

# DevOps

## Class Assignment 5 - Part 2

### CA5 - Continuous Integration / Continuous Delivery

#### Overview

In the present assignment, CA5, we take on continuous integration and delivery from the perspective of pipelining. "Pipelining is a continuous delivery service that automates the building, testing, and deployment of your software into production. Continuous delivery is a software development methodology where the release process is automated. Every software change is automatically built, tested, and deployed to production. Before the final push to production, a person, an automated test, or a business rule decides when the final push should occur. Although every successful software change can be immediately released to production with continuous delivery, not all changes need to be released right away.

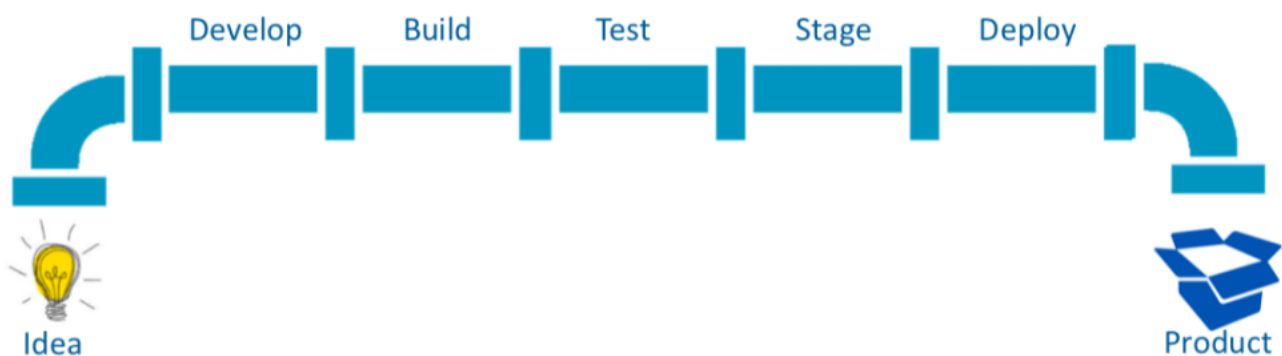
Continuous integration is a software development practice where members of a team use a version control system and frequently integrate their work to the same location, such as a main branch. Each change is built and verified to detect integration errors as quickly as possible. Continuous integration is focused on automatically building and testing code, as compared to continuous delivery, which automates the entire software release process up to production."

In short "Continuous integration (CI) is the practice of merging all developer working copies to a shared mainline several times a day.", and "Continuous delivery (CD) is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time." In this assignment we

will learn how to script our pipeline, that is, a set of strategies that allows organizations to deliver new features faster and efficiently create an efficient and repeatable process to develop software. We will be continuing this subject but now we will make use of containers also, that is, we will also script for a container image to be built and pushed to docker hub using Docker.

On the other hand we will also develop the assignment with an alternative to Jenkins. For this I choose TeamCity from JetBrains. The goal of Part 2 is to pipeline with Jenkins using CA2\_Part\_2 project developing the following tasks:

- 1 - Define the following stages in your pipeline:
  - 1.1 - Checkout. To checkout the code from the repository
  - 1.2 - Assemble. Compiles and Produces the archive files with the application.
  - 1.3 - Test. Executes the Unit Tests and publish in Jenkins the Test results.
  - 1.4 - Javadoc. Generates the javadoc of the project and publish it in Jenkins
  - 1.5 - Archive. Archives in Jenkins the archive files (generated during Assemble)
  - 1.6 - Publish Image. Generate a docker image with Tomcat and the war file and



For configuring the pipeline we will be using Jenkins and TeamCity.

## Analysis

Jenkins is an open source automation server. It helps automate the parts of software development related to building, testing, and deploying, facilitating continuous integration and continuous delivery. It is a server-based system that runs in servlet containers such as Apache Tomcat. It supports version control tools, including AccuRev, CVS, Subversion, Git, Mercurial, Perforce, ClearCase and RTC, and can execute Apache Ant, Apache Maven and sbt based projects as well as arbitrary shell scripts and Windows batch commands.

[TeamCity](#) is a build management and continuous integration server from JetBrains. And it is very similar to Jenkins. It has a free trial period of 14 days that will be used to

develop this assignment. We will be using Jenkins and TeamCity to pipeline our CA2\_Part\_2 Project. I scripted stages in a Jenkinsfile for the assignment tasks for Jenkins, and for teamCity I configured Build Steps also for the tasks.

"Jenkins is an open source continuous integration tool, while TeamCity is a proprietary offering from JetBrains. TeamCity is easier to configure and more straightforward to use, while Jenkins has a rich plugin ecosystem and integrations." After using the two I liked TeamCity better because I was faster than Jenkins. With Jenkins we have to know how to script our stages and that has bigger learning curve than with TeamCity that as a GUI with all the options tha we have to set up build steps. We just have to read the options an easily we can make our set up faster. But Jenkins is a open source tool and TeamCity is paid service and this can be a drawback for some companies. In the end I found easier to use TeamCity than Jenkins. Capabilities wise they are very equivalent. For the scope of this assignment I found that non of them are lacking for the tasks at hand.



# Jenkins



# TeamCity

## Implementation - Pipelining With Jenkins

# Step 1 - Install Jenkins

Like it was mentioned before Jenkins is a open source automation server, that means that it needs to be deployed before using it. For that we have two options. We can deploy it in a container or use a .war file to deploy it. The first option implies the use of Docker and there for more Disk space, the other less disk space. Since I am running low on physical space for this assignment I will be using the .war file. We can download the official Jenkins.war from:

```
https://updates.jenkins.io/download/war/
```

Now for using it we have to start the server using the following command at the Jenkins.war location:

```
java -jar jenkins.war --httpPort=9090
```

The **--httpPort=9090** forces the deployment at <http://localhost:9090>. The default value will be port 8080.

I will be running it in port 9090 because 8080 is the port we are running the springBoot tomcat server for the SWitCH main project. For more information we can visit:

```
https://www.jenkins.io/doc/book/installing/war-file/
```

When we access <http://localhost:9090/> for the first time we will have to configure our credentials for Jenkins. After this we are ready for starting to configure our [Pipeline](#).

## Step 2 - Configuring Jenkins Pipeline (18e072d)

Configuring the pipeline is easy, we just have to enter our repository link, credentials and if we want to write the scrip directly on Jenkins or if we use a [Jenkinsfile](#) from the Source Control Management(SCM). In my case I will be using a Jenkins file at the root of the project CA2\_Part\_2.

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://PMonteiro1211790@bitbucket.org/pmonteiro1211790/devops-21-22-lmn-1211790.git

Credentials ?

PM\_BitBucket\_Credentials

+ Add

Avançadas...

Add Repository

Script Path ?

CA2\_Part\_1/gradle\_basic\_demo/Jenkinsfile

## Step 3 - Scripting Steps for Our Build (d2ccdd9 / 0379090 / d486659 / 1ce4ace)

Now we are ready to define the build steps for our project:

- 1.1 - Checkout. To checkout the code from the repository
- 1.2 - Assemble. Compiles and Produces the archive files with the application.
- 1.3 - Test. Executes the Unit Tests and publish in Jenkins the Test results.
- 1.4 - Javadoc. Generates the javadoc of the project and publish it in Jenkins
- 1.5 - Archive. Archives in Jenkins the archive files (generated during Assemb
- 1.6 - Publish Image. Generate a docker image with Tomcat and the war file and

For steps 1.1, 1.2, 1.3 and 1.5 we have already developed them in the first part. It will be similar:

```
stages {
    //To checkout the code from the repository
    stage('Checkout') {
        steps {
            echo 'Checking out...'
            git credentialsId: 'PM_BitBucket_Credentials', url: 'https://
        }
    }
    //Compiles and Produces the archive files with the application.
    //Do not use the build task of gradle (because it also executes the tests
```



```

        reportName: '1211790_javadocs',
        reportFiles: 'index.html',
    ]})
}
}
}
}
}

```

#### HTML Publisher plugin 1.30

This plugin publishes HTML reports.

[Report an issue with this plugin](#)

The hard part of this assignment was to integrate Docker with Jenkins. Like with all 3rd party integration with Jenkins, we need a plugin for Docker integration and to script the stage for building container image and for pushing it to Docker Hub. Before moving forward I created a new set of credentials in Jenkins for the Docker Hub, and scripted environmental variables so that these were accessible for using in the build and push process the container image:

```

environment {
    registry = "pmonteiro1211790/devops-21-22-lmn-1211790"
    registryCredential = "PMonteiro_DockerHub_Credentials"
    dockerimage = ""
    //DOCKER_HUB_CREDENTIALS = credentials("PMonteiro_DockerHub_Credentials")
}

```

Like we have seen in past assignments, we must have a Dockerfile to build an image from. So the first step was to script a Dockerfile for our image:

```

FROM tomcat:8-jdk8-temurin

RUN pwd

RUN apt-get update

RUN apt-get install openjdk-8-jdk-headless -y

COPY /build/libs/reac-and-spring-data-rest-basic-0.0.1-SNAPSHOT.war /usr/local/to

RUN rm -Rf /tmp/build

EXPOSE 3500

```

This time we are using the COPY strategy. First we build the image then it's copied to the container in the image building process. Now we are ready for scripting the container image building Stage:

```
//Builds Container Image
stage('Build Image') {
    steps {
        script{
            dir('CA2_Part_2/') {
                echo 'Building Docker Image...'
                dockerImage = docker.build registry + ":${env.BUILD_ID}"
            }
        }
    }
}
```

And then pushing it to docker registry:

```
//Publishes Container Image to Docker Hub
stage('Publish Image') {
    steps {
        script{
            dir('CA2_Part_2/') {
                echo 'Publishing Docker Image...'
                //bat 'echo $DOCKER_HUB_CREDENTIALS_PSW | docker login -u
                docker.withRegistry('', registryCredential) {
                    dockerImage.push()
                }
            }
        }
    }
}
```

#### Docker Pipeline 1.28

Build and use Docker containers from pipelines.

[Report an issue with this plugin](#)

Now we can take a look at the entirety of the script:

```
pipeline {
    agent any
```



```

environment {
    registry = "pmonteiro1211790/devops-21-22-lmn-1211790"
    registryCredential = "PMonteiro_DockerHub_Credentials"
    dockerimage = ""

    //DOCKER_HUB_CREDENTIALS = credentials("PMonteiro_DockerHub_Credentials")
}

stages {
    //To checkout the code from the repository
    stage('Checkout') {
        steps {
            echo 'Checking out...'
            git credentialsId: 'PM_BitBucket_Credentials', url: 'https://
        }
    }
    //Compiles and Produces the archive files with the application.
    //Do not use the build task of gradle (because it also executes the tests
    stage('Build') {
        steps {
            dir('CA2_Part_2/') {
                echo 'Assembling Project...'
                script {
                    bat 'dir'
                    bat 'gradle clean assemble'
                    bat 'gradle testClasses'
                }
            }
        }
    }
    //Executes Unit Tests
    stage('Test') {
        steps {
            dir('CA2_Part_2/') {
                echo 'Testing 1...2...3...'
                script {
                    bat 'dir'
                    bat 'gradle check'
                    bat 'gradle test'
                }
            }
        }
    }
    //Generates the javadoc of the project and publish it in Jenkins
    stage('Publish Javadoc') {
        steps {
            dir('CA2_Part_2/') {
                echo 'Publishing JavaDocs'
                bat 'gradle Javadoc'
                script {
                    publishHTML (target: [
                        allowMissing: false,

```

```

        keepAll: true,
        reportDir: 'build/docs/javadoc/',
        reportName: '1211790_javadocs',
        reportFiles: 'index.html',
    })
}
}
}
}
//Generates artifacts of the project and publish it in Jenkins(.war file)
stage('Archiving') {
    steps {
        dir('CA2_Part_2/') {
            echo 'Archiving...'
            archiveArtifacts 'build/libs/'
        }
    }
}
//Builds Container Image
stage('Build Image') {
    steps {
        script{
            dir('CA2_Part_2/') {
                echo 'Building Docker Image...'
                dockerImage = docker.build registry + ":${env.BUILD_ID}"
            }
        }
    }
}
//Publishes Container Image to Docker Hub
stage('Publish Image') {
    steps {
        script{
            dir('CA2_Part_2/') {
                echo 'Publishing Docker Image...'
                //bat 'echo $DOCKER_HUB_CREDENTIALS_PSW | docker login -u
                docker.withRegistry('', registryCredential) {
                    dockerImage.push()
                }
            }
        }
    }
}
}
//Archives Unit Tests Results
post {
    always {
        dir('CA2_Part_2/') {
            script {
                junit testResults: '**/test-results/**/*.xml'
            }
        }
    }
}

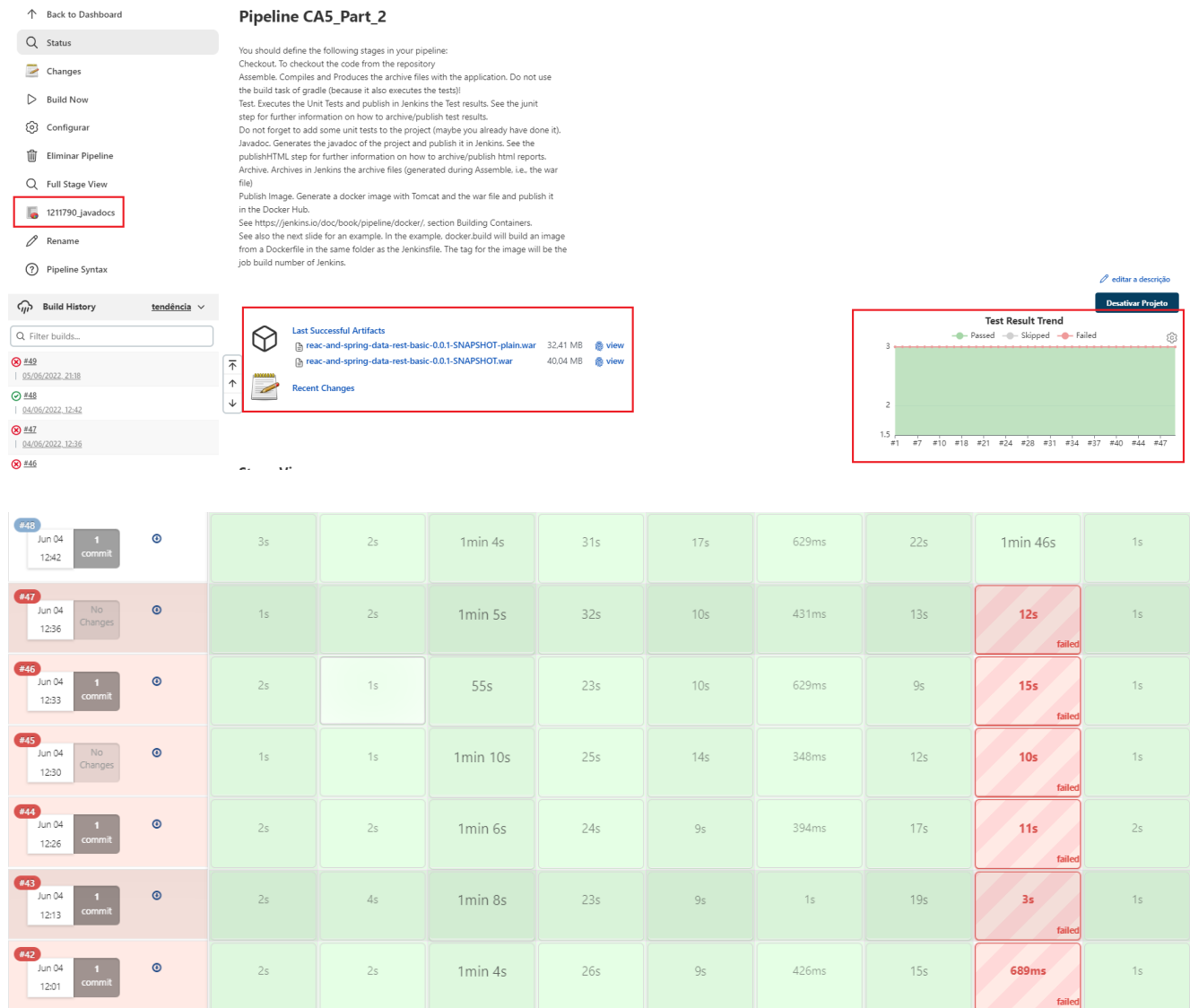
```

```

    }
  }
}

```

After running our build, and it was successful, all the artifacts were stored, including Javadocs. Tests were successful:



Container image was built:

```

Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Building Docker Image...
[Pipeline] isUnix
[Pipeline] withEnv
[Pipeline] {
[Pipeline] bat

```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>docker build -t "pmonteir
#1 [internal] load build definition from Dockerfile
#1 sha256:760222b79e511240f9ae68b9826de9b6b22e4f3ab8d24c46bffa78cd1bdcc8b5
#1 transferring dockerfile: 32B 0.0s done
#1 DONE 0.1s

#2 [internal] load .dockerignore
#2 sha256:37d2e175560dfa2e3f195cde48c8b9c4c29e0bd55921e378d3a7e9d2c8290cc3
#2 transferring context: 2B done
#2 DONE 0.1s

#3 [internal] load metadata for docker.io/library/tomcat:8-jdk8-temurin
#3 sha256:c1b4b89652076c03937543287e4f0a807ab57ece82bbf437c3dc9bf6d0b83422
#3 ...

#4 [auth] library/tomcat:pull token for registry-1.docker.io
#4 sha256:233c9952183748a87bb1cf3987106940a4650d362ce22ba5f63bd4ff0e247bc3
#4 DONE 0.0s

#3 [internal] load metadata for docker.io/library/tomcat:8-jdk8-temurin
#3 sha256:c1b4b89652076c03937543287e4f0a807ab57ece82bbf437c3dc9bf6d0b83422
#3 DONE 6.2s

#5 [1/6] FROM docker.io/library/tomcat:8-jdk8-temurin@sha256:804e018f68b6a62ee567
#5 sha256:efeadd1453ccdb995ee10fb84025b7132a4e5251cc7a302df5ec1efb33e844c5
#5 DONE 0.0s

#9 [internal] load build context
#9 sha256:8b006772c6e3bf7af29b389248134b2c348ba190c783b540930aae4940e39be3
#9 transferring context: 2.65MB 0.1s
#9 transferring context: 42.00MB 1.1s done
#9 DONE 1.1s

#7 [3/6] RUN apt-get update
#7 sha256:27dfb79c5545261890f4472116276d4fdfce05f279009f411e4499a48551aa9b
#7 CACHED

#6 [2/6] RUN pwd
#6 sha256:f05422145b41000b0dc95dab5bfa1bfa0d923b99372a973492bc0b1938028e20
#6 CACHED

#8 [4/6] RUN apt-get install openjdk-8-jdk-headless -y
#8 sha256:05be8c53d1781eb074236105b87946c4d6e01fae0f49223eeafa4880ae140aa9
#8 CACHED

#10 [5/6] COPY /build/libs/reac-and-spring-data-rest-basic-0.0.1-SNAPSHOT.war /us
#10 sha256:6ae1242f1a0a2dc46cf63940a814ce7d3e881d0e3d2b816e0a40e18776ea0437
#10 DONE 2.1s

#11 [6/6] RUN rm -Rf /tmp/build
#11 sha256:893a852e0db51a114ee218b1120bdd5e160f16ac54889a6ab1195a1e72bf95cb
#11 DONE 1.2s
```

```
#12 exporting to image
#12 sha256:e8c613e07b0b7ff33893b694f7759a10d42e180f2b4dc349fb57dc6b71dcab00
#12 exporting layers
#12 exporting layers 0.6s done
#12 writing image sha256:875247b61f7762abb4b46b09f66a93227e4695503ae9f0034ebacd48
#12 writing image sha256:875247b61f7762abb4b46b09f66a93227e4695503ae9f0034ebacd48
#12 naming to docker.io/pmonteiro1211790/devops-21-22-lmn-1211790:48 0.0s done
#12 DONE 0.7s
```

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and le


And pushed to [DockerHub](#). (As suggested, Image name was the number of the current Jenkins build):


```
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Publishing Docker Image...
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withDockerRegistry
Using the existing docker config file.Removing blacklisted property: authsRemovin
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded
[Pipeline] {
[Pipeline] isUnix
[Pipeline] withEnv
[Pipeline] {
[Pipeline] bat


C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>docker tag "pmonteiro1211
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] isUnix
[Pipeline] withEnv
[Pipeline] {
[Pipeline] bat

C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>docker push "pmonteiro121
The push refers to repository [docker.io/pmonteiro1211790/devops-21-22-lmn-121179
5f70bf18a086: Preparing
ca1f1b43241a: Preparing
aaab4da0e761: Preparing
40e01170a457: Preparing
5f70bf18a086: Preparing
081adc8dec80: Preparing
3eb9f3e83933: Preparing
4843b69753d4: Preparing
0bac03fe9152: Preparing
-
```

4f96ec67c179: Preparing  
3eb9f3e83933: Waiting  
4843b69753d4: Waiting  
0bac03fe9152: Waiting  
fb76f8b34fda: Preparing  
bf8cedc62fb3: Preparing  
4f96ec67c179: Waiting  
fb76f8b34fda: Waiting  
bf8cedc62fb3: Waiting  
5f70bf18a086: Layer already exists  
081adc8dec80: Pushed  
4843b69753d4: Layer already exists  
0bac03fe9152: Layer already exists  
4f96ec67c179: Layer already exists  
fb76f8b34fda: Layer already exists  
bf8cedc62fb3: Layer already exists  
ca1f1b43241a: Pushed  
3eb9f3e83933: Pushed  
40e01170a457: Pushed  
aaab4da0e761: Pushed  
48: digest: sha256:ef9dc3b283236537147eee4bab918bec7c76a2c7c38ce3317953ba425964e7

 pmonteiro1211790 / devops-21-22-lmn-1211790

SWitCH\_DevOps\_Pedro\_Monteiro\_1211790 

 Last pushed: 8 hours ago

Docker commands

[Public View](#)






To push a new tag to this repository,

```
docker push pmonteiro1211790/devops-21-22-lmn-1211790:tagname
```

Tags and Scans

VULNERABILITY SCANNING - DISABLED [Enable](#)

This repository contains 6 tag(s).

TAG	OS	PULLED	PUSHED
48		---	8 hours ago
ca4_part_2_webv2		---	17 days ago
ca4_part_2_web		17 days ago	17 days ago
ca4_part_2_db		---	17 days ago
v2		---	21 days ago

[See all](#)

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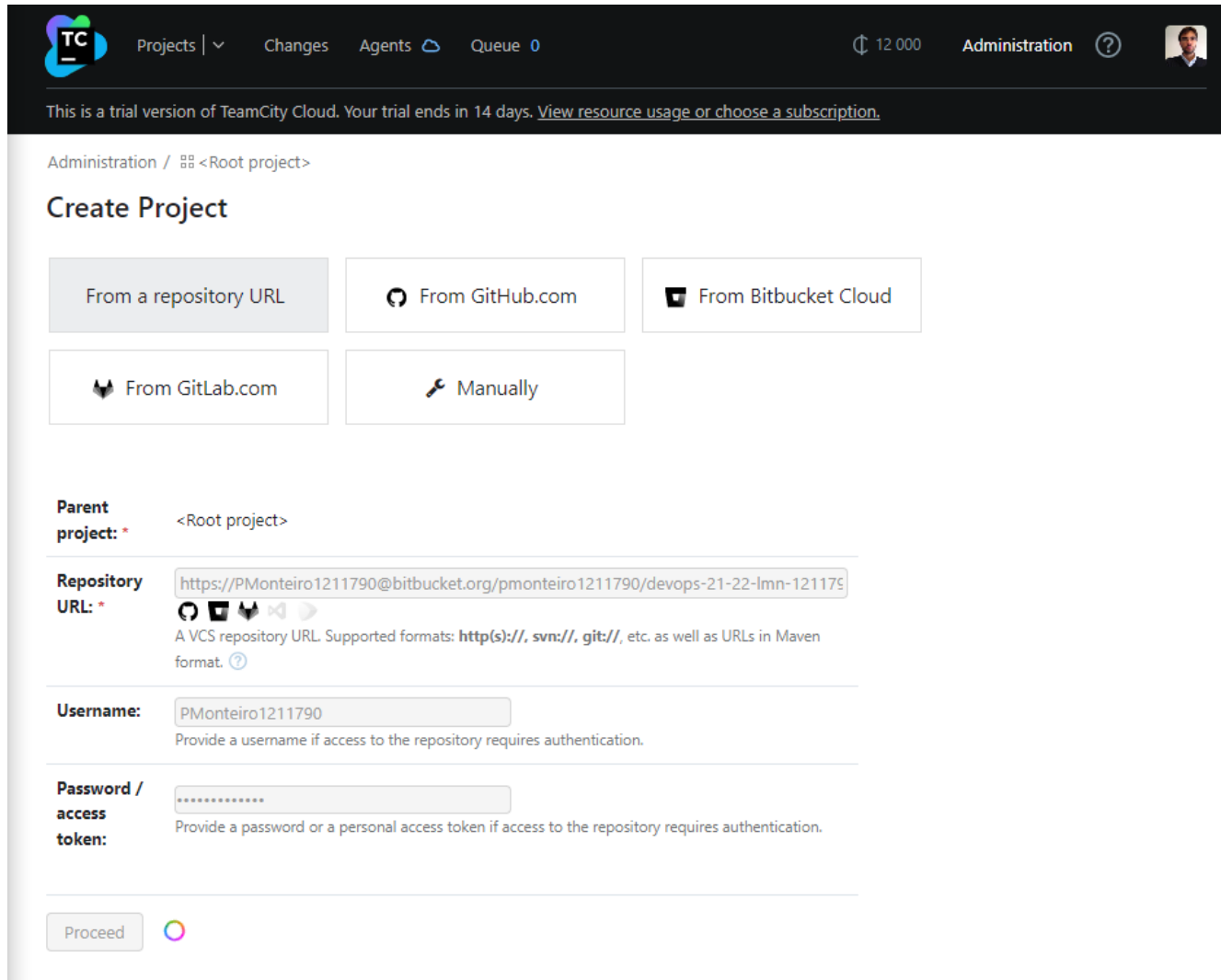
This concludes the tasks for this assignment. I have successfully configured a Jenkins pipeline to build a project. Now I will do the same with the researched alternative TeamCity.

## Implementation - Pipelining With TeamCity

# Step 1 - Configuring Pipeline (c5f45f6)

As stated before I will be using TeamCity from JetBrains. They offer a 14-day trial period that is more than enough for completing assignment tasks.

After login the first step is to create a project in TeamCity. At this point we can connect it to bitbucket repository:



The screenshot shows the TeamCity web interface. The top navigation bar includes 'Projects', 'Changes', 'Agents', and 'Queue'. A trial notice states: 'This is a trial version of TeamCity Cloud. Your trial ends in 14 days. [View resource usage or choose a subscription.](#)'

The main section is titled 'Create Project' under the 'Administration / <Root project>' breadcrumb. It offers five options to create a project from a repository: 'From a repository URL', 'From GitHub.com', 'From Bitbucket Cloud', 'From GitLab.com', and 'Manually'. The 'From Bitbucket Cloud' option is selected.

Below the options, the 'Parent project' is set to '<Root project>'. The 'Repository URL' field contains the Bitbucket URL: `https://PMonteiro1211790@bitbucket.org/pmonteiro1211790/devops-21-22-lmn-1211790`. A note explains that VCS repository URLs are supported in formats like `http(s)://`, `svn://`, and `git://`, as well as Maven format.

The 'Username' field is filled with 'PMonteiro1211790', with a note: 'Provide a username if access to the repository requires authentication.' The 'Password / access token' field is masked with dots, with a note: 'Provide a password or a personal access token if access to the repository requires authentication.'

At the bottom, there is a 'Proceed' button and a small rainbow-colored icon.

If we create a project from a remote repository the link will be established and TeamCity readies everything for us to start and configure our build steps. Before that I added a connection to docker because we need it for the final step of pushing built container image to docker registry:

## Connections

Supported types of connections: Amazon ECR, Azure DevOps OAuth 2.0, Azure DevOps PAT, Bitbucket Cloud, Docker Registry, GitHub Enterprise, GitHub.com, GitLab CE/EE, GitLab.com, JetBrains Space, NPM Registry, Octopus Deploy, Perforce Administrator Access, Slack.

Connection successfully created

+ Add Connection

Connection	Parameters Description
GitHub.com	Client ID: da3eab5...
Bitbucket Cloud	Key: wcMfcSx...
GitLab.com	GitLab server URL: https://gitlab.com, application Id: e291e49...
Docker Registry	https://pmonteiro1211790@docker.io <span>Edit</span> <span>Delete</span>

Now we are ready to start and configure our build steps.

## Step 2 - Configuring Steps for Our Build (c5f45f6)

There are two reasons why I found TeamCity easier to handle than Jenkins. First, is that we don't need to script build steps and know a specific scripting language and syntax. And secondly, TeamCity has 3rd party integration already included, at least for the most common frameworks like docker, we don't need to install plugins. We just have to do it through the graphical user interface:

Name: \*

Devops 21 22 Lmn 1211790 (1)

Project ID: \*

Devops2122Lmn12117901

Regenerate ID

Description:

Default template:

<No default template selected>

The template will be attached to all build configurations in this project and its subprojects unless redefined in a subproject.

Enforced settings template:

<No enforced settings template selected>

The enforced settings template imposes its settings on all build configurations in the project and its subprojects without ability to disable or redefine them.

Hide advanced options

Save

Cancel

Build Configurations

Build configurations define how to retrieve and build sources of a project.

+ Create build configuration

Name	Build Steps
CAS_Part_2 CAS_Part_2 - Alternative	Build_Classes, Build_Test_Classes, Check_Build, Run_Tests, Generate JavaDoc, Docker Build Container Image, Docker_Push_Container_Image <span>Edit</span> <span></span>

Build Configuration Templates

Build configuration templates define settings that can be reused by different build configurations.

+ Create template

Subprojects

Subprojects can be used to group build configurations and define projects hierarchy within a single project.

+ Create subproject



Build Steps

In this section you can configure the sequence of build steps to be executed. Each build step is represented by a build runner and provides integration with a specific build or test tool.

+ Add build step

Reorder build steps

Auto-detect build steps

Build Step	Parameters	Description	
1. Build_Classes	Gradle	Gradle tasks: clean assemble Use wrapper script: yes Execute: If all previous steps finished successfully	Edit
2. Build_Test_Classes	Gradle	Gradle tasks: testClasses Use wrapper script: yes Execute: If all previous steps finished successfully	Edit
3. Check_Build	Gradle	Gradle tasks: check Use wrapper script: yes Execute: If all previous steps finished successfully	Edit
4. Run_Tests	Gradle	Gradle tasks: test Use wrapper script: yes Execute: If all previous steps finished successfully	Edit
5. Generate JavaDoc	Gradle	Gradle tasks: Javadoc Use wrapper script: yes Execute: If all previous steps finished successfully	Edit
6. Docker Build Container Image	Docker	Docker build; Dockerfile location: CA2_Part_2/Dockerfile Execute: If all previous steps finished successfully	Edit
7. Docker_Push_Container_Image	Docker	docker push pmonteiro1211790/devops-21-22-lmn-1211790:teamcity%build.counter%; remove image(s) after push Execute: If all previous steps finished successfully	Edit

Now we just have to replicate the same steps we did with Jenkins, but there are some important details to consider. First for the test reports we don't have to do anything special TeamCity generates and publishes test reports as long that we have a step were we run them:

Devops 21 22 Lmn 1211790 (1) / CA5\_Part\_2

✓ #13 at 5 Jun 11:36 ★

Tests passed: 3

master Actions Details

Overview Changes Tests Build Log Artifacts Parameters PerfMon

View tests All 3 ✓ 3

Search Without investigator

Investigate... Fix... Mute... Download

Status	Name	Duration	Order
Success	EmployeeTest.test1 com.gregturnquist.payroll	35ms	1
Success	EmployeeTest.test2 com.gregturnquist.payroll	1ms	2
Success	EmployeeTest.test3 com.gregturnquist.payroll	2ms	3

Edit configuration... Run

< 4 Jun >

## Test History: EmployeeTest.test1

com.gregturnquist.payroll

DevOps 21 22 Lmn 1211790 (1) ▾

<All branches> ▾

Investigate...

Fix...

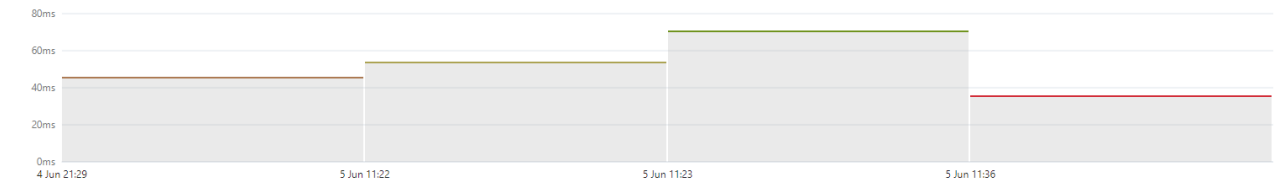
Mute...

### Overview

Investigation History

4 Runs 4 successful

Download Help



Adapt scale

Average

All agents ▾

### History

Status	Duration	Build	Changes	Agent	Started
Success	35ms	master ... / CA5_Part_2 / #13 <span>Tests passed: 3</span>	No changes	Linux-Smal...8851d	5 Jun 11:36
Success	70ms	master ... / CA5_Part_2 / #12 <span>Tests passed: 3</span>	No changes	Linux-Smal...499a5	5 Jun 11:23
Success	53ms	master ... / CA5_Part_2 / #11 <span>Tests passed: 3</span>	No changes	Linux-Smal...55c88	5 Jun 11:22
Success	45ms	master ... / CA5_Part_2 / #10 <span>Tests passed: 3; gradle exception (new); exit code 1 (Step: Generate JavaDoc (Gradle)) (new)</span>	No changes	Linux-Smal...7d0ab	4 Jun 21:29

Second for artifacts publishing, .war files and Javadocs, we have to specify the artifacts path so that he stores them in TeamCity cloud:

Name: \*

Build configuration ID: \* ?

[Regenerate ID](#)

This ID is used in URLs, REST API, HTTP requests to the server, and configuration settings in the TeamCity Data Directory.

Description:

Build configuration type:

Buids of a regular build configuration can have build steps and are executed on agents.

Build number format: \* ?

The format may include '%build.counter%' as a placeholder for the build counter value, for example, **1.%build.counter%**. It may also contain a reference to any other available parameter, for example, **%build.vcs.number.VCSRootName%**. Note: The maximum length of a build number after all substitutions is **256** characters.

Build counter: \* ?

[Reset](#)

Publish artifacts: ?

Specify the artifacts publishing policy.

Artifact paths: ?

[Reset](#)

Newline- or comma-separated paths in the form of **[+:]source [ => target]** to include and **-:source [ => target]** to exclude files or directories to publish as build artifacts. Ant-style wildcards are supported, e.g. use **\*\*/\* => target\_directory**, **-: \*\*/folder1 => target\_directory** to publish all files except for **folder1** into the **target\_directory**.

Build options: ?

☒ enable hanging builds detection

☒ allow triggering personal builds

☐ enable status widget ?

Running builds limit: ?

Total maximum builds in the configuration:

(0 — unlimited)

Per branch rules:

Each line must follow the **branch:number** syntax, where **branch** is either a **logical branch name** or a pattern containing an **\*** and **number** specifies the maximum number of builds which can run simultaneously in each branch matching the pattern. 0 means there is no limit.

Devops 21 22 Lmn 1211790 (1) ★

Edit project...

Configure favorites...

Overview

Investigations

Change Log

Statistics

Current Problems

Muted Problems

Flaky Tests 0

Builds

Trends

Collapse All

CA5\_Part\_2

CA5\_Part\_2 - Alternative

Run

...

...

#24

master

Tests passed: 3

1211790: 1

Linux-Small-i-0d1d3cbc6bc5b0d43

about 11 hours ago

6m 11s

...

Changes

Tests

Build Log

Parameters

Artifacts

Docker info

PerfMon

Time

5 Jun 22:29 — 22:35 (6m 11s)

Queue time 18s

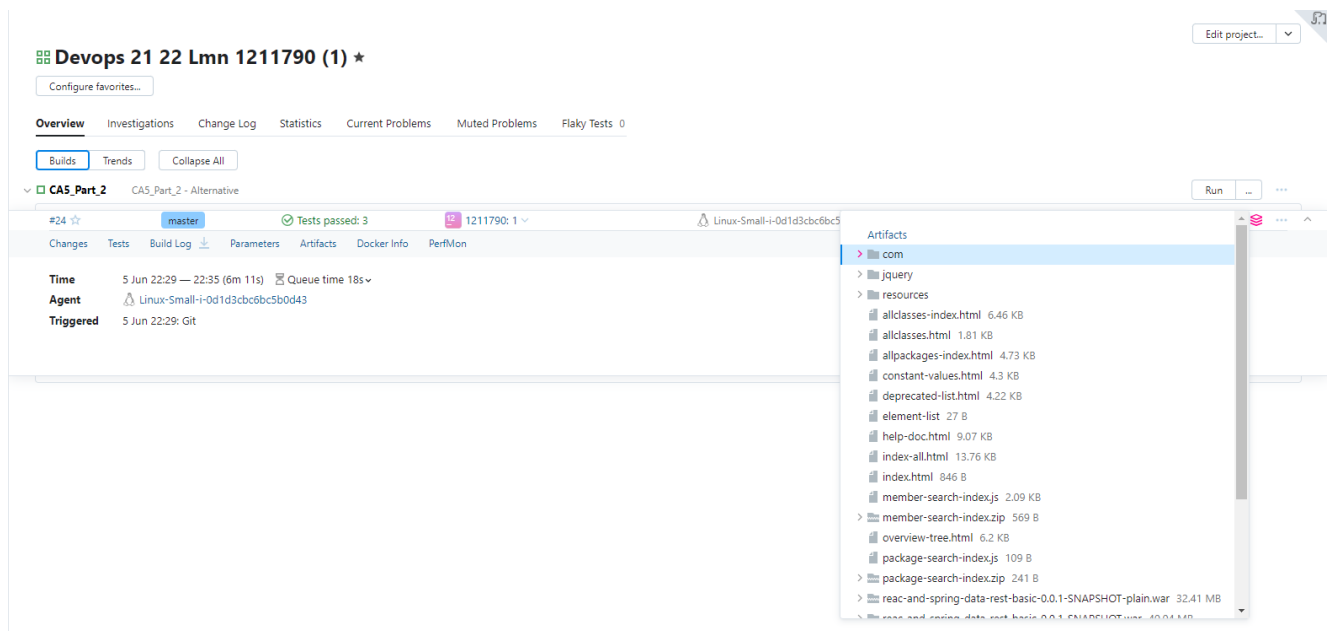
Agent

Linux-Small-i-0d1d3cbc6bc5b0d43

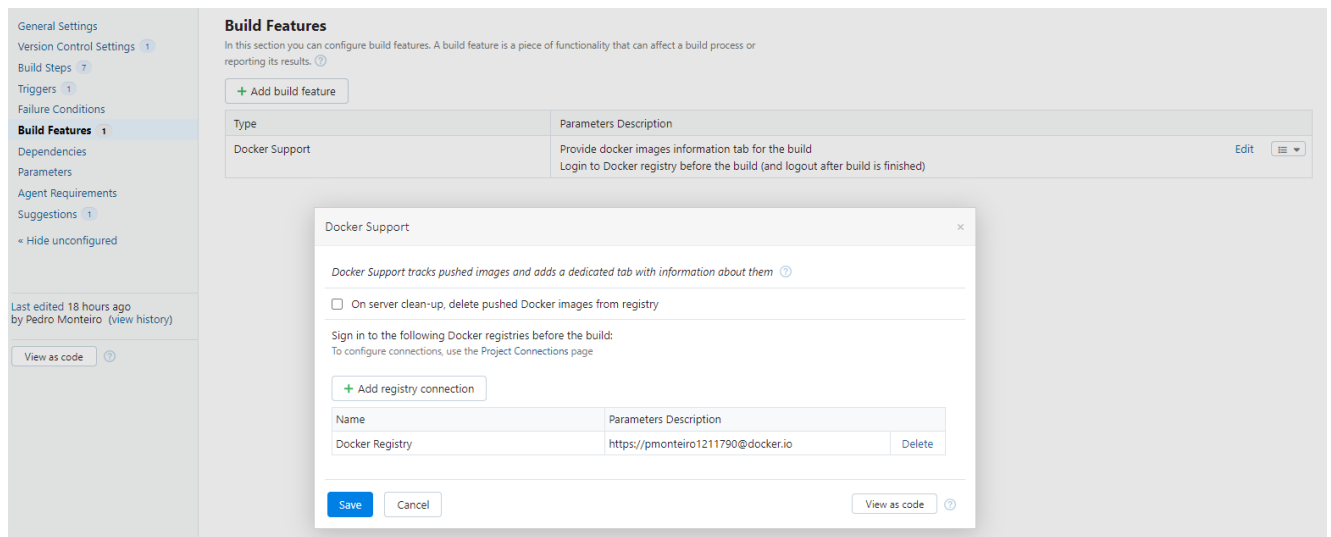
Triggered

5 Jun 22:29: Git





And finally in order for Docker steps (build image and push to registry) to function, we have to add a feature to our project:



The initial configurations are all set now we can replicate the same steps we did with Jenkins in TeamCity:

## 1. Build Classes

## Build Step (1 of 7): Build\_Classes | ▾

[+ Add build step »](#)

Runner type: Gradle ▾

Runner for Gradle projects

Step name: Build\_Classes

Optional, specify to distinguish this build step from other steps.

Execute step: ? If all previous steps finished successfully ▾ Add condition ▾ ?

### Gradle Parameters

Gradle tasks: clean assemble

Enter task names separated by spaces, leave blank to use the 'default' task.  
Example: 'myproject:clean myproject:build' or 'clean build'.

Gradle build file: CA2\_Part\_2/build.gradle

Path to build file, relative to the working directory

Incremental building: ☐ Enable incremental building

:buildDependsOn task will be run on projects affected by changes

Working directory: ?

Optional, set if differs from the checkout directory.

Gradle home path:

Path to the Gradle home directory (parent of 'bin' directory). Overrides agent GRADLE\_HOME environment variable

Additional Gradle command line parameters:

Additional parameters will be added to the 'Gradle' command line.

Gradle Wrapper: ? ☒ Use gradle wrapper to build project

Path to Wrapper script: CA2\_Part\_2

Optional path to the Gradle wrapper script relative to the working directory

### Run Parameters

Debug: ? ☐ Log debug messages

Stacktrace: ? ☐ Print stacktrace

### Java Parameters

JDK: <Default> ▾

JAVA\_HOME environment variable or the agent's own Java.

JVM command line parameters:

### Code Coverage

Choose coverage runner: <No coverage> ▾

### Docker Settings

Run step within Docker container: ?

E.g. ruby:2.4. TeamCity will start a container from the specified image and will try to run this build step within this container.

?

### Parallel Tests Execution

This runner supports automatic [split of tests for parallel execution on different agents](#) ?

## 2.Build Test Classes

## Build Step (2 of 7): Build\_Test\_Classes | ▾

[+ Add build step ▸](#)

**Runner type:** Gradle ▾  
Runner for Gradle projects

**Step name:** Build\_Test\_Classes  
Optional, specify to distinguish this build step from other steps.

**Execute step:** 🔗 If all previous steps finished successfully ▾ Add condition ▾ 🔗

### Gradle Parameters

**Gradle tasks:** testClasses 📄  
Enter task names separated by spaces, leave blank to use the 'default' task.  
Example: 'myproject:clean myproject:build' or 'clean build'.

**Gradle build file:** CA2\_Part\_2/build.gradle 📄 🔗  
Path to build file, relative to the working directory

**Incremental building:** ☐ **Enable incremental building**  
buildDepends task will be run on projects affected by changes

**Working directory:** 🔗 📄 🔗  
Optional, set if differs from the checkout directory.

**Gradle home path:**   
Path to the Gradle home directory (parent of 'bin' directory). Overrides agent GRADLE\_HOME environment variable

**Additional Gradle command line parameters:**  📄  
Additional parameters will be added to the 'Gradle' command line.

**Gradle Wrapper:** 🔗 ☒ **Use gradle wrapper to build project**

**Path to Wrapper script:** CA2\_Part\_2 📄 🔗  
Optional path to the Gradle wrapper script relative to the working directory

### Run Parameters

**Debug:** 🔗 ☐ **Log debug messages**

**Stacktrace:** 🔗 ☐ **Print stacktrace**

### Java Parameters

**JDK:** <Default> ▾  
JAVA\_HOME environment variable or the agent's own Java.

**JVM command line parameters:**  📄

### Code Coverage

**Choose coverage runner:** <No coverage> ▾

### Docker Settings

**Run step within Docker container:** 🔗 📄  
E.g. ruby:2.4. TeamCity will start a container from the specified image and will try to run this build step within this container.  
🔗

### Parallel Tests Execution

This runner supports automatic [split of tests for parallel execution on different agents](#) 🔗

## 3.Check Build

### Build Step (3 of 7): Check\_Build | ▾


+ Add build step »



Runner type: Gradle ▾  
Runner for Gradle projects

Step name: Check\_Build  
Optional, specify to distinguish this build step from other steps.



Execute step: ? If all previous steps finished successfully ▾ Add condition ▾ ?

#### Gradle Parameters


Gradle tasks: check   
Enter task names separated by spaces, leave blank to use the 'default' task.  
Example: 'myproject:clean :myproject:build' or 'clean build'.

Gradle build file: CA2\_Part\_2/build.gradle    
Path to build file, relative to the working directory



Incremental building: ☐ Enable incremental building  
:buildDepends task will be run on projects affected by changes

Working directory: ?     
Optional, set if differs from the checkout directory.

Gradle home path:   
Path to the Gradle home directory (parent of 'bin' directory). Overrides agent GRADLE\_HOME environment variable

Additional Gradle command line parameters:    
Additional parameters will be added to the 'Gradle' command line.

Gradle Wrapper: ? ☒ Use gradle wrapper to build project

Path to Wrapper script: CA2\_Part\_2/    
Optional path to the Gradle wrapper script relative to the working directory

#### Run Parameters

Debug: ? ☐ Log debug messages

Stacktrace: ? ☐ Print stacktrace

#### Java Parameters


JDK: <Default> ▾  
JAVA\_HOME environment variable or the agent's own Java.

JVM command line parameters:  

#### Code Coverage

Choose coverage runner: <No coverage> ▾

#### Docker Settings

Run step within Docker container: ?    
Eg. ruby:2.4. TeamCity will start a container from the specified image and will try to run this build step within this container.  
?

#### Parallel Tests Execution

This runner supports automatic split of tests for parallel execution on different agents ?

## 4.Run Tests

## Build Step (4 of 7): Run\_Tests

[+ Add build step >](#)

Runner type: Gradle  
Runner for Gradle projects

Step name: Run\_Tests  
Optional, specify to distinguish this build step from other steps.

Execute step: If all previous steps finished successfully Add condition

### Gradle Parameters

Gradle tasks: test  
Enter task names separated by spaces, leave blank to use the 'default' task.  
Example: 'myproject:clean myproject:build' or 'clean build'.

Gradle build file: CA2\_Part\_2/build.gradle  
Path to build file, relative to the working directory

Incremental building: ☐ Enable incremental building  
:buildDepends task will be run on projects affected by changes

Working directory:   
Optional, set if differs from the checkout directory.

Gradle home path:   
Path to the Gradle home directory (parent of 'bin' directory). Overrides agent GRADLE\_HOME environment variable

Additional Gradle command line parameters:   
Additional parameters will be added to the 'Gradle' command line.

Gradle Wrapper: ☒ Use gradle wrapper to build project

Path to Wrapper script: CA2\_Part\_2/  
Optional path to the Gradle wrapper script relative to the working directory

### Run Parameters

Debug: ☐ Log debug messages

Stacktrace: ☐ Print stacktrace

### Java Parameters

JDK: <Default>  
JAVA\_HOME environment variable or the agent's own Java.

JVM command line parameters:

### Code Coverage

Choose coverage runners: <No coverage>

### Docker Settings

Run step within Docker container:   
E.g. ruby:2.4, TeamCity will start a container from the specified image and will try to run this build step within this container.

### Parallel Tests Execution

This runner supports automatic [split of tests for parallel execution on different agents](#)

## 5.Generate JavaDoc



### Build Step (5 of 7): Generate JavaDoc | ▾

[+ Add build step »](#)

Runner type:	Gradle ▾ Runner for Gradle projects
Step name:	Generate JavaDoc Optional, specify to distinguish this build step from other steps.
Execute step: ?	If all previous steps finished successfully ▾ Add condition ▾ ?
Gradle Parameters	
Gradle tasks:	Javadoc Enter task names separated by spaces, leave blank to use the 'default' task. Example: 'myproject:clean :myproject:build' or 'clean build'.
Gradle build file:	CA2_Part_2/build.gradle Path to build file, relative to the working directory
Incremental building:	<input type="checkbox"/> Enable incremental building :buildDependsOn task will be run on projects affected by changes
Working directory: ?	 Optional, set if differs from the checkout directory.
Gradle home path:	 Path to the Gradle home directory (parent of 'bin' directory). Overrides agent GRADLE_HOME environment variable
Additional Gradle command line parameters:	 Additional parameters will be added to the 'Gradle' command line.
Gradle Wrapper: ?	<input checked="" type="checkbox"/> Use gradle wrapper to build project
Path to Wrapper script:	CA2_Part_2/ Optional path to the Gradle wrapper script relative to the working directory
Run Parameters	
Debug: ?	<input type="checkbox"/> Log debug messages
Stacktrace: ?	<input type="checkbox"/> Print stacktrace
Java Parameters	
JDK:	<Default> ▾ JAVA_HOME environment variable or the agent's own Java.
JVM command line parameters:	 
Code Coverage	
Choose coverage runner:	<No coverage> ▾
Docker Settings	
Run step within Docker container: ?	 E.g. ruby:2.4, TeamCity will start a container from the specified image and will try to run this build step within this container. ?
Parallel Tests Execution	
This runner supports automatic <a href="#">split of tests for parallel execution on different agents</a> ?	

## 6.Build Container Image

### Build Step (6 of 7): Docker Build Container Image | ▾

[+ Add build step »](#)

Runner type:	Docker ▾ Runner for Docker commands
Step name:	Docker Build Container Image Optional, specify to distinguish this build step from other steps.
Docker command:	<input checked="" type="radio"/> build <input type="radio"/> push <input type="radio"/> other...
Docker Command Parameters	
Dockerfile source: ?	File ▾
Path to file: *	CA2_Part_2/Dockerfile The specified path should be relative to the checkout directory.
Context folder:	 If blank, the folder containing the Dockerfile will be used. Use "." to set to the checkout directory path.
Image platform:	<Any> ▾ Allows to choose compatible agents with a specific docker image OS platform.
Image name:tag	pmonteiro1211790/devops-21-22-1mn-1211790:teamcity%build.counter% Newline-separated list of the image name:tag(s).
Additional arguments for the command:	--pull Additional arguments that will be passed to the docker command.

[🔧 Show advanced options](#)

## 7.Push Container Image

**Build Step (7 of 7): Docker\_Push\_Container\_Image** + Add build step >

Runner type: Docker  
Runner for Docker commands

Step name: Docker\_Push\_Container\_Image  
Optional, specify to distinguish this build step from other steps.

Docker command: ☐ build ☒ push ☐ other...

Docker Command Parameters

Remove image from agent after push ☒ If selected, TeamCity will remove image with `docker rmi` at the end of the step

Image name:tag \* pmonteiro1211790/devops-21-22-lmn-1211790:teamcity%build.counter%  
Newline-separated list of the image name:tag(s).

Additional arguments for the command:   
Additional arguments that will be passed to the docker command.

[Show advanced options](#)

pmonteiro1211790 / devops-21-22-lmn-1211790

SWitCH\_DevOps\_Pedro\_Monteiro\_1211790 [✎](#)

Last pushed: 4 minutes ago

Docker commands [Public View](#)

To push a new tag to this repository,

```
docker push pmonteiro1211790/devops-21-22-lmn-1211790:tagname
```

**Tags and Scans** VULNERABILITY SCANNING - DISABLED [Enable](#)

This repository contains 7 tag(s).

TAG	OS	PULLED	PUSHED
teamcity19		---	4 minutes ago
48		---	a day ago
ca4_part_2_webv2		---	18 days ago
ca4_part_2_web		18 days ago	18 days ago
ca4_part_2_db		---	18 days ago

[See all](#)

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All these build steps are easy to configure from the GUI, but of course like any other framework this is translated to code. TeamCity as an option to view the steps as code. And what I did is translated to a very similar script we did with Jenkins:

```
package _Self.buildTypes
```

```
import jetbrains.buildServer.configs.kotlin.*
import jetbrains.buildServer.configs.kotlin.buildFeatures.dockerSupport
import jetbrains.buildServer.configs.kotlin.buildSteps.dockerCommand
import jetbrains.buildServer.configs.kotlin.buildSteps.gradle
import jetbrains.buildServer.configs.kotlin.triggers.vcs
```

```
object Ca5Part2 : BuildType({
    name = "CA5_Part_2"
    description = "CA5_Part_2 - Alternative"
```

```
    artifactRules = """
        CA2_Part_2/build/libs/
```

```

        CA2_Part_2/build/docs/javadoc/
    """).trimIndent()

vcs {
    root(HttpsPMonteiro1211790bitbucketOrgPmonteiro1211790devops2122lmn121179

    cleanCheckout = true
}

steps {
    gradle {
        name = "Build_Classes"
        tasks = "clean assemble"
        buildFile = "CA2_Part_2/build.gradle"
        gradleWrapperPath = "CA2_Part_2"
    }
    gradle {
        name = "Build_Test_Classes"
        tasks = "testClasses"
        buildFile = "CA2_Part_2/build.gradle"
        gradleWrapperPath = "CA2_Part_2"
    }
    gradle {
        name = "Check_Build"
        tasks = "check"
        buildFile = "CA2_Part_2/build.gradle"
        gradleWrapperPath = "CA2_Part_2/"
    }
    gradle {
        name = "Run_Tests"
        tasks = "test"
        buildFile = "CA2_Part_2/build.gradle"
        gradleWrapperPath = "CA2_Part_2/"
    }
    gradle {
        name = "Generate_JavaDoc"
        tasks = "Javadoc"
        buildFile = "CA2_Part_2/build.gradle"
        gradleWrapperPath = "CA2_Part_2/"
    }
    dockerCommand {
        name = "Docker Build Container Image"
        commandType = build {
            source = file {
                path = "CA2_Part_2/Dockerfile"
            }
            namesAndTags = "pmonteiro1211790/devops-21-22-lmn-1211790:teamcit
            commandArgs = "--pull"
        }
    }
    dockerCommand {
        name = "Docker_Push_Container_Image"
        commandType = push {

```

```

        commandType = push {
            namesAndTags = "pmonteiro1211790/devops-21-22-lmn-1211790:teamcit
        }
    }
}

triggers {
    vcs {
    }
}

features {
    dockerSupport {
        loginToRegistry = on {
            dockerRegistryId = "PROJECT_EXT_2"
        }
    }
}
}
}

```

Now everything is in order, and we can run the build:

The screenshot shows a TeamCity build interface. At the top, it indicates the build is for 'Devops 21 22 Lmn 1211790 (1)' and 'CA5\_Part\_2'. The build status is green, labeled '#19 at 5 Jun 12:38', with 'Tests passed: 3'. Below this, there are tabs for 'Overview', 'Changes', 'Tests', 'Build Log' (selected), 'Artifacts', 'Parameters', 'Docker Info', and 'PerfMon'. The 'Build Log' tab shows a detailed log of the build process, including steps like 'Updating sources: auto checkout', 'Build\_Classes (Gradle)', 'Check\_Build (Gradle)', 'Run\_Tests (Gradle)', 'Generate JavaDoc (Gradle)', 'Docker\_Build Container Image (Docker)', and 'Docker\_Push Container Image (Docker)'. The log ends with 'Build finished' at 12:42:33. On the right side, there is a 'Run' button and a 'Download log' link. At the bottom right, there are 'Scroll to top' and 'To bottom' buttons.

This replicates everything I did with Jenkins with TeamCity.

Like I said before, I like TeamCity more for the simplicity. I took less time with it and had to study less to achieve the same with Jenkins it was more of a challenge to make this assignment. But in the end they seem equivalent and probably for budget reasons many companies use Jenkins since it is open source. Either way I earned very precious knowledge with this assignment.

# End Of Report - @author Pedro Monteiro

## 1211790@isep.ipp.pt

### Annex - Jenkins Successful Build Log

```
Started by user Pedro Miguel Fernandes Monteiro
Obtained CA2_Part_2/Jenkinsfile from git https://PMonteiro1211790@bitbucket.org/p
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\Users\pedro\.jenkins\workspace\CA5_Part_2
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: git.exe
using credential PM_BitBucket_Credentials
> git.exe rev-parse --resolve-git-dir C:\Users\pedro\.jenkins\workspace\CA5_Part_
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://PMonteiro1211790@bitbucket.org/pmonteiro12
Fetching upstream changes from https://PMonteiro1211790@bitbucket.org/pmonteiro12
> git.exe --version # timeout=10
> git --version # 'git version 2.34.0.windows.1'
using GIT_ASKPASS to set credentials PM_BitBucket_Credentials
> git.exe fetch --tags --force --progress -- https://PMonteiro1211790@bitbucket.o
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 1ce4acef9c4af54b843901902e9952dd85d7f95a (refs/remotes/orig
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 1ce4acef9c4af54b843901902e9952dd85d7f95a # timeout=10
Commit message: "Tries to push image to docker hub addresses #53"
> git.exe rev-list --no-walk 664c346165e2ae9f5f37fd8c288977e8e2d5031b # timeout=1
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Checkout)
[Pipeline] echo
Checking out...
[Pipeline] git
The recommended git tool is: git.exe
```

```

using credential PM_BitBucket_Credentials
> git.exe rev-parse --resolve-git-dir C:\Users\pedro\.jenkins\workspace\CA5_Part_
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://PMonteiro1211790@bitbucket.org/pmonteiro12
Fetching upstream changes from https://PMonteiro1211790@bitbucket.org/pmonteiro12
> git.exe --version # timeout=10
> git --version # 'git version 2.34.0.windows.1'
using GIT_ASKPASS to set credentials PM_BitBucket_Credentials
> git.exe fetch --tags --force --progress -- https://PMonteiro1211790@bitbucket.o
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 1ce4acef9c4af54b843901902e9952dd85d7f95a (refs/remotes/orig
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 1ce4acef9c4af54b843901902e9952dd85d7f95a # timeout=10
> git.exe branch -a -v --no-abbrev # timeout=10
> git.exe branch -D master # timeout=10
> git.exe checkout -b master 1ce4acef9c4af54b843901902e9952dd85d7f95a # timeout=1
Commit message: "Tries to push image to docker hub addresses #53"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] dir
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Assembling Project...
[Pipeline] script
[Pipeline] {
[Pipeline] bat

```

```

C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>dir
Volume in drive C is OS
Volume Serial Number is C0E1-E53C

```

Directory of C:\Users\pedro\.jenkins\workspace\CA5\_Part\_2\CA2\_Part\_2

```

04/06/2022  12:42    <DIR>          .
04/06/2022  12:42    <DIR>          ..
01/06/2022  14:38                2ÿ352 .gitignore
01/06/2022  14:38    <DIR>          .gradle
04/06/2022  12:38    <DIR>          build
01/06/2022  14:38                1ÿ484 build.gradle
01/06/2022  18:04                246 Dockerfile
01/06/2022  14:38    <DIR>          gradle
01/06/2022  14:38                8ÿ304 gradlew
01/06/2022  14:38                2ÿ763 gradlew.bat
04/06/2022  12:42                3ÿ918 Jenkinsfile
01/06/2022  14:38    <DIR>          node
04/06/2022  12:37    <DIR>          node_modules
01/06/2022  14:39                232ÿ467 package-lock.json
01/06/2022  14:38                1ÿ152 package.json
01/06/2022  14:38                20ÿ946 README_CA2_Part2.md

```

```
01/06/2022 14:38          54 settings.gradle
01/06/2022 14:38      <DIR>          src
01/06/2022 14:38          674 webpack.config.js
11 File(s)          274ÿ360 bytes
8 Dir(s)  13ÿ963ÿ051ÿ008 bytes free
[Pipeline] bat
```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>gradle clean assemble
Starting a Gradle Daemon, 1 incompatible and 8 stopped Daemons could not be reuse
> Task :installNode UP-TO-DATE
> Task :installYarnGlobally SKIPPED
> Task :enableYarnBerry SKIPPED
> Task :installYarn SKIPPED
```

```
> Task :installFrontend
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsev
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\wat
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1
```

audited 589 packages in 4.238s

25 packages are looking for funding  
run `npm fund` for details

found 1 high severity vulnerability  
run `npm audit fix` to fix them, or `npm audit` for details

```
> Task :cleanFrontend
```

```
> spring-data-rest-and-reactjs@0.1.0 clean C:\Users\pedro\.jenkins\workspace\CA5_
> echo Cleaning frontend
```

Cleaning frontend

```
> Task :deleteWebPackChild
> Task :clean
```

```
> Task :assembleFrontend
```

```
> spring-data-rest-and-reactjs@0.1.0 build C:\Users\pedro\.jenkins\workspace\CA5_
> npm run webpack
```

```
> spring-data-rest-and-reactjs@0.1.0 webpack C:\Users\pedro\.jenkins\workspace\CA
> webpack
```

Hash: d959dd2eb330d1d4f565

Version: webpack 4.46.0

Time: 4826ms

Built at: 04/06/2022 12:42:54

Asset	Size	Chunks	Chunk Names
-------	------	--------	-------------

```
./src/main/resources/static/built/bundle.js 1.08 MiB    main [emitted]          m
./src/main/resources/static/built/bundle.js.map 1.26 MiB    main [emitted] [dev
Entrypoint main = ./src/main/resources/static/built/bundle.js ./src/main/resource
[0] vertx (ignored) 15 bytes {main} [built]
[./node_modules/webpack/buildin/amd-define.js] (webpack)/buildin/amd-define.js 85
[./src/main/js/api/uriListConverter.js] 614 bytes {main} [built]
[./src/main/js/api/uriTemplateInterceptor.js] 497 bytes {main} [built]
[./src/main/js/app.js] 6.06 KiB {main} [built]
[./src/main/js/client.js] 712 bytes {main} [built]
+ 56 hidden modules
```

```
> Task :compileJava
> Task :processResources
> Task :classes
> Task :bootWarMainClassName
> Task :bootWar
> Task :war
> Task :assemble
```

```
BUILD SUCCESSFUL in 54s
11 actionable tasks: 10 executed, 1 up-to-date
[Pipeline] bat
```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>gradle testClasses
> Task :compileJava UP-TO-DATE
> Task :processResources UP-TO-DATE
> Task :classes UP-TO-DATE
> Task :compileTestJava
> Task :processTestResources NO-SOURCE
> Task :testClasses
```

```
BUILD SUCCESSFUL in 7s
3 actionable tasks: 1 executed, 2 up-to-date
```

```
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
```

```
[Pipeline] dir
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Testing 1...2...3...
[Pipeline] script
[Pipeline] {
[Pipeline] bat
```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>dir
Volume in drive C is OS
```



Volume Serial Number is C0E1-E53C

Directory of C:\Users\pedro\.jenkins\workspace\CA5\_Part\_2\CA2\_Part\_2

```
04/06/2022  12:42    <DIR>          .
04/06/2022  12:42    <DIR>          ..
01/06/2022  14:38                2ÿ352 .gitignore
01/06/2022  14:38    <DIR>          .gradle
04/06/2022  12:43    <DIR>          build
01/06/2022  14:38                1ÿ484 build.gradle
01/06/2022  18:04                246 Dockerfile
01/06/2022  14:38    <DIR>          gradle
01/06/2022  14:38                8ÿ304 gradlew
01/06/2022  14:38                2ÿ763 gradlew.bat
04/06/2022  12:42                3ÿ918 Jenkinsfile
01/06/2022  14:38    <DIR>          node
04/06/2022  12:42    <DIR>          node_modules
01/06/2022  14:39                232ÿ467 package-lock.json
01/06/2022  14:38                1ÿ152 package.json
01/06/2022  14:38                20ÿ946 README_CA2_Part2.md
01/06/2022  14:38                54 settings.gradle
01/06/2022  14:38    <DIR>          src
01/06/2022  14:38                674 webpack.config.js
11 File(s)                274ÿ360 bytes
8 Dir(s)  13ÿ963ÿ243ÿ520 bytes free
[Pipeline] bat
```

C:\Users\pedro\.jenkins\workspace\CA5\_Part\_2\CA2\_Part\_2>gradle check

```
> Task :installNode UP-TO-DATE
> Task :installYarnGlobally SKIPPED
> Task :enableYarnBerry SKIPPED
> Task :installYarn SKIPPED
```

```
> Task :installFrontend
```

```
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsev
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\wat
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1
```

audited 589 packages in 4.045s

25 packages are looking for funding  
run `npm fund` for details

found 1 high severity vulnerability

run `npm audit fix` to fix them, or `npm audit` for details

```
> Task :checkFrontend
```

```
> spring-data-rest-and-reactjs@0.1.0 check C:\Users\pedro\.jenkins\workspace\CA5_
> echo Checking frontend
```

Checking frontend

```
> Task :compileJava UP-TO-DATE
> Task :processResources UP-TO-DATE
> Task :classes UP-TO-DATE
> Task :compileTestJava UP-TO-DATE
> Task :processTestResources NO-SOURCE
> Task :testClasses UP-TO-DATE
> Task :test
> Task :check
```

BUILD SUCCESSFUL in 19s

7 actionable tasks: 3 executed, 4 up-to-date

[Pipeline] bat

C:\Users\pedro\.jenkins\workspace\CA5\_Part\_2\CA2\_Part\_2>gradle test

```
> Task :compileJava UP-TO-DATE
> Task :processResources UP-TO-DATE
> Task :classes UP-TO-DATE
> Task :compileTestJava UP-TO-DATE
> Task :processTestResources NO-SOURCE
> Task :testClasses UP-TO-DATE
> Task :test UP-TO-DATE
```

BUILD SUCCESSFUL in 7s

4 actionable tasks: 4 up-to-date

[Pipeline] }

[Pipeline] // script

[Pipeline] }

[Pipeline] // dir

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Publish Javadoc)

[Pipeline] dir

Running in C:\Users\pedro\.jenkins\workspace\CA5\_Part\_2\CA2\_Part\_2

[Pipeline] {

[Pipeline] echo

Publishing JavaDocs

[Pipeline] bat

C:\Users\pedro\.jenkins\workspace\CA5\_Part\_2\CA2\_Part\_2>gradle Javadoc

```
> Task :compileJava UP-TO-DATE
> Task :processResources UP-TO-DATE
> Task :classes UP-TO-DATE
> Task :javadoc
```

BUILD SUCCESSFUL in 16s

3 actionable tasks: 1 executed, 2 up-to-date

[Pipeline] script

[Pipeline] {

[Pipeline] publishHTML

```
[htmlpublisher] Archiving HTML reports...
[htmlpublisher] Archiving at BUILD level C:\Users\pedro\.jenkins\workspace\CA5_Pa
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Archiving)
[Pipeline] dir
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Archiving...
[Pipeline] archiveArtifacts
Archiving artifacts
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build Image)
[Pipeline] script
[Pipeline] {
[Pipeline] dir
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Building Docker Image...
[Pipeline] isUnix
[Pipeline] withEnv
[Pipeline] {
[Pipeline] bat
```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>docker build -t "pmonteir
#1 [internal] load build definition from Dockerfile
#1 sha256:760222b79e511240f9ae68b9826de9b6b22e4f3ab8d24c46bffa78cd1bdcc8b5
#1 transferring dockerfile: 32B 0.0s done
#1 DONE 0.1s

#2 [internal] load .dockerignore
#2 sha256:37d2e175560dfa2e3f195cde48c8b9c4c29e0bd55921e378d3a7e9d2c8290cc3
#2 transferring context: 2B done
#2 DONE 0.1s

#3 [internal] load metadata for docker.io/library/tomcat:8-jdk8-temurin
#3 sha256:c1b4b89652076c03937543287e4f0a807ab57ece82bbf437c3dc9bf6d0b83422
#3 ...

#4 [auth] library/tomcat:pull token for registry-1.docker.io
#4 sha256:233c9952183748a87bb1cf3987106940a4650d362ce22ba5f63bd4ff0e247bc3
```

#4 DONE 0.0s

#3 [internal] load metadata for docker.io/library/tomcat:8-jdk8-temurin  
#3 sha256:c1b4b89652076c03937543287e4f0a807ab57ece82bbf437c3dc9bf6d0b83422  
#3 DONE 6.2s

#5 [1/6] FROM docker.io/library/tomcat:8-jdk8-temurin@sha256:804e018f68b6a62ee567  
#5 sha256:efeadd1453ccdb995ee10fb84025b7132a4e5251cc7a302df5ec1efb33e844c5  
#5 DONE 0.0s

#9 [internal] load build context  
#9 sha256:8b006772c6e3bf7af29b389248134b2c348ba190c783b540930aae4940e39be3  
#9 transferring context: 2.65MB 0.1s  
#9 transferring context: 42.00MB 1.1s done  
#9 DONE 1.1s

#7 [3/6] RUN apt-get update  
#7 sha256:27dfb79c5545261890f4472116276d4fdfce05f279009f411e4499a48551aa9b  
#7 CACHED

#6 [2/6] RUN pwd  
#6 sha256:f05422145b41000b0dc95dab5bfa1bfa0d923b99372a973492bc0b1938028e20  
#6 CACHED

#8 [4/6] RUN apt-get install openjdk-8-jdk-headless -y  
#8 sha256:05be8c53d1781eb074236105b87946c4d6e01fae0f49223eeafa4880ae140aa9  
#8 CACHED

#10 [5/6] COPY /build/libs/reac-and-spring-data-rest-basic-0.0.1-SNAPSHOT.war /us  
#10 sha256:6ae1242f1a0a2dc46cf63940a814ce7d3e881d0e3d2b816e0a40e18776ea0437  
#10 DONE 2.1s

#11 [6/6] RUN rm -Rf /tmp/build  
#11 sha256:893a852e0db51a114ee218b1120bdd5e160f16ac54889a6ab1195a1e72bf95cb  
#11 DONE 1.2s

#12 exporting to image  
#12 sha256:e8c613e07b0b7ff33893b694f7759a10d42e180f2b4dc349fb57dc6b71dcab00  
#12 exporting layers  
#12 exporting layers 0.6s done  
#12 writing image sha256:875247b61f7762abb4b46b09f66a93227e4695503ae9f0034ebacd48  
#12 writing image sha256:875247b61f7762abb4b46b09f66a93227e4695503ae9f0034ebacd48  
#12 naming to docker.io/pmonteiro1211790/devops-21-22-lmn-1211790:48 0.0s done  
#12 DONE 0.7s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and le  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // dir  
[Pipeline] }  
[Pipeline] // script

```
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Publish Image)
[Pipeline] script
[Pipeline] {
[Pipeline] dir
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] echo
Publishing Docker Image...
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withDockerRegistry
Using the existing docker config file.Removing blacklisted property: authsRemovin
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded
[Pipeline] {
[Pipeline] isUnix
[Pipeline] withEnv
[Pipeline] {
[Pipeline] bat
```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>docker tag "pmonteiro1211
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] isUnix
[Pipeline] withEnv
[Pipeline] {
[Pipeline] bat
```

```
C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2>docker push "pmonteiro121
The push refers to repository [docker.io/pmonteiro1211790/devops-21-22-lmn-121179
5f70bf18a086: Preparing
ca1f1b43241a: Preparing
aaab4da0e761: Preparing
40e01170a457: Preparing
5f70bf18a086: Preparing
081adc8dec80: Preparing
3eb9f3e83933: Preparing
4843b69753d4: Preparing
0bac03fe9152: Preparing
4f96ec67c179: Preparing
3eb9f3e83933: Waiting
4843b69753d4: Waiting
0bac03fe9152: Waiting
fb76f8b34fda: Preparing
bf8cedc62fb3: Preparing
4f96ec67c179: Waiting
fb76f8b34fda: Waiting
bf8cedc62fb3: Waiting
5f70bf18a086: Layer already exists
```

```
081adc8dec80: Pushed
4843b69753d4: Layer already exists
0bac03fe9152: Layer already exists
4f96ec67c179: Layer already exists
fb76f8b34fda: Layer already exists
bf8cedc62fb3: Layer already exists
ca1f1b43241a: Pushed
3eb9f3e83933: Pushed
40e01170a457: Pushed
aaab4da0e761: Pushed
48: digest: sha256:ef9dc3b283236537147eee4bab918bec7c76a2c7c38ce3317953ba425964e7
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] dir
Running in C:\Users\pedro\.jenkins\workspace\CA5_Part_2\CA2_Part_2
[Pipeline] {
[Pipeline] script
[Pipeline] {
[Pipeline] junit
Recording test results
[Checks API] No suitable checks publisher found.
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

# Annex - TeamCity Successful Build Log

Build 'Devops 21 22 Lmn 1211790 (1) / CA5\_Part\_2' #24, default branch 'master'  
Triggered 2022-06-05 22:29:30 by 'Git'  
Started 2022-06-05 22:29:48 on agent 'Linux-Small-i-0d1d3cbc6bc5b0d43'  
Finished 2022-06-05 22:35:59 with status NORMAL 'Tests passed: 3'  
VCS revisions: 'Devops2122Lmn12117901\_HttpsPMonteiro1211790bitbucketOrgPmonteiro1  
TeamCity URL <https://devops-21-22-lmn-1211790.teamcity.com/viewLog.html?buildId=3>  
TeamCity server version is (build 108502), server timezone: UTC

[22:29:30]W: bt2 (6m:28s)  
[22:29:30]i: TeamCity server version is 2022.04 (build 108502)  
[22:29:30] : Collecting changes in 1 VCS root  
[22:29:30] : [Collecting changes in 1 VCS root] VCS Root details  
[22:29:30] : [VCS Root details] "https://PMonteiro1211790@bitbucket.o  
[22:29:30]i: [Collecting changes in 1 VCS root] Loading current repository st  
[22:29:30]i: [Loading current repository state for VCS root 'https://  
[22:29:31]i: [Collecting changes in 1 VCS root] Detecting changes in VCS root  
[22:29:31]i: [Collecting changes in 1 VCS root] Will collect changes for 'htt  
[22:29:31] : [Collecting changes in 1 VCS root] Compute revision for 'https://  
[22:29:31] : [Compute revision for 'https://PMonteiro1211790@bitbucke  
[22:29:31]i: [Compute revision for 'https://PMonteiro1211790@bitbucke  
[22:29:31] : [Compute revision for 'https://PMonteiro1211790@bitbucke  
[22:29:31] : [Compute revision for 'https://PMonteiro1211790@bitbucke  
[22:29:31] : [Compute revision for 'https://PMonteiro1211790@bitbucke  
[22:29:31] : [Compute revision for 'https://PMonteiro1211790@bitbucke  
[22:29:47] : The build is removed from the queue to be prepared for the start  
[22:29:47] : Starting the build on the agent "Linux-Small-i-0d1d3cbc6bc5b0d43"  
[22:29:48]i: Agent time zone: Etc/UTC  
[22:29:48]i: Agent is running under JRE: 11.0.15+9-LTS  
[22:29:48] : Updating tools for build  
[22:29:48] : [Updating tools for build] Tools are not required for the build  
[22:29:48]i: Preparing performance monitoring data directory: /mnt/agent/system/p  
[22:29:48]i: Performance monitor is using command line: [perl, /mnt/agent/system/  
[22:29:48]i: Starting performance monitoring process  
[22:29:48]i: Performance monitoring process started  
[22:29:48]i: Docker monitor started with command: /bin/sh -c "docker events --for  
[22:29:49]i: Running docker login: `docker login -u "pmonteiro1211790" --password  
[22:29:49] : Clearing temporary directory: /mnt/agent/temp/buildTmp  
[22:29:49] : Publishing internal artifacts  
[22:29:49] : [Publishing internal artifacts] Publishing 1 file using [WebPubl  
[22:29:49] : [Publishing internal artifacts] Publishing 1 file using [Artifac  
[22:29:50] : Checkout directory: /mnt/agent/work/bb417815b835b033  
[22:29:50] : Updating sources: auto checkout (on agent) (2m:06s)  
[22:29:50] : [Updating sources] Will use agent side checkout  
  
[22:29:50] : [Updating sources] Full checkout enforced. Reason: ["Delete all  
[22:29:50] : [Updating sources] VCS Root: https://PMonteiro1211790@bitbucket.  
[22:29:50] : [VCS Root: https://PMonteiro1211790@bitbucket.org/pmonte

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

```
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54]i: [/usr/bin/git -c core.askpass=/mnt/agent
[22:31:54] : [Update git mirror (/mnt/agent/system/git/git-BB
[22:31:54] : [Update git mirror (/mnt/agent/system/git/git-BB
[22:31:54] : [VCS Root: https://PMonteiro1211790@bitbucket.org/pmonte
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:54] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:55] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:56] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:56] : [Update checkout directory (/mnt/agent/work/bb41
[22:31:56] : Build preparation done
[22:31:56]W: Step 1/7: Build_Classes (Gradle) (1m:13s)
```

```
[22:31:56] : [Step 1/7] Starting: bash /mnt/agent/work/bb417815b835b033/CA2_P
[22:31:56] : [Step 1/7] in directory: /mnt/agent/work/bb417815b835b033
[22:31:56] : [Step 1/7] Downloading https://services.gradle.org/distributions
[22:31:59] : [Step 1/7] .....10%.....20%.....30%.....
[22:32:00] : [Step 1/7]
[22:32:00] : [Step 1/7] Welcome to Gradle 7.4.1!
[22:32:00] : [Step 1/7]
[22:32:00] : [Step 1/7] Here are the highlights of this release:
[22:32:00] : [Step 1/7] - Aggregated test and JaCoCo reports
[22:32:00] : [Step 1/7] - Marking additional test source directories as test
[22:32:00] : [Step 1/7] - Support for Adoptium JDKs in Java toolchains
[22:32:00] : [Step 1/7]
[22:32:00] : [Step 1/7] For more details see https://docs.gradle.org/7.4.1/re
[22:32:00] : [Step 1/7]
[22:32:00] : [Step 1/7] To honour the JVM settings for this build a single-us
[22:32:02] : [Step 1/7] Daemon will be stopped at the end of the build
[22:32:11] : [Step 1/7]
[22:32:11] : [Step 1/7] > Configure project :
[22:32:11] : [Step 1/7] Starting Gradle in TeamCity build 24
[22:32:30] : [Step 1/7]
[22:32:30] : [Step 1/7] > Task :installNode
[22:32:30] : [Step 1/7] :installNode (2s)
[22:32:32] : [Step 1/7] > Task :installYarnGlobally SKIPPED
[22:32:32] : [Step 1/7] :installYarnGlobally SKIPPED
[22:32:32] : [Step 1/7] > Task :enableYarnBerry SKIPPED
[22:32:32] : [Step 1/7] :enableYarnBerry SKIPPED
[22:32:32] : [Step 1/7] > Task :installYarn SKIPPED
[22:32:32] : [Step 1/7] :installYarn SKIPPED
[22:32:34] : [Step 1/7] > Task :installFrontend
[22:32:34]W: [Step 1/7] :installFrontend (9s)
[22:32:36]W: [:installFrontend] npm WARN deprecated source-map-resolv
[22:32:37]W: [:installFrontend] npm WARN deprecated querystring@0.2.0
[22:32:37]W: [:installFrontend] npm WARN deprecated chokidar@2.1.8: C
[22:32:37]W: [:installFrontend] npm WARN deprecated resolve-url@0.2.1
[22:32:37]W: [:installFrontend] npm WARN deprecated source-map-url@0.
[22:32:37]W: [:installFrontend] npm WARN deprecated urix@0.1.0: Pleas
[22:32:37]W: [:installFrontend] npm WARN deprecated fsevents@1.2.13:
[22:32:43] : [:installFrontend] added 587 packages from 256 contribut
[22:32:43]W: [:installFrontend] npm notice created a lockfile as pack
[22:32:43]W: [:installFrontend] npm WARN optional SKIPPING OPTIONAL D
[22:32:43]W: [:installFrontend] npm WARN notsup SKIPPING OPTIONAL DEP
[22:32:43]W: [:installFrontend] npm WARN optional SKIPPING OPTIONAL D
[22:32:43]W: [:installFrontend] npm WARN notsup SKIPPING OPTIONAL DEP
[22:32:43]W: [:installFrontend]
[22:32:43] : [:installFrontend]
[22:32:43] : [:installFrontend] 25 packages are looking for funding
[22:32:43] : [:installFrontend] run `npm fund` for details
[22:32:43] : [:installFrontend]
[22:32:43] : [:installFrontend] found 1 high severity vulnerability
[22:32:43] : [:installFrontend] run `npm audit fix` to fix them, or
[22:32:43] : [Step 1/7] > Task :cleanFrontend
[22:32:43] : [Step 1/7] :cleanFrontend
```

```
[22:32:43] :           [:cleanFrontend] > spring-data-rest-and-reactjs@0.1.0 cl
[22:32:43] :           [:cleanFrontend] > echo Cleaning frontend
[22:32:43] :           [:cleanFrontend]
[22:32:43] :           [:cleanFrontend] Cleaning frontend
[22:32:43] : [Step 1/7] > Task :deleteWebPackChild UP-TO-DATE
[22:32:43] : [Step 1/7] :deleteWebPackChild
[22:32:43] : [Step 1/7] > Task :clean
[22:32:43] : [Step 1/7] :clean
[22:32:45] : [Step 1/7]
[22:32:45] : [Step 1/7] > Task :assembleFrontend
[22:32:45] : [Step 1/7] :assembleFrontend
[22:32:45] :           [:assembleFrontend] > spring-data-rest-and-reactjs@0.1.0
[22:32:45] :           [:assembleFrontend] > npm run webpack
[22:32:45] :           [:assembleFrontend]
[22:32:45] :           [:assembleFrontend]
[22:32:45] :           [:assembleFrontend] > spring-data-rest-and-reactjs@0.1.0
[22:32:45] :           [:assembleFrontend] > webpack
[22:32:45] :           [:assembleFrontend]
[22:32:46] :           [:assembleFrontend] Hash: d959dd2eb330d1d4f565
[22:32:46] :           [:assembleFrontend] Version: webpack 4.46.0
[22:32:46] :           [:assembleFrontend] Time: 1695ms
[22:32:46] :           [:assembleFrontend] Built at: 06/05/2022 9:32:46 PM
[22:32:46] :           [:assembleFrontend]
[22:32:46] :           [:assembleFrontend]      ./src/main/resources/static/buil
[22:32:46] :           [:assembleFrontend] ./src/main/resources/static/built/bu
[22:32:46] :           [:assembleFrontend] Entrypoint main = ./src/main/resourc
[22:32:46] :           [:assembleFrontend] [0] vertx (ignored) 15 bytes {main}
[22:32:46] :           [:assembleFrontend] [./node_modules/webpack/buildin/amd-
[22:32:46] :           [:assembleFrontend] [./src/main/js/api/uriListConverter.
[22:32:46] :           [:assembleFrontend] [./src/main/js/api/uriTemplateInterc
[22:32:46] :           [:assembleFrontend] [./src/main/js/app.js] 6.06 KiB {mai
[22:32:46] :           [:assembleFrontend] [./src/main/js/client.js] 712 bytes
[22:32:46] :           [:assembleFrontend]      + 56 hidden modules
[22:32:54] : [Step 1/7]
[22:32:54] : [Step 1/7] > Task :compileJava
[22:32:54] : [Step 1/7] :compileJava (10s)
[22:33:04] : [Step 1/7] > Task :processResources
[22:33:04] : [Step 1/7] :processResources
[22:33:04] : [Step 1/7] > Task :classes
[22:33:04] : [Step 1/7] :classes
[22:33:06] : [Step 1/7]
[22:33:06] : [Step 1/7] > Task :bootWarMainClassName
[22:33:06] : [Step 1/7] :bootWarMainClassName
[22:33:07] : [Step 1/7] > Task :bootWar
[22:33:07] : [Step 1/7] :bootWar
[22:33:09] : [Step 1/7]
[22:33:09] : [Step 1/7] > Task :war
[22:33:09] : [Step 1/7] :war
[22:33:09] : [Step 1/7] > Task :assemble
[22:33:09] : [Step 1/7] :assemble
[22:33:09] : [Step 1/7] Deprecated Gradle features were used in this build, m
[22:33:09] : [Step 1/7]
```

```
[22:33:09] : [Step 1/7] You can use '--warning-mode all' to show the individu
[22:33:09] : [Step 1/7]
[22:33:09] : [Step 1/7] See https://docs.gradle.org/7.4.1/userguide/command\_1
[22:33:09] : [Step 1/7]
[22:33:09] : [Step 1/7] BUILD SUCCESSFUL in 1m 12s
[22:33:09] : [Step 1/7] 11 actionable tasks: 10 executed, 1 up-to-date
[22:33:09] : [Step 1/7] Process exited with code 0
[22:33:09] : Step 2/7: Build_Test_Classes (Gradle) (17s)
[22:33:09] : [Step 2/7] Starting: bash /mnt/agent/work/bb417815b835b033/CA2_P
[22:33:09] : [Step 2/7] in directory: /mnt/agent/work/bb417815b835b033
[22:33:10] : [Step 2/7] To honour the JVM settings for this build a single-us
[22:33:12] : [Step 2/7] Daemon will be stopped at the end of the build
[22:33:17] : [Step 2/7]
[22:33:17] : [Step 2/7] > Configure project :
[22:33:17] : [Step 2/7] Starting Gradle in TeamCity build 24
[22:33:19] : [Step 2/7]
[22:33:19] : [Step 2/7] > Task :compileJava UP-TO-DATE
[22:33:19] : [Step 2/7] :compileJava UP-TO-DATE
[22:33:19] : [Step 2/7] > Task :processResources UP-TO-DATE
[22:33:19] : [Step 2/7] :processResources UP-TO-DATE
[22:33:19] : [Step 2/7] > Task :classes UP-TO-DATE
[22:33:19] : [Step 2/7] :classes UP-TO-DATE
[22:33:22] : [Step 2/7]
[22:33:22] : [Step 2/7] > Task :compileTestJava
[22:33:22] : [Step 2/7] :compileTestJava (3s)
[22:33:26] : [Step 2/7] > Task :processTestResources NO-SOURCE
[22:33:26] : [Step 2/7] :processTestResources NO-SOURCE
[22:33:26] : [Step 2/7] > Task :testClasses
[22:33:26] : [Step 2/7] :testClasses
[22:33:26] : [Step 2/7] Deprecated Gradle features were used in this build, m
[22:33:26] : [Step 2/7]
[22:33:26] : [Step 2/7] You can use '--warning-mode all' to show the individu
[22:33:26] : [Step 2/7]
[22:33:26] : [Step 2/7] See https://docs.gradle.org/7.4.1/userguide/command\_1
[22:33:26] : [Step 2/7]
[22:33:26] : [Step 2/7] BUILD SUCCESSFUL in 16s
[22:33:26] : [Step 2/7] 3 actionable tasks: 1 executed, 2 up-to-date
[22:33:26] : [Step 2/7] Process exited with code 0
[22:33:27]W: Step 3/7: Check_Build (Gradle) (16s)
[22:33:27] : [Step 3/7] Starting: bash /mnt/agent/work/bb417815b835b033/CA2_P
[22:33:27] : [Step 3/7] in directory: /mnt/agent/work/bb417815b835b033
[22:33:28] : [Step 3/7] To honour the JVM settings for this build a single-us
[22:33:29] : [Step 3/7] Daemon will be stopped at the end of the build
[22:33:34] : [Step 3/7]
[22:33:34] : [Step 3/7] > Configure project :
[22:33:34] : [Step 3/7] Starting Gradle in TeamCity build 24
[22:33:35] : [Step 3/7]
[22:33:35] : [Step 3/7] > Task :installNode UP-TO-DATE
[22:33:35] : [Step 3/7] :installNode UP-TO-DATE
[22:33:35] : [Step 3/7] > Task :installYarnGlobally SKIPPED
[22:33:35] : [Step 3/7] :installYarnGlobally SKIPPED
[22:33:35] : [Step 3/7] > Task :enableYarnBerry SKIPPED
```

```
[22:33:35] : [Step 3/7] :enableYarnBerry SKIPPED
[22:33:35] : [Step 3/7] > Task :installYarn SKIPPED
[22:33:35] : [Step 3/7] :installYarn SKIPPED
[22:33:37] : [Step 3/7]
[22:33:37] : [Step 3/7] > Task :installFrontend
[22:33:37]W: [Step 3/7] :installFrontend (1s)
[22:33:38] : [:installFrontend] audited 589 packages in 2.51s
[22:33:38]W: [:installFrontend] npm WARN optional SKIPPING OPTIONAL D
[22:33:38]W: [:installFrontend] npm WARN notsup SKIPPING OPTIONAL DEP
[22:33:38]W: [:installFrontend] npm WARN optional SKIPPING OPTIONAL D
[22:33:38]W: [:installFrontend] npm WARN notsup SKIPPING OPTIONAL DEP
[22:33:38]W: [:installFrontend]
[22:33:38] : [:installFrontend]
[22:33:38] : [:installFrontend] 25 packages are looking for funding
[22:33:38] : [:installFrontend] run `npm fund` for details
[22:33:38] : [:installFrontend]
[22:33:38] : [:installFrontend] found 1 high severity vulnerability
[22:33:38] : [:installFrontend] run `npm audit fix` to fix them, or
[22:33:38] : [Step 3/7] > Task :checkFrontend
[22:33:38] : [Step 3/7] :checkFrontend
[22:33:38] : [:checkFrontend] > spring-data-rest-and-reactjs@0.1.0 ch
[22:33:38] : [:checkFrontend] > echo Checking frontend
[22:33:38] : [:checkFrontend]
[22:33:38] : [:checkFrontend] Checking frontend
[22:33:40] : [Step 3/7]
[22:33:40] : [Step 3/7] > Task :compileJava UP-TO-DATE
[22:33:40] : [Step 3/7] :compileJava UP-TO-DATE
[22:33:40] : [Step 3/7] > Task :processResources UP-TO-DATE
[22:33:40] : [Step 3/7] :processResources UP-TO-DATE
[22:33:40] : [Step 3/7] > Task :classes UP-TO-DATE
[22:33:40] : [Step 3/7] :classes UP-TO-DATE
[22:33:40] : [Step 3/7]
[22:33:40] : [Step 3/7] > Task :compileTestJava UP-TO-DATE
[22:33:40] : [Step 3/7] :compileTestJava UP-TO-DATE
[22:33:40] : [Step 3/7] > Task :processTestResources NO-SOURCE
[22:33:40] : [Step 3/7] :processTestResources NO-SOURCE
[22:33:40] : [Step 3/7] > Task :testClasses UP-TO-DATE
[22:33:40] : [Step 3/7] :testClasses UP-TO-DATE
[22:33:42] : [Step 3/7] > Task :test
[22:33:42] : [Step 3/7] :test
[22:33:43] : [Step 3/7] com.gregturnquist.payroll.EmployeeTest
[22:33:43] : [com.gregturnquist.payroll.EmployeeTest] com.gregturnq
[22:33:43] : [com.gregturnquist.payroll.EmployeeTest] com.gregturnq
[22:33:43] : [com.gregturnquist.payroll.EmployeeTest] com.gregturnq
[22:33:43] : [Step 3/7] > Task :check
[22:33:43] : [Step 3/7] :check
[22:33:43] : [Step 3/7] Deprecated Gradle features were used in this build, m
[22:33:43] : [Step 3/7]
[22:33:43] : [Step 3/7] You can use '--warning-mode all' to show the individu
[22:33:43] : [Step 3/7]
[22:33:43] : [Step 3/7] See https://docs.gradle.org/7.4.1/userguide/command_1
[22:33:43] : [Step 3/7]
```



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[22:33:43] : [Step 3/7] BUILD SUCCESSFUL in 16s
[22:33:43] : [Step 3/7] 7 actionable tasks: 3 executed, 4 up-to-date
[22:33:43] : [Step 3/7] Process exited with code 0
[22:33:43] : Step 4/7: Run_Tests (Gradle) (11s)
[22:33:44] : [Step 4/7] Starting: bash /mnt/agent/work/bb417815b835b033/CA2_P
[22:33:44] : [Step 4/7] in directory: /mnt/agent/work/bb417815b835b033
[22:33:45] : [Step 4/7] To honour the JVM settings for this build a single-us
[22:33:47] : [Step 4/7] Daemon will be stopped at the end of the build
[22:33:51] : [Step 4/7]
[22:33:51] : [Step 4/7] > Configure project :
[22:33:51] : [Step 4/7] Starting Gradle in TeamCity build 24
[22:33:54] : [Step 4/7]
[22:33:54] : [Step 4/7] > Task :compileJava UP-TO-DATE
[22:33:54] : [Step 4/7] :compileJava UP-TO-DATE
[22:33:54] : [Step 4/7] > Task :processResources UP-TO-DATE
[22:33:54] : [Step 4/7] :processResources UP-TO-DATE
[22:33:54] : [Step 4/7] > Task :classes UP-TO-DATE
[22:33:54] : [Step 4/7] :classes UP-TO-DATE
[22:33:54] : [Step 4/7] > Task :compileTestJava UP-TO-DATE
[22:33:54] : [Step 4/7] :compileTestJava UP-TO-DATE
[22:33:54] : [Step 4/7] > Task :processTestResources NO-SOURCE
[22:33:54] : [Step 4/7] :processTestResources NO-SOURCE
[22:33:54] : [Step 4/7] > Task :testClasses UP-TO-DATE
[22:33:54] : [Step 4/7] :testClasses UP-TO-DATE
[22:33:54] : [Step 4/7] > Task :test UP-TO-DATE
[22:33:54] : [Step 4/7] :test UP-TO-DATE
[22:33:54] : [Step 4/7] Deprecated Gradle features were used in this build, m
[22:33:54] : [Step 4/7]
[22:33:54] : [Step 4/7] You can use '--warning-mode all' to show the individu
[22:33:54] : [Step 4/7]
[22:33:54] : [Step 4/7] See https://docs.gradle.org/7.4.1/userguide/command\_l
[22:33:54] : [Step 4/7]
[22:33:54] : [Step 4/7] BUILD SUCCESSFUL in 10s
[22:33:54] : [Step 4/7] 4 actionable tasks: 4 up-to-date
[22:33:55] : [Step 4/7] Process exited with code 0
[22:33:55] : Step 5/7: Generate JavaDoc (Gradle) (13s)
[22:33:55] : [Step 5/7] Starting: bash /mnt/agent/work/bb417815b835b033/CA2_P
[22:33:55] : [Step 5/7] in directory: /mnt/agent/work/bb417815b835b033
[22:33:56] : [Step 5/7] To honour the JVM settings for this build a single-us
[22:33:58] : [Step 5/7] Daemon will be stopped at the end of the build
[22:34:03] : [Step 5/7]
[22:34:03] : [Step 5/7] > Configure project :
[22:34:03] : [Step 5/7] Starting Gradle in TeamCity build 24
[22:34:05] : [Step 5/7]
[22:34:05] : [Step 5/7] > Task :compileJava UP-TO-DATE
[22:34:05] : [Step 5/7] :compileJava UP-TO-DATE
[22:34:05] : [Step 5/7] > Task :processResources UP-TO-DATE
[22:34:05] : [Step 5/7] :processResources UP-TO-DATE
[22:34:05] : [Step 5/7] > Task :classes UP-TO-DATE
[22:34:05] : [Step 5/7] :classes UP-TO-DATE
[22:34:07] : [Step 5/7]
[22:34:07] : [Step 5/7] > Task :javadoc
```

```
[22:34:07] : [Step 5/7] :javadoc
[22:34:08] : [Step 5/7] Deprecated Gradle features were used in this build, m
[22:34:08] : [Step 5/7]
[22:34:08] : [Step 5/7] You can use '--warning-mode all' to show the individu
[22:34:08] : [Step 5/7]
[22:34:08] : [Step 5/7] See https://docs.gradle.org/7.4.1/userguide/command\_1
[22:34:08] : [Step 5/7]
[22:34:08] : [Step 5/7] BUILD SUCCESSFUL in 12s
[22:34:08] : [Step 5/7] 3 actionable tasks: 1 executed, 2 up-to-date
[22:34:08] : [Step 5/7] Process exited with code 0
[22:34:08] : Step 6/7: Docker Build Container Image (Docker) (30s)
[22:34:08] : [Step 6/7] Starting: docker build -t pmonteiro1211790/devops-21-
[22:34:08] : [Step 6/7] in directory: /mnt/agent/work/bb417815b835b033/CA2_Pa
[22:34:11] : [Step 6/7] Sending build context to Docker daemon 231MB
[22:34:11] : [Step 6/7]
[22:34:11] : [Step 6/7] Step 1/7 : FROM tomcat:8-jdk8-temurin
[22:34:12] : [Step 6/7] 8-jdk8-temurin: Pulling from library/tomcat
[22:34:12] : [Step 6/7] d5fd17ec1767: Pulling fs layer
[22:34:12] : [Step 6/7] 8e94d254f3c4: Pulling fs layer
[22:34:12] : [Step 6/7] 5bef23661879: Pulling fs layer
[22:34:12] : [Step 6/7] 0ef342c79cf4: Pulling fs layer
[22:34:12] : [Step 6/7] 978c45a078b3: Pulling fs layer
[22:34:12] : [Step 6/7] e885c0f68f66: Pulling fs layer
[22:34:12] : [Step 6/7] ec3398eeee00b: Pulling fs layer
[22:34:12] : [Step 6/7] 0ef342c79cf4: Waiting
[22:34:12] : [Step 6/7] 978c45a078b3: Waiting
[22:34:12] : [Step 6/7] e885c0f68f66: Waiting
[22:34:12] : [Step 6/7] ec3398eeee00b: Waiting
[22:34:13] : [Step 6/7] 8e94d254f3c4: Verifying Checksum
[22:34:13] : [Step 6/7] 8e94d254f3c4: Download complete
[22:34:13] : [Step 6/7] 0ef342c79cf4: Verifying Checksum
[22:34:13] : [Step 6/7] 0ef342c79cf4: Download complete
[22:34:13] : [Step 6/7] 978c45a078b3: Verifying Checksum
[22:34:13] : [Step 6/7] 978c45a078b3: Download complete
[22:34:13] : [Step 6/7] d5fd17ec1767: Verifying Checksum
[22:34:13] : [Step 6/7] d5fd17ec1767: Download complete
[22:34:13] : [Step 6/7] ec3398eeee00b: Verifying Checksum
[22:34:13] : [Step 6/7] ec3398eeee00b: Download complete
[22:34:14] : [Step 6/7] e885c0f68f66: Verifying Checksum
[22:34:14] : [Step 6/7] e885c0f68f66: Download complete
[22:34:15] : [Step 6/7] d5fd17ec1767: Pull complete
[22:34:15] : [Step 6/7] 5bef23661879: Verifying Checksum
[22:34:15] : [Step 6/7] 5bef23661879: Download complete
[22:34:16] : [Step 6/7] 8e94d254f3c4: Pull complete
[22:34:18] : [Step 6/7] 5bef23661879: Pull complete
[22:34:18] : [Step 6/7] 0ef342c79cf4: Pull complete
[22:34:18] : [Step 6/7] 978c45a078b3: Pull complete
[22:34:19] : [Step 6/7] e885c0f68f66: Pull complete
[22:34:20] : [Step 6/7] ec3398eeee00b: Pull complete
[22:34:20] : [Step 6/7] Digest: sha256:804e018f68b6a62ee567a313b67b2f71beece2
[22:34:20] : [Step 6/7] Status: Downloaded newer image for tomcat:8-jdk8-temu
[22:34:20] : [Step 6/7] ---> 993c5caeff2c
```



```
[22:34:20] : [Step 6/7] Step 2/7 : RUN pwd
[22:34:21] : [Step 6/7] ---> Running in 963f11b5a435
[22:34:21]i: [Step 6/7] Docker event: {"status":"pull","id":"tomcat:8-jdk8-te
[22:34:21]i: [Step 6/7] Docker event: {"status":"create","id":"963f11b5a4350e
[22:34:21]i: [Step 6/7] Docker event: {"status":"attach","id":"963f11b5a4350e
[22:34:22] : [Step 6/7] /usr/local/tomcat
[22:34:22]i: [Step 6/7] Docker event: {"status":"start","id":"963f11b5a4350e8
[22:34:22]i: [Step 6/7] Docker event: {"status":"die","id":"963f11b5a4350e8e2
[22:34:22] : [Step 6/7] Removing intermediate container 963f11b5a435
[22:34:22] : [Step 6/7] ---> 091ff294861e
[22:34:22] : [Step 6/7] Step 3/7 : RUN apt-get update
[22:34:22]i: [Step 6/7] Docker event: {"status":"destroy","id":"963f11b5a4350
[22:34:22] : [Step 6/7] ---> Running in 94bbe4bcefa8
[22:34:22]i: [Step 6/7] Docker event: {"status":"create","id":"94bbe4bcefa867
[22:34:22]i: [Step 6/7] Docker event: {"status":"attach","id":"94bbe4bcefa867
[22:34:23]i: [Step 6/7] Docker event: {"status":"start","id":"94bbe4bcefa8674
[22:34:23] : [Step 6/7] Get:1 http://archive.ubuntu.com/ubuntu focal InReleas
[22:34:23] : [Step 6/7] Get:2 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:23] : [Step 6/7] Get:3 http://archive.ubuntu.com/ubuntu focal-backport
[22:34:23] : [Step 6/7] Get:4 http://security.ubuntu.com/ubuntu focal-securit
[22:34:23] : [Step 6/7] Get:5 http://archive.ubuntu.com/ubuntu focal/universe
[22:34:23] : [Step 6/7] Get:6 http://archive.ubuntu.com/ubuntu focal/main amd
[22:34:23] : [Step 6/7] Get:7 http://archive.ubuntu.com/ubuntu focal/restrict
[22:34:23] : [Step 6/7] Get:8 http://archive.ubuntu.com/ubuntu focal/multiver
[22:34:23] : [Step 6/7] Get:9 http://archive.ubuntu.com/ubuntu focal-updates/
[22:34:23] : [Step 6/7] Get:10 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:23] : [Step 6/7] Get:11 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:23] : [Step 6/7] Get:12 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:23] : [Step 6/7] Get:13 http://archive.ubuntu.com/ubuntu focal-backpor
[22:34:23] : [Step 6/7] Get:14 http://archive.ubuntu.com/ubuntu focal-backpor
[22:34:23] : [Step 6/7] Get:15 http://security.ubuntu.com/ubuntu focal-securi
[22:34:24] : [Step 6/7] Get:16 http://security.ubuntu.com/ubuntu focal-securi
[22:34:24] : [Step 6/7] Get:17 http://security.ubuntu.com/ubuntu focal-securi
[22:34:24] : [Step 6/7] Get:18 http://security.ubuntu.com/ubuntu focal-securi
[22:34:24] : [Step 6/7] Fetched 22.3 MB in 2s (14.5 MB/s)
[22:34:25] : [Step 6/7] Reading package lists...
[22:34:25]i: [Step 6/7] Docker event: {"status":"die","id":"94bbe4bcefa867463
[22:34:25] : [Step 6/7] Removing intermediate container 94bbe4bcefa8
[22:34:25] : [Step 6/7] ---> 215969f7fe59
[22:34:25] : [Step 6/7] Step 4/7 : RUN apt-get install openjdk-8-jdk-headless
[22:34:25]i: [Step 6/7] Docker event: {"status":"destroy","id":"94bbe4bcefa86
[22:34:25] : [Step 6/7] ---> Running in 274d03778b34
[22:34:25]i: [Step 6/7] Docker event: {"status":"create","id":"274d03778b3400
[22:34:25]i: [Step 6/7] Docker event: {"status":"attach","id":"274d03778b3400
[22:34:26]i: [Step 6/7] Docker event: {"status":"start","id":"274d03778b3400d
[22:34:26] : [Step 6/7] Reading package lists...
[22:34:27] : [Step 6/7] Building dependency tree...
[22:34:27] : [Step 6/7] Reading state information...
[22:34:27] : [Step 6/7] The following additional packages will be installed:
[22:34:27] : [Step 6/7] ca-certificates-java dbus java-common libapparmor1
[22:34:27] : [Step 6/7] libavahi-common-data libavahi-common3 libbsd0 libcu
[22:34:27] : [Step 6/7] libjpeg-turbo8 libjpeg8 liblcms2-2 libnspr4 libnss3
```

```
[22:34:27] : [Step 6/7] libx11-data libxau6 libxcb1 libxdmcp6 libxext6 libx
[22:34:27] : [Step 6/7] openjdk-8-jre-headless x11-common
[22:34:27] : [Step 6/7] Suggested packages:
[22:34:27] : [Step 6/7] default-dbus-session-bus | dbus-session-bus default
[22:34:27] : [Step 6/7] liblcms2-utils pcsd openjdk-8-demo openjdk-8-sourc
[22:34:27] : [Step 6/7] fonts-dejavu-extra fonts-ipafont-gothic fonts-ipafo
[22:34:27] : [Step 6/7] fonts-wqy-microhei fonts-wqy-zenhei fonts-indic
[22:34:27] : [Step 6/7] The following NEW packages will be installed:
[22:34:27] : [Step 6/7] ca-certificates-java dbus java-common libapparmor1
[22:34:27] : [Step 6/7] libavahi-common-data libavahi-common3 libbsd0 libcu
[22:34:27] : [Step 6/7] libjpeg-turbo8 libjpeg8 liblcms2-2 libnspr4 libnss3
[22:34:27] : [Step 6/7] libx11-data libxau6 libxcb1 libxdmcp6 libxext6 libx
[22:34:27] : [Step 6/7] openjdk-8-jdk-headless openjdk-8-jre-headless x11-c
[22:34:27] : [Step 6/7] 0 upgraded, 28 newly installed, 0 to remove and 15 no
[22:34:27] : [Step 6/7] Need to get 39.7 MB of archives.
[22:34:27] : [Step 6/7] After this operation, 156 MB of additional disk space
[22:34:27] : [Step 6/7] Get:1 http://archive.ubuntu.com/ubuntu focal-updates/
[22:34:27] : [Step 6/7] Get:2 http://archive.ubuntu.com/ubuntu focal-updates/
[22:34:27] : [Step 6/7] Get:3 http://archive.ubuntu.com/ubuntu focal-updates/
[22:34:27] : [Step 6/7] Get:4 http://archive.ubuntu.com/ubuntu focal/main amd
[22:34:27] : [Step 6/7] Get:5 http://archive.ubuntu.com/ubuntu focal/main amd
[22:34:27] : [Step 6/7] Get:6 http://archive.ubuntu.com/ubuntu focal/main amd
[22:34:27] : [Step 6/7] Get:7 http://archive.ubuntu.com/ubuntu focal/main amd
[22:34:27] : [Step 6/7] Get:8 http://archive.ubuntu.com/ubuntu focal-updates/
[22:34:27] : [Step 6/7] Get:9 http://archive.ubuntu.com/ubuntu focal-updates/
[22:34:27] : [Step 6/7] Get:10 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:11 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:12 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:13 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:14 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:15 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:16 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:17 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:18 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:19 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:20 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:21 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:22 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:23 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:24 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:25 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:26 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] Get:27 http://archive.ubuntu.com/ubuntu focal/main am
[22:34:27] : [Step 6/7] Get:28 http://archive.ubuntu.com/ubuntu focal-updates
[22:34:27] : [Step 6/7] [91mdebconf: delaying package configuration, since a
[22:34:27] : [Step 6/7] [0mFetched 39.7 MB in 1s (76.6 MB/s)
[22:34:27] : [Step 6/7] Selecting previously unselected package libapparmor1:
[22:34:27] : [Step 6/7] (Reading database ...
[22:34:27] : [Step 6/7] (Reading database ... 5%
[22:34:27] : [Step 6/7] (Reading database ... 10%
[22:34:27] : [Step 6/7] (Reading database ... 15%
[22:34:27] : [Step 6/7] (Reading database ... 20%
```

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[22:34:27] : [Step 6/7] (Reading database ... 25%
[22:34:27] : [Step 6/7] (Reading database ... 30%
[22:34:27] : [Step 6/7] (Reading database ... 35%
[22:34:27] : [Step 6/7] (Reading database ... 40%
[22:34:27] : [Step 6/7] (Reading database ... 45%
[22:34:27] : [Step 6/7] (Reading database ... 50%
[22:34:27] : [Step 6/7] (Reading database ... 55%
[22:34:27] : [Step 6/7] (Reading database ... 60%
[22:34:27] : [Step 6/7] (Reading database ... 65%
[22:34:27] : [Step 6/7] (Reading database ... 70%
[22:34:27] : [Step 6/7] (Reading database ... 75%
[22:34:27] : [Step 6/7] (Reading database ... 80%
[22:34:27] : [Step 6/7] (Reading database ... 85%
[22:34:27] : [Step 6/7] (Reading database ... 90%
[22:34:27] : [Step 6/7] (Reading database ... 95%
[22:34:27] : [Step 6/7] (Reading database ... 100%
[22:34:27] : [Step 6/7] (Reading database ... 7350 files and directories curr
[22:34:27] : [Step 6/7] Preparing to unpack .../00-libapparmor1_2.13.3-7ubuntu
[22:34:27] : [Step 6/7] Unpacking libapparmor1:amd64 (2.13.3-7ubuntu5.1) ...
[22:34:27] : [Step 6/7] Selecting previously unselected package libdbus-1-3:amd64
[22:34:27] : [Step 6/7] Preparing to unpack .../01-libdbus-1-3_1.12.16-2ubuntu2
[22:34:27] : [Step 6/7] Unpacking libdbus-1-3:amd64 (1.12.16-2ubuntu2.2) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package dbus.
[22:34:28] : [Step 6/7] Preparing to unpack .../02-dbus_1.12.16-2ubuntu2.2_amd64
[22:34:28] : [Step 6/7] Unpacking dbus (1.12.16-2ubuntu2.2) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libbsd0:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../03-libbsd0_0.10.0-1_amd64.deb
[22:34:28] : [Step 6/7] Unpacking libbsd0:amd64 (0.10.0-1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libxau6:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../04-libxau6_1%3a1.0.9-0ubuntu1
[22:34:28] : [Step 6/7] Unpacking libxau6:amd64 (1:1.0.9-0ubuntu1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libxdmcp6:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../05-libxdmcp6_1%3a1.1.3-0ubuntu1
[22:34:28] : [Step 6/7] Unpacking libxdmcp6:amd64 (1:1.1.3-0ubuntu1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libxcb1:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../06-libxcb1_1.14-2_amd64.deb
[22:34:28] : [Step 6/7] Unpacking libxcb1:amd64 (1.14-2) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libx11-data.
[22:34:28] : [Step 6/7] Preparing to unpack .../07-libx11-data_2%3a1.6.9-2ubu
[22:34:28] : [Step 6/7] Unpacking libx11-data (2:1.6.9-2ubuntu1.2) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libx11-6:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../08-libx11-6_2%3a1.6.9-2ubun
[22:34:28] : [Step 6/7] Unpacking libx11-6:amd64 (2:1.6.9-2ubuntu1.2) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libxext6:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../09-libxext6_2%3a1.3.4-0ubun
[22:34:28] : [Step 6/7] Unpacking libxext6:amd64 (2:1.3.4-0ubuntu1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package java-common.
[22:34:28] : [Step 6/7] Preparing to unpack .../10-java-common_0.72_all.deb
[22:34:28] : [Step 6/7] Unpacking java-common (0.72) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libavahi-comm
[22:34:28] : [Step 6/7] Preparing to unpack .../11-libavahi-common-data_0.7-4
[22:34:28] : [Step 6/7] Unpacking libavahi-common-data:amd64 (0.7-4ubuntu7.1)
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[22:34:28] : [Step 6/7] Selecting previously unselected package libavahi-comm
[22:34:28] : [Step 6/7] Preparing to unpack .../12-libavahi-common3_0.7-4ubun
[22:34:28] : [Step 6/7] Unpacking libavahi-common3:amd64 (0.7-4ubuntu7.1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libavahi-clie
[22:34:28] : [Step 6/7] Preparing to unpack .../13-libavahi-client3_0.7-4ubun
[22:34:28] : [Step 6/7] Unpacking libavahi-client3:amd64 (0.7-4ubuntu7.1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libcups2:amd6
[22:34:28] : [Step 6/7] Preparing to unpack .../14-libcups2_2.3.1-9ubuntu1.2_
[22:34:28] : [Step 6/7] Unpacking libcups2:amd64 (2.3.1-9ubuntu1.2) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package liblcms2-2:am
[22:34:28] : [Step 6/7] Preparing to unpack .../15-liblcms2-2_2.9-4_amd64.deb
[22:34:28] : [Step 6/7] Unpacking liblcms2-2:amd64 (2.9-4) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libjpeg-turbo
[22:34:28] : [Step 6/7] Preparing to unpack .../16-libjpeg-turbo8_2.0.3-0ubun
[22:34:28] : [Step 6/7] Unpacking libjpeg-turbo8:amd64 (2.0.3-0ubuntu1.20.04.
[22:34:28] : [Step 6/7] Selecting previously unselected package libjpeg8:amd6
[22:34:28] : [Step 6/7] Preparing to unpack .../17-libjpeg8_8c-2ubuntu8_amd64
[22:34:28] : [Step 6/7] Unpacking libjpeg8:amd64 (8c-2ubuntu8) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libnspr4:amd6
[22:34:28] : [Step 6/7] Preparing to unpack .../18-libnspr4_2%3a4.25-1_amd64.
[22:34:28] : [Step 6/7] Unpacking libnspr4:amd64 (2:4.25-1) ...
[22:34:28] : [Step 6/7] Selecting previously unselected package libnss3:amd64
[22:34:28] : [Step 6/7] Preparing to unpack .../19-libnss3_2%3a3.49.1-1ubuntu
[22:34:28] : [Step 6/7] Unpacking libnss3:amd64 (2:3.49.1-1ubuntu1.7) ...
[22:34:29] : [Step 6/7] Selecting previously unselected package libpcsc-lite1:
[22:34:29] : [Step 6/7] Preparing to unpack .../20-libpcsc-lite1_1.8.26-3_amd6
[22:34:29] : [Step 6/7] Unpacking libpcsc-lite1:amd64 (1.8.26-3) ...
[22:34:29] : [Step 6/7] Selecting previously unselected package libxi6:amd64.
[22:34:29] : [Step 6/7] Preparing to unpack .../21-libxi6_2%3a1.7.10-0ubuntu1
[22:34:29] : [Step 6/7] Unpacking libxi6:amd64 (2:1.7.10-0ubuntu1) ...
[22:34:29] : [Step 6/7] Selecting previously unselected package libxrender1:a
[22:34:29] : [Step 6/7] Preparing to unpack .../22-libxrender1_1%3a0.9.10-1_a
[22:34:29] : [Step 6/7] Unpacking libxrender1:amd64 (1:0.9.10-1) ...
[22:34:29] : [Step 6/7] Selecting previously unselected package x11-common.
[22:34:29] : [Step 6/7] Preparing to unpack .../23-x11-common_1%3a7.7+19ubunt
[22:34:29] : [Step 6/7] dpkg-query: no packages found matching nux-tools
[22:34:29] : [Step 6/7] Unpacking x11-common (1:7.7+19ubuntu14) ...
[22:34:29] : [Step 6/7] Selecting previously unselected package libxtst6:amd6
[22:34:29] : [Step 6/7] Preparing to unpack .../24-libxtst6_2%3a1.2.3-1_amd64
[22:34:29] : [Step 6/7] Unpacking libxtst6:amd64 (2:1.2.3-1) ...
[22:34:29] : [Step 6/7] Selecting previously unselected package openjdk-8-jre
[22:34:29] : [Step 6/7] Preparing to unpack .../25-openjdk-8-jre-headless_8u3
[22:34:29] : [Step 6/7] Unpacking openjdk-8-jre-headless:amd64 (8u312-b07-0ub
[22:34:31] : [Step 6/7] Selecting previously unselected package ca-certificat
[22:34:31] : [Step 6/7] Preparing to unpack .../26-ca-certificates-java_20190
[22:34:31] : [Step 6/7] Unpacking ca-certificates-java (20190405ubuntu1) ...
[22:34:31] : [Step 6/7] Selecting previously unselected package openjdk-8-jdk
[22:34:31] : [Step 6/7] Preparing to unpack .../27-openjdk-8-jdk-headless_8u3
[22:34:31] : [Step 6/7] Unpacking openjdk-8-jdk-headless:amd64 (8u312-b07-0ub
[22:34:32] : [Step 6/7] Setting up liblcms2-2:amd64 (2.9-4) ...
[22:34:32] : [Step 6/7] Setting up libxau6:amd64 (1:1.0.9-0ubuntu1) ...
[22:34:32] : [Step 6/7] Setting up libapparmor1:amd64 (2.13.3-7ubuntu5.1) ...
```



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[22:34:32] : [Step 6/7] Setting up java-common (0.72) ...
[22:34:32] : [Step 6/7] Setting up x11-common (1:7.7+19ubuntu14) ...
[22:34:32] : [Step 6/7] debconf: unable to initialize frontend: Dialog
[22:34:32] : [Step 6/7] debconf: (TERM is not set, so the dialog frontend is
[22:34:32] : [Step 6/7] debconf: falling back to frontend: Readline
[22:34:32] : [Step 6/7] debconf: unable to initialize frontend: Readline
[22:34:32] : [Step 6/7] debconf: (Can't locate Term/ReadLine.pm in @INC (you
[22:34:32] : [Step 6/7] debconf: falling back to frontend: Teletype
[22:34:32] : [Step 6/7] update-rc.d: warning: start and stop actions are no 1
[22:34:32] : [Step 6/7] invoke-rc.d: could not determine current runlevel
[22:34:32] : [Step 6/7] invoke-rc.d: policy-rc.d denied execution of start.
[22:34:32] : [Step 6/7] Setting up libx11-data (2:1.6.9-2ubuntu1.2) ...
[22:34:32] : [Step 6/7] Setting up libnspr4:amd64 (2:4.25-1) ...
[22:34:32] : [Step 6/7] Setting up libavahi-common-data:amd64 (0.7-4ubuntu7.1
[22:34:32] : [Step 6/7] Setting up libdbus-1-3:amd64 (1.12.16-2ubuntu2.2) ...
[22:34:32] : [Step 6/7] Setting up dbus (1.12.16-2ubuntu2.2) ...
[22:34:32] : [Step 6/7] Setting up libpcsc-lite1:amd64 (1.8.26-3) ...
[22:34:32] : [Step 6/7] Setting up libjpeg-turbo8:amd64 (2.0.3-0ubuntu1.20.04
[22:34:32] : [Step 6/7] Setting up libbsd0:amd64 (0.10.0-1) ...
[22:34:32] : [Step 6/7] Setting up libjpeg8:amd64 (8c-2ubuntu8) ...
[22:34:32] : [Step 6/7] Setting up libxdmcp6:amd64 (1:1.1.3-0ubuntu1) ...
[22:34:32] : [Step 6/7] Setting up libxcb1:amd64 (1.14-2) ...
[22:34:32] : [Step 6/7] Setting up libavahi-common3:amd64 (0.7-4ubuntu7.1) ..
[22:34:32] : [Step 6/7] Setting up libnss3:amd64 (2:3.49.1-1ubuntu1.7) ...
[22:34:32] : [Step 6/7] Setting up libx11-6:amd64 (2:1.6.9-2ubuntu1.2) ...
[22:34:32] : [Step 6/7] Setting up libavahi-client3:amd64 (0.7-4ubuntu7.1) ..
[22:34:32] : [Step 6/7] Setting up libxrender1:amd64 (1:0.9.10-1) ...
[22:34:32] : [Step 6/7] Setting up libxext6:amd64 (2:1.3.4-0ubuntu1) ...
[22:34:32] : [Step 6/7] Setting up libcups2:amd64 (2.3.1-9ubuntu1.2) ...
[22:34:32] : [Step 6/7] Setting up libxi6:amd64 (2:1.7.10-0ubuntu1) ...
[22:34:32] : [Step 6/7] Setting up libxtst6:amd64 (2:1.2.3-1) ...
[22:34:32] : [Step 6/7] Setting up ca-certificates-java (20190405ubuntu1) ...
[22:34:32] : [Step 6/7] head: cannot open '/etc/ssl/certs/java/cacerts' for r
[22:34:33] : [Step 6/7] Adding debian:OISTE_WiSeKey_Global_Root_GB_CA.pem
[22:34:33] : [Step 6/7] Adding debian:SZAFIR_ROOT_CA2.pem
[22:34:33] : [Step 6/7] Adding debian:DigiCert_Assured_ID_Root_G3.pem
[22:34:33] : [Step 6/7] Adding debian:D-TRUST_Root_Class_3_CA_2_2009.pem
[22:34:33] : [Step 6/7] Adding debian:emSign_Root_CA_-_G1.pem
[22:34:33] : [Step 6/7] Adding debian:Certigna_Root_CA.pem
[22:34:33] : [Step 6/7] Adding debian:Hellenic_Academic_and_Research_Institut
[22:34:33] : [Step 6/7] Adding debian:GlobalSign_ECC_Root_CA_-_R4.pem
[22:34:33] : [Step 6/7] Adding debian:Sonera_Class_2_Root_CA.pem
[22:34:33] : [Step 6/7] Adding debian:QuoVadis_Root_CA.pem
[22:34:33] : [Step 6/7] Adding debian:QuoVadis_Root_CA_3_G3.pem
[22:34:33] : [Step 6/7] Adding debian:DigiCert_Global_Root_G3.pem
[22:34:33] : [Step 6/7] Adding debian:E-Tugra_Certification_Authority.pem
[22:34:33] : [Step 6/7] Adding debian:GlobalSign_Root_CA_-_R3.pem
[22:34:33] : [Step 6/7] Adding debian:EC-ACC.pem
[22:34:33] : [Step 6/7] Adding debian:TUBITAK_Kamu_SM_SSL_Kok_Sertifikasi_-_S
[22:34:33] : [Step 6/7] Adding debian:TeliaSonera_Root_CA_v1.pem
[22:34:33] : [Step 6/7] Adding debian:emSign_ECC_Root_CA_-_C3.pem
[22:34:33] : [Step 6/7] Adding debian:SSL.com_EV_Root_Certification_Authority
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[22:34:33] : [Step 6/7] Adding debian:OISTE\_WISKey\_Global\_Root\_GC\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Amazon\_Root\_CA\_1.pem  
[22:34:33] : [Step 6/7] Adding debian:emSign\_ECC\_Root\_CA\_-\_G3.pem  
[22:34:33] : [Step 6/7] Adding debian:T-TeleSec\_GlobalRoot\_Class\_2.pem  
[22:34:33] : [Step 6/7] Adding debian:CFCA\_EV\_ROOT.pem  
[22:34:33] : [Step 6/7] Adding debian:GeoTrust\_Primary\_Certification\_Authorit  
[22:34:33] : [Step 6/7] Adding debian:e-Szigno\_Root\_CA\_2017.pem  
[22:34:33] : [Step 6/7] Adding debian:AffirmTrust\_Premium\_ECC.pem  
[22:34:33] : [Step 6/7] Adding debian:Staat\_der\_Nederlanden\_EV\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Autoridad\_de\_Certificacion\_Firmaprofesi  
[22:34:33] : [Step 6/7] Adding debian:Izenpe.com.pem  
[22:34:33] : [Step 6/7] Adding debian:VeriSign\_Universal\_Root\_Certification\_A  
[22:34:33] : [Step 6/7] Adding debian:TWCA\_Root\_Certification\_Authority.pem  
[22:34:33] : [Step 6/7] Adding debian:AffirmTrust\_Premium.pem  
[22:34:33] : [Step 6/7] Adding debian:SwissSign\_Silver\_CA\_-\_G2.pem  
[22:34:33] : [Step 6/7] Adding debian:QuoVadis\_Root\_CA\_2\_G3.pem  
[22:34:33] : [Step 6/7] Adding debian:Microsoft\_ECC\_Root\_Certificate\_Authorit  
[22:34:33] : [Step 6/7] Adding debian:certSIGN\_Root\_CA\_G2.pem  
[22:34:33] : [Step 6/7] Adding debian:Staat\_der\_Nederlanden\_Root\_CA\_-\_G3.pem  
[22:34:33] : [Step 6/7] Adding debian:Actalis\_Authentication\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Hongkong\_Post\_Root\_CA\_3.pem  
[22:34:33] : [Step 6/7] Adding debian:Certigna.pem  
[22:34:33] : [Step 6/7] Adding debian:Go\_Daddy\_Root\_Certificate\_Authority\_-\_G  
[22:34:33] : [Step 6/7] Adding debian:Trustwave\_Global\_ECC\_P256\_Certification  
[22:34:33] : [Step 6/7] Adding debian:Security\_Communication\_RootCA2.pem  
[22:34:33] : [Step 6/7] Adding debian:TrustCor\_RootCert\_CA-2.pem  
[22:34:33] : [Step 6/7] Adding debian:DigiCert\_Assured\_ID\_Root\_G2.pem  
[22:34:33] : [Step 6/7] Adding debian:Certum\_Trusted\_Network\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Trustwave\_Global\_Certification\_Authorit  
[22:34:33] : [Step 6/7] Adding debian:SSL.com\_Root\_Certification\_Authority\_RS  
[22:34:33] : [Step 6/7] Adding debian:Entrust\_Root\_Certification\_Authority\_-\_  
[22:34:33] : [Step 6/7] Adding debian:DigiCert\_Global\_Root\_G2.pem  
[22:34:33] : [Step 6/7] Adding debian:GTS\_Root\_R1.pem  
[22:34:33] : [Step 6/7] Adding debian:GlobalSign\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:GTS\_Root\_R2.pem  
[22:34:33] : [Step 6/7] Adding debian:NetLock\_Arany\_=Class\_Gold=\_Főtanúsítván  
[22:34:33] : [Step 6/7] Adding debian:TWCA\_Global\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Starfield\_Services\_Root\_Certificate\_Aut  
[22:34:33] : [Step 6/7] Adding debian:Atos\_TrustedRoot\_2011.pem  
[22:34:33] : [Step 6/7] Adding debian:SecureTrust\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:GlobalSign\_ECC\_Root\_CA\_-\_R5.pem  
[22:34:33] : [Step 6/7] Adding debian:Go\_Daddy\_Class\_2\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Trustis\_FPS\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:NAVER\_Global\_Root\_Certification\_Authori  
[22:34:33] : [Step 6/7] Adding debian:Baltimore\_CyberTrust\_Root.pem  
[22:34:33] : [Step 6/7] Adding debian:UCA\_Global\_G2\_Root.pem  
[22:34:33] : [Step 6/7] Adding debian:GTS\_Root\_R3.pem  
[22:34:33] : [Step 6/7] Adding debian:IdenTrust\_Public\_Sector\_Root\_CA\_1.pem  
[22:34:33] : [Step 6/7] Adding debian:TrustCor\_RootCert\_CA-1.pem  
[22:34:33] : [Step 6/7] Adding debian:Amazon\_Root\_CA\_4.pem  
[22:34:33] : [Step 6/7] Adding debian:USERTrust\_RSA\_Certification\_Authority.p  
[22:34:33] : [Step 6/7] Adding debian:DigiCert\_High\_Assurance\_EV\_Root\_CA.pem

[22:34:33] : [Step 6/7] Adding debian:ACCVRAIZ1.pem  
[22:34:33] : [Step 6/7] Adding debian:DigiCert\_Global\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:TrustCor\_ECA-1.pem  
[22:34:33] : [Step 6/7] Adding debian:ISRG\_Root\_X1.pem  
[22:34:33] : [Step 6/7] Adding debian:Hongkong\_Post\_Root\_CA\_1.pem  
[22:34:33] : [Step 6/7] Adding debian:DigiCert\_Trusted\_Root\_G4.pem  
[22:34:33] : [Step 6/7] Adding debian:Cybertrust\_Global\_Root.pem  
[22:34:33] : [Step 6/7] Adding debian:DigiCert\_Assured\_ID\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Buypass\_Class\_2\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:QuoVadis\_Root\_CA\_3.pem  
[22:34:33] : [Step 6/7] Adding debian:SecureSign\_RootCA11.pem  
[22:34:33] : [Step 6/7] Adding debian:COMODO\_RSA\_Certification\_Authority.pem  
[22:34:33] : [Step 6/7] Adding debian:USERTrust\_ECC\_Certification\_Authority.p  
[22:34:33] : [Step 6/7] Adding debian:SwissSign\_Gold\_CA\_-\_G2.pem  
[22:34:33] : [Step 6/7] Adding debian:IdenTrust\_Commercial\_Root\_CA\_1.pem  
[22:34:33] : [Step 6/7] Adding debian:Microsec\_e-Szigno\_Root\_CA\_2009.pem  
[22:34:33] : [Step 6/7] Adding debian:AffirmTrust\_Commercial.pem  
[22:34:33] : [Step 6/7] Adding debian:emSign\_Root\_CA\_-\_C1.pem  
[22:34:33] : [Step 6/7] Adding debian:GlobalSign\_Root\_CA\_-\_R2.pem  
[22:34:33] : [Step 6/7] Adding debian:T-TeleSec\_GlobalRoot\_Class\_3.pem  
[22:34:33] : [Step 6/7] Adding debian:COMODO\_ECC\_Certification\_Authority.pem  
[22:34:33] : [Step 6/7] Adding debian:QuoVadis\_Root\_CA\_1\_G3.pem  
[22:34:33] : [Step 6/7] Adding debian:D-TRUST\_Root\_Class\_3\_CA\_2\_EV\_2009.pem  
[22:34:33] : [Step 6/7] Adding debian:Chambers\_of\_Commerce\_Root\_-\_2008.pem  
[22:34:33] : [Step 6/7] Adding debian:Global\_Chambersign\_Root\_-\_2008.pem  
[22:34:33] : [Step 6/7] Adding debian:UCA\_Extended\_Validation\_Root.pem  
[22:34:33] : [Step 6/7] Adding debian:Entrust.net\_Premium\_2048\_Secure\_Server\_  
[22:34:33] : [Step 6/7] Adding debian:QuoVadis\_Root\_CA\_2.pem  
[22:34:33] : [Step 6/7] Adding debian:Microsoft\_RSA\_Root\_Certificate\_Authorit  
[22:34:33] : [Step 6/7] Adding debian:Starfield\_Root\_Certificate\_Authority\_-\_  
[22:34:33] : [Step 6/7] Adding debian:COMODO\_Certification\_Authority.pem  
[22:34:33] : [Step 6/7] Adding debian:AC\_RAIZ\_FNMT-RCM.pem  
[22:34:33] : [Step 6/7] Adding debian:Starfield\_Class\_2\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Amazon\_Root\_CA\_2.pem  
[22:34:33] : [Step 6/7] Adding debian:Entrust\_Root\_Certification\_Authority.pe  
[22:34:33] : [Step 6/7] Adding debian:Hellenic\_Academic\_and\_Research\_Institut  
[22:34:33] : [Step 6/7] Adding debian:Entrust\_Root\_Certification\_Authority\_-\_  
[22:34:33] : [Step 6/7] Adding debian:XRamp\_Global\_CA\_Root.pem  
[22:34:33] : [Step 6/7] Adding debian:GlobalSign\_Root\_CA\_-\_R6.pem  
[22:34:33] : [Step 6/7] Adding debian:SSL.com\_Root\_Certification\_Authority\_EC  
[22:34:33] : [Step 6/7] Adding debian:SSL.com\_EV\_Root\_Certification\_Authority  
[22:34:33] : [Step 6/7] Adding debian:AffirmTrust\_Networking.pem  
[22:34:33] : [Step 6/7] Adding debian:Entrust\_Root\_Certification\_Authority\_-\_  
[22:34:33] : [Step 6/7] Adding debian:GDCA\_TrustAUTH\_R5\_ROOT.pem  
[22:34:33] : [Step 6/7] Adding debian:ePKI\_Root\_Certification\_Authority.pem  
[22:34:33] : [Step 6/7] Adding debian:certSIGN\_ROOT\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:Network\_Solutions\_Certificate\_Authority  
[22:34:33] : [Step 6/7] Adding debian:Comodo\_AAA\_Services\_root.pem  
[22:34:33] : [Step 6/7] Adding debian:Certum\_Trusted\_Network\_CA\_2.pem  
[22:34:33] : [Step 6/7] Adding debian:Buypass\_Class\_3\_Root\_CA.pem  
[22:34:33] : [Step 6/7] Adding debian:CA\_Disig\_Root\_R2.pem  
[22:34:33] : [Step 6/7] Adding debian:Hellenic\_Academic\_and\_Research\_Institut

[illegible]



```
[22:34:34] : [Step 6/7] update-alternatives: using /usr/lib/jvm/java-8-openjd
[22:34:34] : [Step 6/7] update-alternatives: using /usr/lib/jvm/java-8-openjd
[22:34:34] : [Step 6/7] update-alternatives: using /usr/lib/jvm/java-8-openjd
[22:34:34] : [Step 6/7] update-alternatives: using /usr/lib/jvm/java-8-openjd
[22:34:34] : [Step 6/7] update-alternatives: using /usr/lib/jvm/java-8-openjd
[22:34:35]i: [Step 6/7] Docker event: {"status":"die","id":"274d03778b3400d7c
[22:34:37] : [Step 6/7] Removing intermediate container 274d03778b34
[22:34:37] : [Step 6/7] ---> 7e696fad22f8
[22:34:37] : [Step 6/7] Step 5/7 : COPY /build/libs/reac-and-spring-data-rest
[22:34:37]i: [Step 6/7] Docker event: {"status":"destroy","id":"274d03778b340
[22:34:38] : [Step 6/7] ---> 384fee9e65fd
[22:34:38] : [Step 6/7] Step 6/7 : RUN rm -Rf /tmp/build
[22:34:38] : [Step 6/7] ---> Running in 152f836b76ba
[22:34:38]i: [Step 6/7] Docker event: {"status":"create","id":"152f836b76ba85
[22:34:38]i: [Step 6/7] Docker event: {"status":"attach","id":"152f836b76ba85
[22:34:38]i: [Step 6/7] Docker event: {"status":"start","id":"152f836b76ba851
[22:34:38]i: [Step 6/7] Docker event: {"status":"die","id":"152f836b76ba851d9
[22:34:38] : [Step 6/7] Removing intermediate container 152f836b76ba
[22:34:38] : [Step 6/7] ---> a5fc7c08aae1
[22:34:38] : [Step 6/7] Step 7/7 : EXPOSE 3500
[22:34:38]i: [Step 6/7] Docker event: {"status":"destroy","id":"152f836b76ba8
[22:34:38] : [Step 6/7] ---> Running in 486e8906d44e
[22:34:38]i: [Step 6/7] Docker event: {"status":"create","id":"486e8906d44ea7
[22:34:38] : [Step 6/7] Removing intermediate container 486e8906d44e
[22:34:38] : [Step 6/7] ---> 842b8712f9f9
[22:34:38]i: [Step 6/7] Docker event: {"status":"destroy","id":"486e8906d44ea
[22:34:39]i: [Step 6/7] ##teamcity[dockerMessage type='dockerImage.build' val
[22:34:39] : [Step 6/7] Successfully built 842b8712f9f9
[22:34:39] : [Step 6/7] Successfully tagged pmonteiro1211790/devops-21-22-lmn
[22:34:39] : [Step 6/7] Process exited with code 0
[22:34:39] : Step 7/7: Docker_Push_Container_Image (Docker) (15s)
[22:34:39] : [Step 7/7] Starting: /bin/sh -c "docker push pmonteiro1211790/d
[22:34:39] : [Step 7/7] in directory: /mnt/agent/work/bb417815b835b033
[22:34:39] : [Step 7/7] The push refers to repository [docker.io/pmonteiro121
[22:34:39] : [Step 7/7] 9977cd88abca: Preparing
[22:34:39] : [Step 7/7] c84dd405d385: Preparing
[22:34:39] : [Step 7/7] b7552852fc0d: Preparing
[22:34:39] : [Step 7/7] 081adc8dec80: Preparing
[22:34:39] : [Step 7/7] 3eb9f3e83933: Preparing
[22:34:39] : [Step 7/7] 4843b69753d4: Preparing
[22:34:39] : [Step 7/7] 0bac03fe9152: Preparing
[22:34:39] : [Step 7/7] 4f96ec67c179: Preparing
[22:34:39] : [Step 7/7] fb76f8b34fda: Preparing
[22:34:39] : [Step 7/7] bf8cedc62fb3: Preparing
[22:34:39] : [Step 7/7] 4843b69753d4: Waiting
[22:34:39] : [Step 7/7] 0bac03fe9152: Waiting
[22:34:39] : [Step 7/7] 4f96ec67c179: Waiting
[22:34:39] : [Step 7/7] fb76f8b34fda: Waiting
[22:34:39] : [Step 7/7] bf8cedc62fb3: Waiting
[22:34:40] : [Step 7/7] 3eb9f3e83933: Layer already exists
[22:34:40] : [Step 7/7] 081adc8dec80: Layer already exists
[22:34:40] : [Step 7/7] 4843b69753d4: Layer already exists
```

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