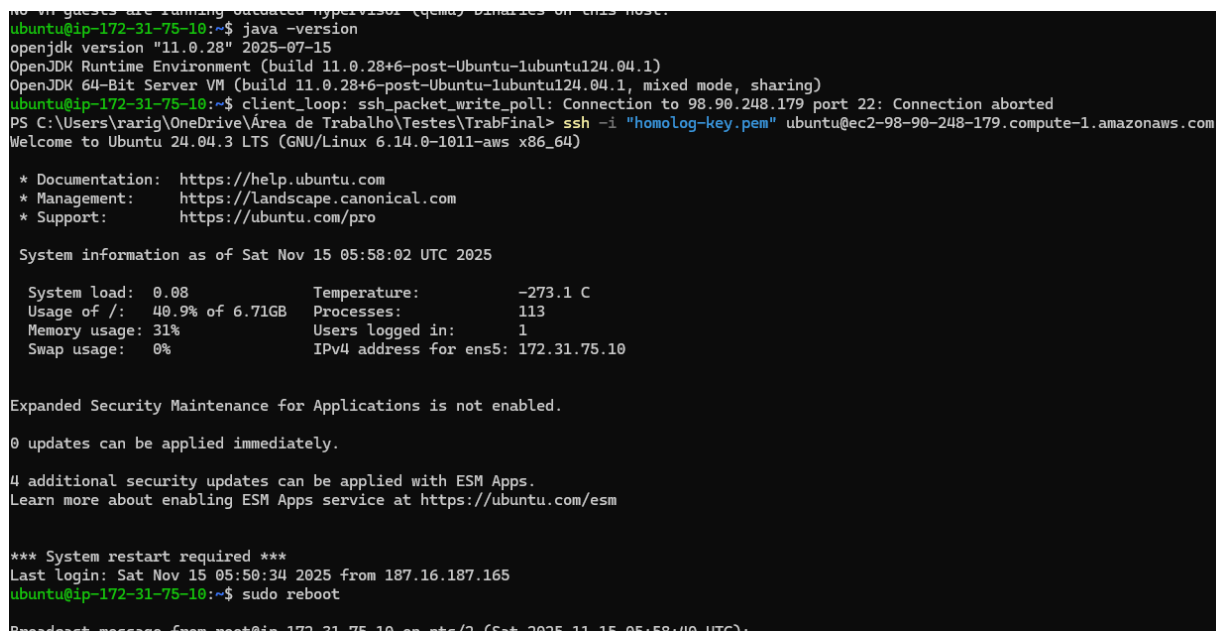
Figura 4: Instalação do Java Development Kit

Passo 5: Reinicialização do Servidor

Para garantir que todas as instalações e atualizações sejam corretamente aplicadas, o servidor é reiniciado. Uma nova conexão SSH é estabelecida após o reinício.

Comando:

```
sudo reboot
```



```
no VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-75-10:~$ java -version
openjdk version "11.0.28" 2025-07-15
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-lubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-lubuntu124.04.1, mixed mode, sharing)
ubuntu@ip-172-31-75-10:~$ client_loop: ssh_packet_write_poll: Connection to 98.90.248.179 port 22: Connection aborted
PS C:\Users\rarig\OneDrive\Área de Trabalho\Testes\TrabFinal> ssh -i "homolog-key.pem" ubuntu@ec2-98-90-248-179.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1011-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Sat Nov 15 05:58:02 UTC 2025

System load:  0.08          Temperature:   -273.1 C
Usage of /:   40.9% of 6.71GB Processes:    113
Memory usage: 31%          Users logged in: 1
Swap usage:   0%           IPv4 address for ens5: 172.31.75.10

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

4 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

*** System restart required ***
Last login: Sat Nov 15 05:50:34 2025 from 187.16.187.165
ubuntu@ip-172-31-75-10:~$ sudo reboot
```

Figura 5: Reinicialização do Servidor

Passo 6: Verificação do Histórico de Commits

Antes de clonar, o histórico de commits no GitHub é verificado. Este passo serve como um ponto de controle para garantir que a versão correta do código, com as últimas alterações, será implantada.

Passo 7: Clone e Build do Projeto

O código-fonte é clonado do repositório. Uma primeira tentativa de build falha por ser executada no diretório raiz. O problema é corrigido entrando no diretório do projeto (CalculatorPlusProject) e executando o build novamente.

Comandos:

```
git clone https://github.com/def-ale/CalculatorPlus.git
cd CalculatorPlusProject/
mvn clean package
```

Passo 8: Sucesso do Build

O Maven baixa todas as dependências necessárias e compila o projeto. O processo termina com a mensagem “BUILD SUCCESS”.

Commits		
main	All users	All time
Commits on Nov 15, 2025		
teste deploy 3	def-ale committed 22 minutes ago	e79d24c
tratando circularidade	def-ale committed 25 minutes ago	e328fd8
teste deploy 2	def-ale committed 28 minutes ago	6c0b37f
teste de deploy	def-ale committed 41 minutes ago	99df7ef
Adicionando Mock no userdetails	def-ale committed 45 minutes ago	00dfc96
Adicionando Mock no passwordEncoder para os testes	def-ale committed 48 minutes ago	ba3f3096
fix de erro no application	def-ale committed 1 hour ago	87060ef
testando deploy	def-ale committed 1 hour ago	8b4acd9
adicionando tag lazy	def-ale committed 1 hour ago	6603f9a
Adiciona PasswordConfig para corrigir circular dependency do PasswordEncoder	def-ale committed 1 hour ago	a498146
Projeto CalculatorPlus	def-ale committed 1 hour ago	6de5b6b

Figura 6: Histórico de Commits no GitHub

```

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-75-10:~$ cd -
ubuntu@ip-172-31-75-10:~$ git clone https://github.com/def-ale/CalculatorPlus.git
Cloning into 'CalculatorPlus'...
remote: Enumerating objects: 192, done.
remote: Counting objects: 100% (192/192), done.
remote: Compressing objects: 100% (170/170), done.
remote: Total 192 (delta 6), reused 192 (delta 6), pack-reused 0 (from 0)
Receiving objects: 100% (192/192), 5.60 MiB | 39.00 MiB/s, done.
Resolving deltas: 100% (6/6), done.
ubuntu@ip-172-31-75-10:~$ cd CalculatorPlus
ubuntu@ip-172-31-75-10:~/CalculatorPlus$ mvn clean package
[INFO] Scanning for projects...
[INFO] BUILD FAILURE
[INFO] Total time: 0.133 s
[INFO] Finished at: 2025-11-15T06:01:00Z
[ERROR] The goal you specified requires a project to execute but there is no POM in this directory (/home/ubuntu/CalculatorPlus). Please verify you invoked Maven from the correct directory. -> [Help 1]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MissingProjectException
ubuntu@ip-172-31-75-10:~/CalculatorPlus$ ls
CalculatorPlusProject
ubuntu@ip-172-31-75-10:~/CalculatorPlus$ cd CalculatorPlusProject/
ubuntu@ip-172-31-75-10:~/CalculatorPlus/CalculatorPlusProject$ ls
pom.xml src
ubuntu@ip-172-31-75-10:~/CalculatorPlus/CalculatorPlusProject$ mvn clean package
[INFO] Scanning for projects...
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/2.5.4/spring-boot-starter-parent-2.5.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/2.5.4/spring-boot-starter-parent-2.5.4.pom (8.6 kB at 21 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-dependencies/2.5.4/spring-boot-dependencies-2.5.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-dependencies/2.5.4/spring-boot-dependencies-2.5.4.pom (109 kB at 1.6 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/datastax/oss/java-driver-bom/4.11.3/java-driver-bom-4.11.3.pom
Downloaded from central: https://repo.maven.apache.org/maven2/com/datastax/oss/java-driver-bom/4.11.3/java-driver-bom-4.11.3.pom (4.1 kB at 81 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/io/dropwizard/metrics/metrics-bom/4.1.25/metrics-bom-4.1.25.pom
Downloaded from central: https://repo.maven.apache.org/maven2/io/dropwizard/metrics/metrics-bom/4.1.25/metrics-bom-4.1.25.pom (5.3 kB at 113 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/io/dropwizard/metrics/metrics-parent/4.1.25/metrics-parent-4.1.25.pom
Downloaded from central: https://repo.maven.apache.org/maven2/io/dropwizard/metrics/metrics-parent/4.1.25/metrics-parent-4.1.25.pom (17 kB at 160 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy-bom/3.0.8/groovy-bom-3.0.8.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy-bom/3.0.8/groovy-bom-3.0.8.pom (26 kB at 394 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/infinispan/infinispan-bom/12.1.7.Final/infinispan-bom-12.1.7.Final.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/infinispan/infinispan-bom/12.1.7.Final/infinispan-bom-12.1.7.Final.pom (18 kB at 370 kB/s)

```

Figura 7: Clonando o repositório e iniciando o build

```

Downloaded from central: https://repo.maven.apache.org/maven2/com/google/j2objc/j2objc-annotations/1.3/j2objc-annotations-1.3.jar (6.0 kB at 10 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/guava/28.2-android/guava-28.2-android.jar (2.6 MB at 4.5 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar (590 kB at 841 kB/s)
[INFO] Replacing main artifact with repackaged archive
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 59.817 s
[INFO] Finished at: 2025-11-15T06:02:27Z
[INFO] -----
ubuntu@ip-172-31-75-10:~/CalculatorPlus/CalculatorPlusProject$

```

Figura 8: Build concluído com sucesso

Passo 9: Análise dos Logs de Teste

Durante o processo de build, o Maven executa a suíte de testes automatizados. Os logs detalhados mostram o progresso e os resultados de cada teste.

```

Assertiva: ArithmeticException foi lançada conforme esperado para divisao por zero.
--- Teste 'divisaoPorZeroLancaException' finalizado com sucesso. ---
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.066 s - in br.edu.calc.plus.CalculatorPlus.jogoTest.JogoTest
[INFO] Results:
[INFO] Tests run: 19, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ CalculatorPlus ---
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/file-management/3.0.0/file-management-3.0.0.pom

```

Figura 9: Log detalhado da execução dos testes

Passo 10: Confirmação dos Testes

Ao final da fase de teste, um resumo confirma que todos os 19 testes foram executados com sucesso, sem falhas ou erros, garantindo a qualidade e a integridade do código.

Passo 11: Execução da Aplicação

Com o arquivo `.jar` gerado pelo build, a aplicação é iniciada. O comando `java -jar` é executado de dentro do diretório `target`, onde o artefato foi criado. O logo do Spring Boot confirma o início da aplicação.

Comando:

```

cd target/
java -jar CalculatorPlus-1.0.0.jar

```

Passo 12: Confirmação Final do Deploy

O deploy é confirmado como um sucesso. Os logs do servidor mostram as queries do Hibernate sendo executadas, e a tela de login da aplicação é acessível no navegador, indicando que a aplicação está totalmente funcional no ambiente de homologação.

```

Downloaded from central: https://repo.maven.apache.org/maven2/org/junit/platform/junit-platform-launcher/1.10.1/junit-platform-launcher-1.10.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/junit/platform/junit-platform-launcher/1.10.1/junit-platform-launcher-1.10.1.jar (184 kB at 3.9 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/junit/platform/junit-platform-launcher/1.10.1/junit-platform-launcher-1.10.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/junit/platform/junit-platform-launcher/1.10.1/junit-platform-launcher-1.10.1.pom (3.0 kB at 72 kB/s)
[INFO]
[INFO] T E S T S
[INFO]
[INFO] Running br.edu.calc.plus.CalculatorPlus.partidaTest.PartidaServiceTest
--- Setup inicializado para PartidaServiceTest ---
Mocks inicializados.
Partida padrão criada com 1 acerto e 0 erro.
--- Setup concluído ---

--- Iniciando teste: savePartida_respostaIncorreta_removeMetadeBonus ---
Objetivo: Resposta incorreta deve remover metade do bônus do jogo da partida.
Assertiva: A bonificação da partida deve ser -1 (metade do bônus removido).
--- Teste 'savePartida_respostaIncorreta_removeMetadeBonus' finalizado com sucesso. ---
--- Finalizando PartidaServiceTest ---
Mocks fechados.
--- Finalização concluída ---

--- Setup inicializado para PartidaServiceTest ---
Mocks inicializados.
Partida padrão criada com 1 acerto e 0 erro.
--- Setup concluído ---

--- Iniciando teste: getMeusJogos_deveRetornarCamposCorretos ---
Objetivo: Verificar se getMeusJogos retorna corretamente os campos da DTO.
Assertiva: A lista de DTOs deve ter tamanho 1.
Assertiva: Os campos do DTO devem corresponder à partida padrão (1 acerto, 0 erros).
--- Teste 'getMeusJogos_deveRetornarCamposCorretos' finalizado com sucesso. ---
--- Finalizando PartidaServiceTest ---
Mocks fechados.
--- Finalização concluída ---

--- Setup inicializado para PartidaServiceTest ---
Mocks inicializados.
Partida padrão criada com 1 acerto e 0 erro.
--- Setup concluído ---

--- Iniciando teste: userJaCompetiuHoje_deveRetornarTrueOuFalse ---
Objetivo: Verificar se o método identifica corretamente se o usuário já competiu hoje.
Assertiva: Deve retornar true quando o repositório indica que o usuário já competiu.
Assertiva: Deve retornar false quando o repositório indica que o usuário não competiu.
--- Teste 'userJaCompetiuHoje_deveRetornarTrueOuFalse' finalizado com sucesso. ---
--- Finalizando PartidaServiceTest ---
Mocks fechados.
--- Finalização concluída ---

--- Setup inicializado para PartidaServiceTest ---

```

Figura 10: Resumo da execução dos testes

```

[INFO] Results:
[INFO]
[INFO] Tests run: 19, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ CalculatorPlus ---
[INFO] Building jar: /home/ubuntu/CalculatorPlus/CalculatorPlusProject/target/CalculatorPlus-1.0.0.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ CalculatorPlus ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 23.806 s
[INFO] Finished at: 2025-11-15T06:34:35Z
[INFO]
ubuntu@ip-172-31-75-10:~/CalculatorPlus/CalculatorPlusProject$ java -jar CalculatorPlus-1.0.0.jar
Error: Unable to access jarfile CalculatorPlus-1.0.0.jar
ubuntu@ip-172-31-75-10:~/CalculatorPlus/CalculatorPlusProject$ cd target/
ubuntu@ip-172-31-75-10:~/CalculatorPlus/CalculatorPlusProject/target$ java -jar CalculatorPlus-1.0.0.jar

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  |___|_|_|

:: Spring Boot ::
          (v2.5.4)

2025-11-15 06:35:27.631 INFO 2702 --- [main] b.e.calc.plus.CalculatorPlusApplication : Starting CalculatorPlusApplication v1.0.0 using Java 11.0.28 on ip-172-31-75-10 with PID 2702 (/home/ubuntu/CalculatorPlus/CalculatorPlusProject/target/CalculatorPlus-1.0.0.jar started by ubuntu in /home/ubuntu/CalculatorPlus/CalculatorPlusProject/target)
2025-11-15 06:35:27.637 INFO 2702 --- [main] b.e.calc.plus.CalculatorPlusApplication : No active profile set, falling back to default profiles: default
2025-11-15 06:35:30.549 INFO 2702 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2025-11-15 06:35:30.674 INFO 2702 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 114 ms. Found 3 JPA repository interfaces.
2025-11-15 06:35:31.468 INFO 2702 --- [main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.security.access.expression.method.DefaultMethodSecurityExpressionHandler@774698ab' of type [org.springframework.security.access.expression.method.DefaultMethodSecurityExpressionHandler] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)
2025-11-15 06:35:31.483 INFO 2702 --- [main] trationDelegate$BeanPostProcessorChecker : Bean 'methodSecurityMetadataSource' of type [org.springframework.security.access.method.DelegatingMethodSecurityMetadataSource] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)

```

Figura 11: Iniciando a aplicação Spring Boot

```

usuario usuario0_
2025-11-15 07:16:23.213 INFO 3989 --- [main] b.e.calc.plus.CalculatorPlusApplication : ##### Calculator Web - Started #####
2025-11-15 07:17:30.654 INFO 3989 --- [nio-9000-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2025-11-15 07:17:30.655 INFO 3989 --- [nio-9000-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2025-11-15 07:17:30.658 INFO 3989 --- [nio-9000-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 2 ms
Hibernate:
select
  count(*) as col_0_0_
from
  usuario usuario0_
Hibernate:
select
  sum(partida0_.bonificacao) as col_0_0_
from
  partida partida0_
Hibernate:
select
  count(jogo0_.idjogo) as col_0_0_
from
  jogo jogo0_
where
  jogo0_.resultado<>jogo0_.resposta
Hibernate:
select
  count(jogo0_.idjogo) as col_0_0_
from
  jogo jogo0_
where
  jogo0_.resultado=jogo0_.resposta
Hibernate:
select
  count(jogo0_.idjogo) as col_0_0_
from
  jogo jogo0_ cross
join
  partida partidal_
where
  jogo0_.partida=partidal_.id
  and jogo0_.resultado=jogo0_.resposta
  and partidal_.data=?

```

Figura 12: Aplicação rodando e tela de login