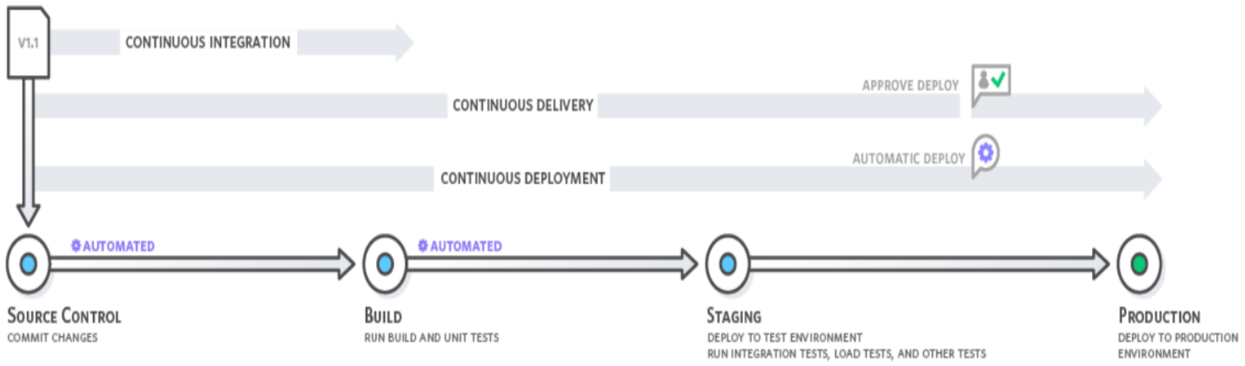
Continuous Integration

Continuous Integration is a DevOps software development practice where developers regularly merge their code changes into a central repository like GitHub, after which automated builds and tests are run



Some Continuous Integration tools

Jenkins

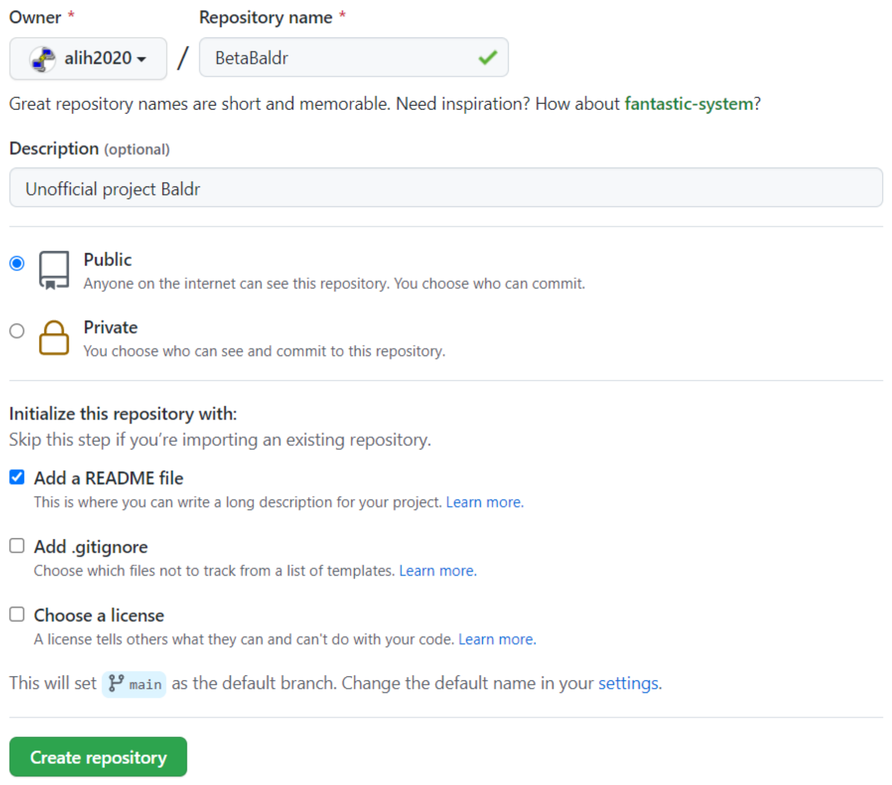
Travis CI

Cercle CI

Objectif: * Publish the application Baldr or any project professionally *

1- In GitHub, create a new repository

- Give a repository name
- Make the repository public to access GitHub Pages afterwards
- Add a README file in order not to initialize the repository empty


Owner * Repository name *

alih2020 / BetaBaldr

Great repository names are short and memorable. Need inspiration? How about fantastic-system?

Description (optional)

Unofficial project Baldr

(●) Public
Anyone on the internet can see this repository. You choose who can commit.

( ) Private
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

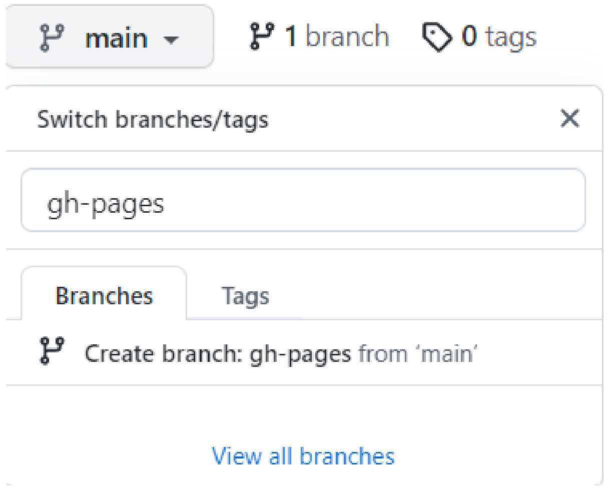
[✓] Add a README file
This is where you can write a long description for your project. Learn more.

[ ] Add .gitignore
Choose which files not to track from a list of templates. Learn more.

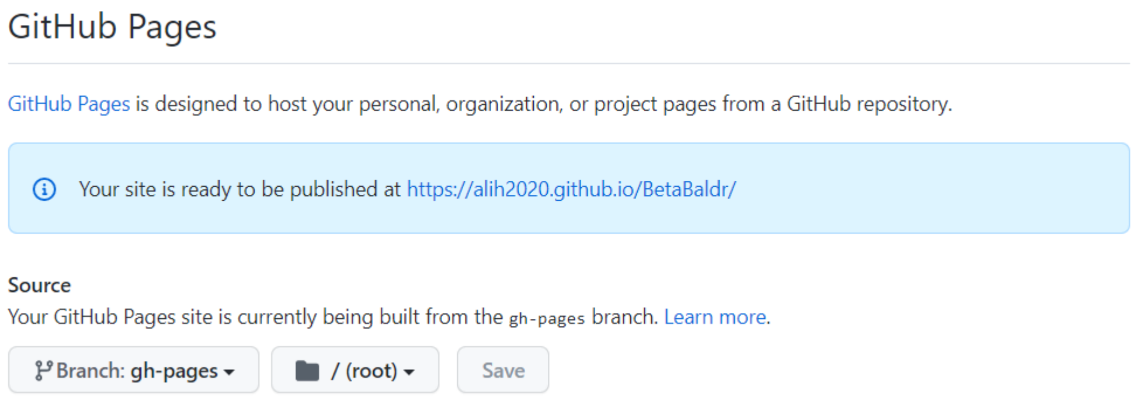
[ ] Choose a license
A license tells others what they can and can't do with your code. Learn more.

This will set main as the default branch. Change the default name in your settings.

2- Create branches (if necessary, depend on the project's nature) like this



3- In GitHub Pages >> Source, change the branch for the respected source when opening GitHub Pages


GitHub Pages

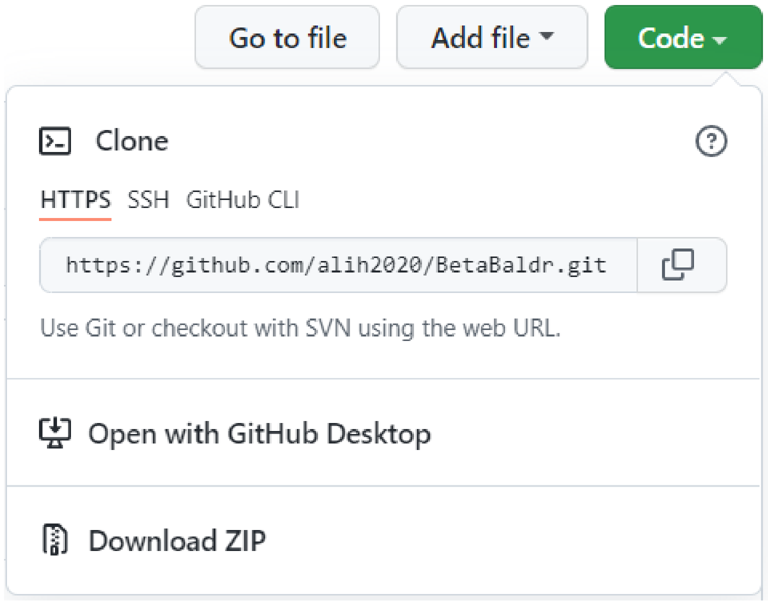
GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is ready to be published at https://alih2020.github.io/BetaBaldr/

Source

Your GitHub Pages site is currently being built from the `gh-pages` branch. Learn more.

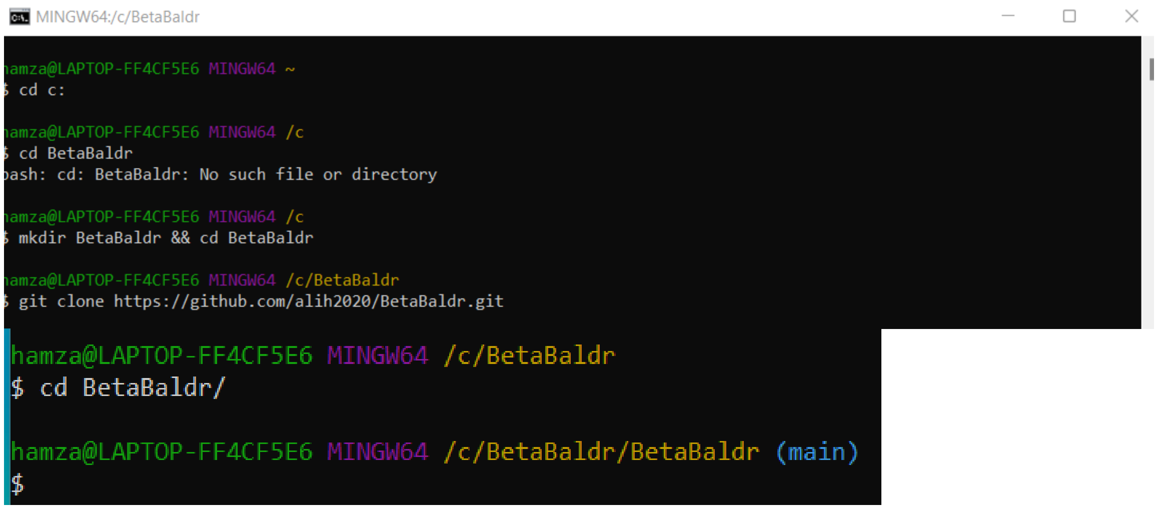
4- Copy the GitHub code in order to work with Git Bash like this



```
https://github.com/alih2020/BetaBaldr.git
```

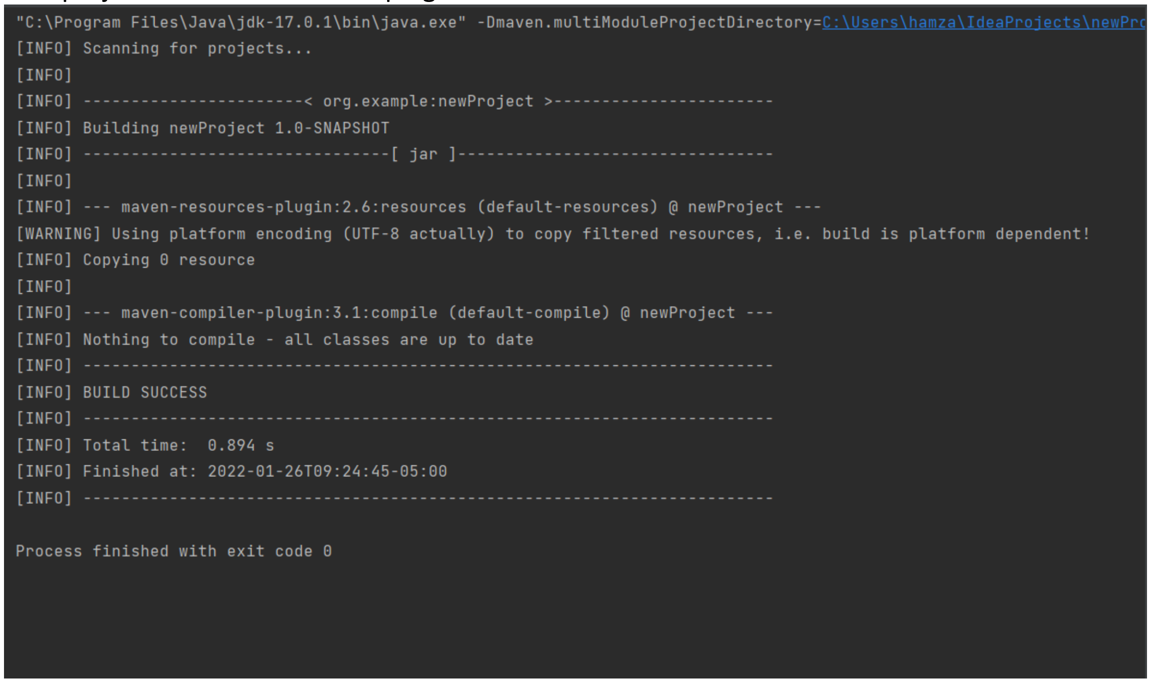
Use Git or checkout with SVN using the web URL.

5- Clone the code URL:// by creating a directory where to clone and access the git directory

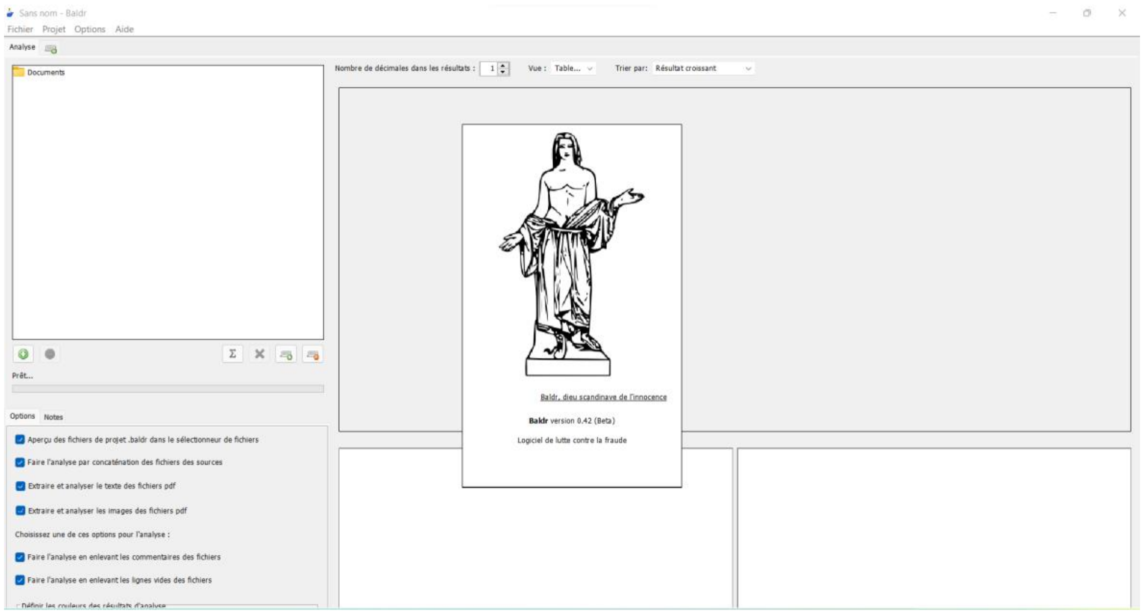


```
amza@LAPTOP-FF4CF5E6 MINGW64 ~
 cd c:

amza@LAPTOP-FF4CF5E6 MINGW64 /c
 cd BetaBaldr
ash: cd: BetaBaldr: No such file or directory

amza@LAPTOP-FF4CF5E6 MINGW64 /c
 mkdir BetaBaldr && cd BetaBaldr

amza@LAPTOP-FF4CF5E6 MINGW64 /c/BetaBaldr
 git clone https://github.com/alih2020/BetaBaldr.git
hamza@LAPTOP-FF4CF5E6 MINGW64 /c/BetaBaldr
$ cd BetaBaldr/

hamza@LAPTOP-FF4CF5E6 MINGW64 /c/BetaBaldr/BetaBaldr (main)
$
```

6- On IntelliJ, run the project Baldr and test Maven commands as this particular type of Java project will use the Maven plugins



```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" -Dmaven.multiModuleProjectDirectory=C:\Users\hamza\IdeaProjects\newPro
[INFO] Scanning for projects...
[INFO]
[INFO] ----------------------< org.example:newProject >----------------------
[INFO] Building newProject 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ newProject ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ newProject ---
[INFO] Nothing to compile - all classes are up to date
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  0.894 s
[INFO] Finished at: 2022-01-26T09:24:45-05:00
[INFO] ------------------------------------------------------------------------

Process finished with exit code 0
```



Nombre de décimales dans les résultats : 1 Vue : Table... Trier par: Résultat croissant

Baldr version 0.42 (Beta)

Logiciel de lutte contre la fraude

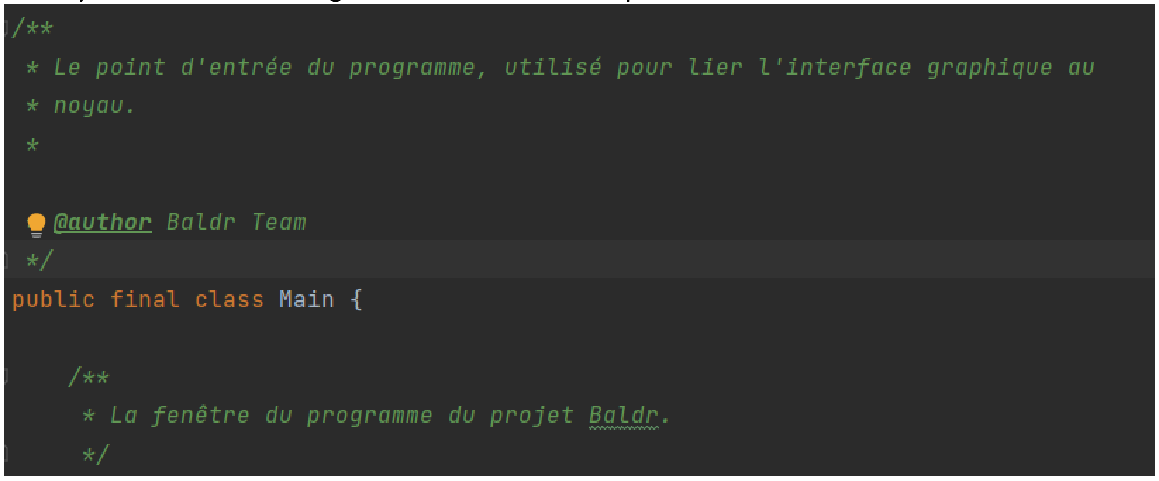
- ✓ Aperçu des fichiers de projet .baldr dans le sélectionneur de fichiers
- ✓ Faire l'analyse par concaténation des fichiers des sources
- ✓ Extraire et analyser le texte des fichiers pdf
- ✓ Extraire et analyser les images des fichiers pdf

Choisissez une de ces options pour l'analyse :

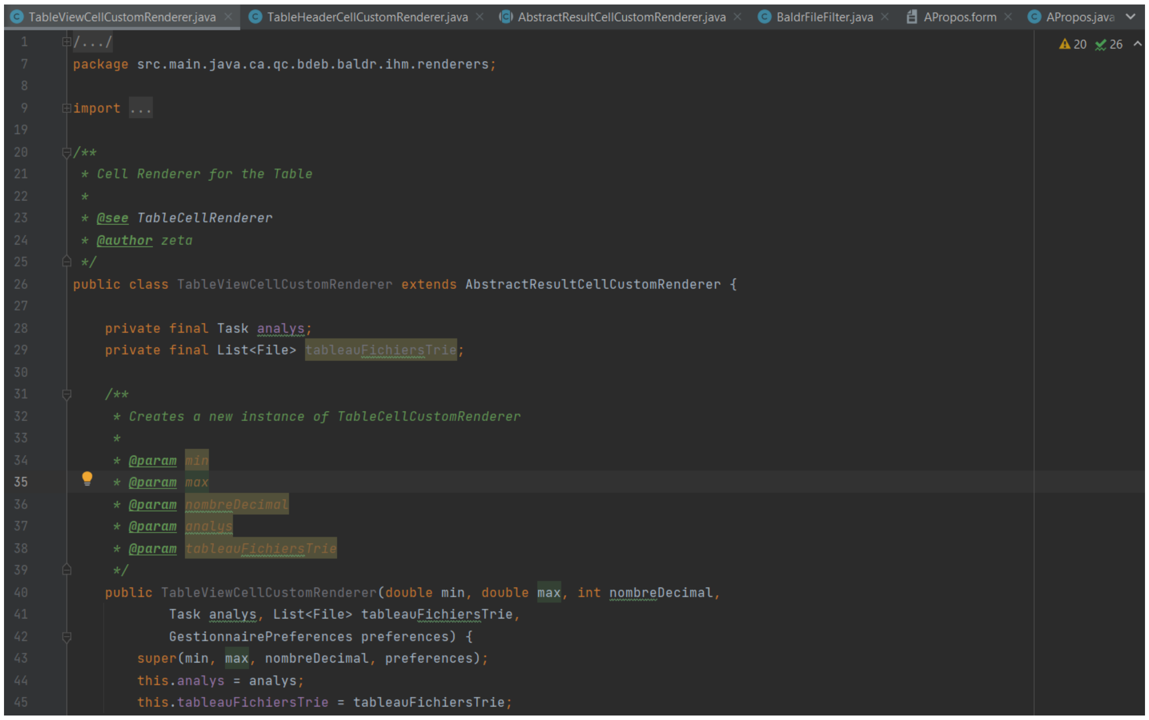
- ✓ Faire l'analyse en enlevant les commentaires des fichiers
- ✓ Faire l'analyse en enlevant les lignes vides des fichiers

Définir les couleurs des résultats d'analyse

7- Modify JAVA code according the Cercle CI. For example :



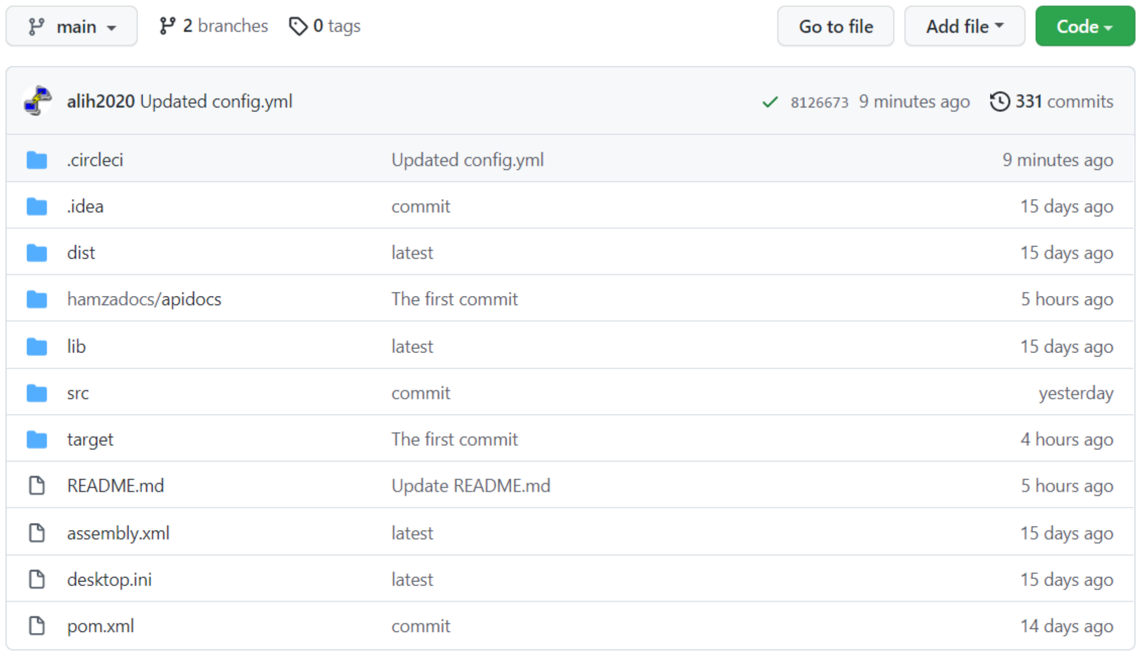
```java
/**
 * Le point d'entrée du programme, utilisé pour lier l'interface graphique au
 * noyau.
 *

 @author Baldr Team
 */
public final class Main {

    /**
     * La fenêtre du programme du projet Baldr.
     */
```



TableViewCellCustomRenderer.java | TableHeaderCellCustomRenderer.java | AbstractResultCellCustomRenderer.java | BaldrFileFilter.java | APropos.form | APropos.java

```java
/.../
package src.main.java.ca.qc.bdeb.baldr.ihm.renderers;

import ...

/**
 * Cell Renderer for the Table
 *
 * @see TableCellRenderer
 * @author zeta
 */
public class TableViewCellCustomRenderer extends AbstractResultCellCustomRenderer {

    private final Task analys;
    private final List<File> tableauFichiersTrie;

    /**
     * Creates a new instance of TableCellCustomRenderer
     *
     * @param min
     * @param max
     * @param nombreDecimal
     * @param analys
     * @param tableauFichiersTrie
     */
    public TableViewCellCustomRenderer(double min, double max, int nombreDecimal,
            Task analys, List<File> tableauFichiersTrie,
            GestionnairePreferences preferences) {
        super(min, max, nombreDecimal, preferences);
        this.analys = analys;
        this.tableauFichiersTrie = tableauFichiersTrie;
```

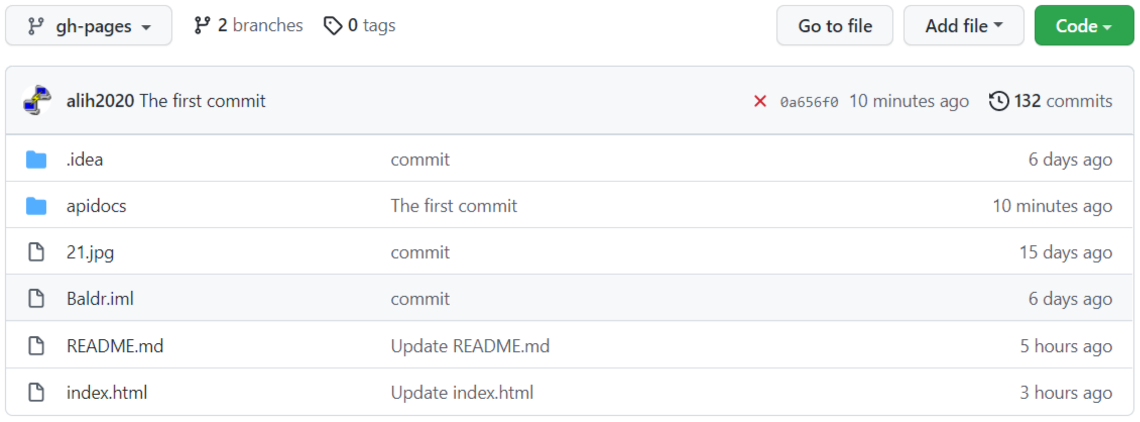
Content of the branch main:


main
2 branches
0 tags
Go to file
Add file
Code

alih2020 Updated config.yml ✓ 8126673 9 minutes ago 331 commits

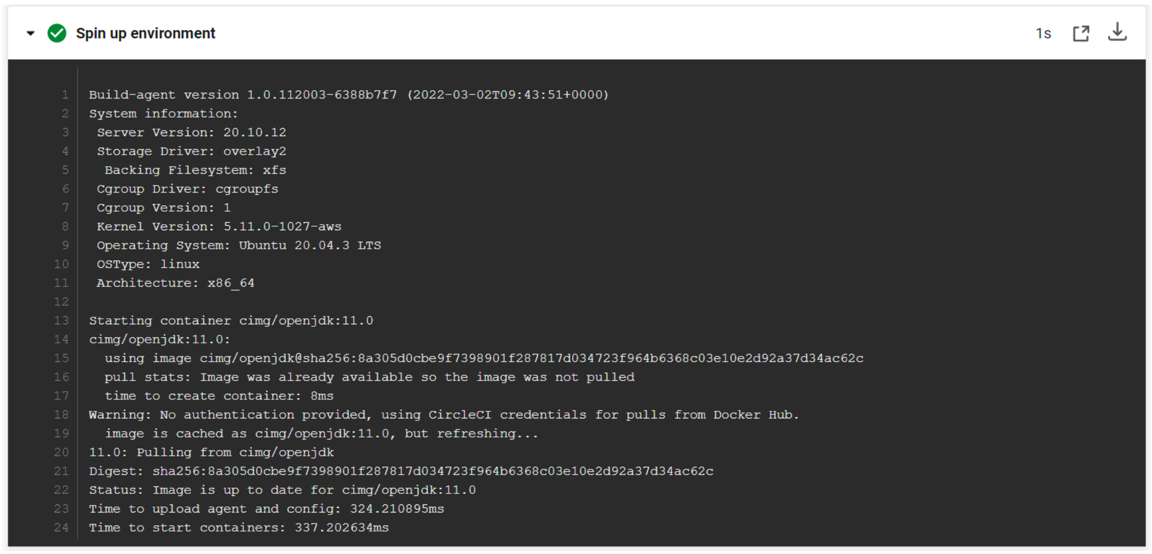
.circleci	Updated config.yml	9 minutes ago
.idea	commit	15 days ago
dist	latest	15 days ago
hamzadocs/apidocs	The first commit	5 hours ago
lib	latest	15 days ago
src	commit	yesterday
target	The first commit	4 hours ago
README.md	Update README.md	5 hours ago
assembly.xml	latest	15 days ago
desktop.ini	latest	15 days ago
pom.xml	commit	14 days ago

Content of the branch gh-pages


gh-pages
2 branches
0 tags
Go to file
Add file
Code

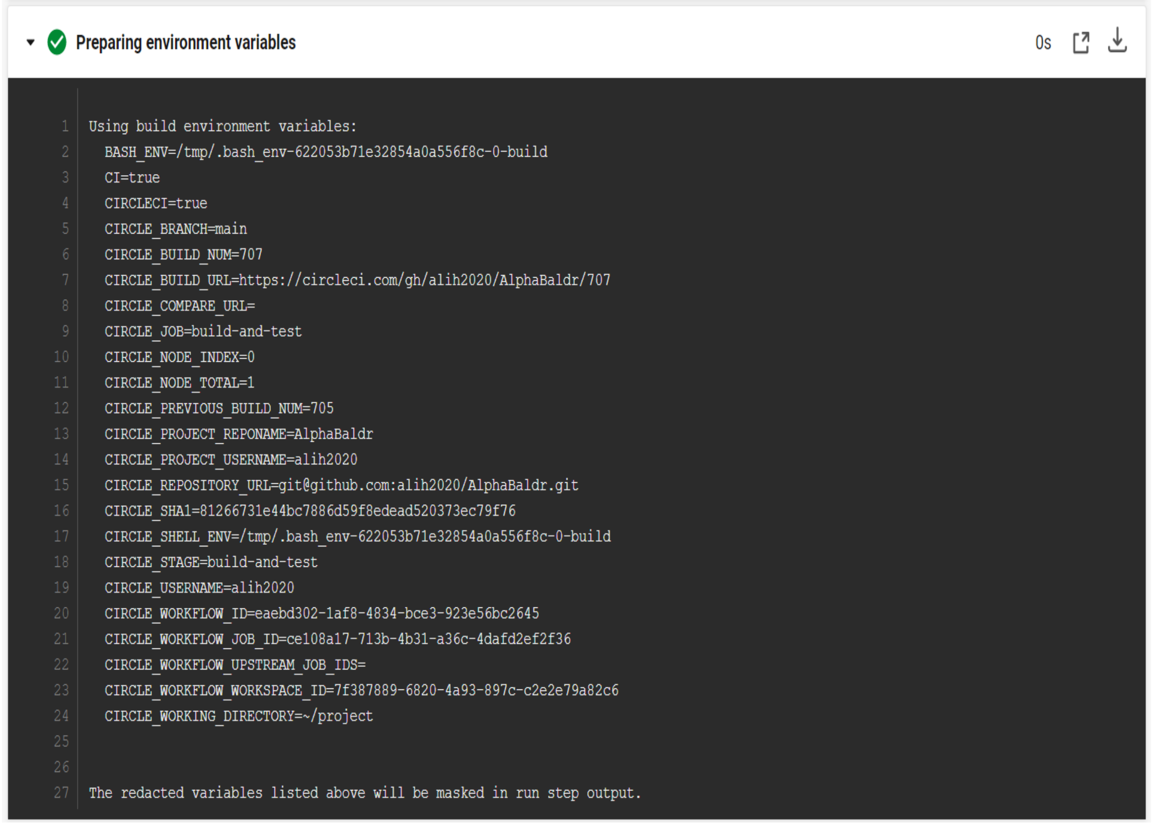
alih2020 The first commit ✕ 0a656f0 10 minutes ago 132 commits

.idea	commit	6 days ago
apidocs	The first commit	10 minutes ago
21.jpg	commit	15 days ago
Baldr.iml	commit	6 days ago
README.md	Update README.md	5 hours ago
index.html	Update index.html	3 hours ago



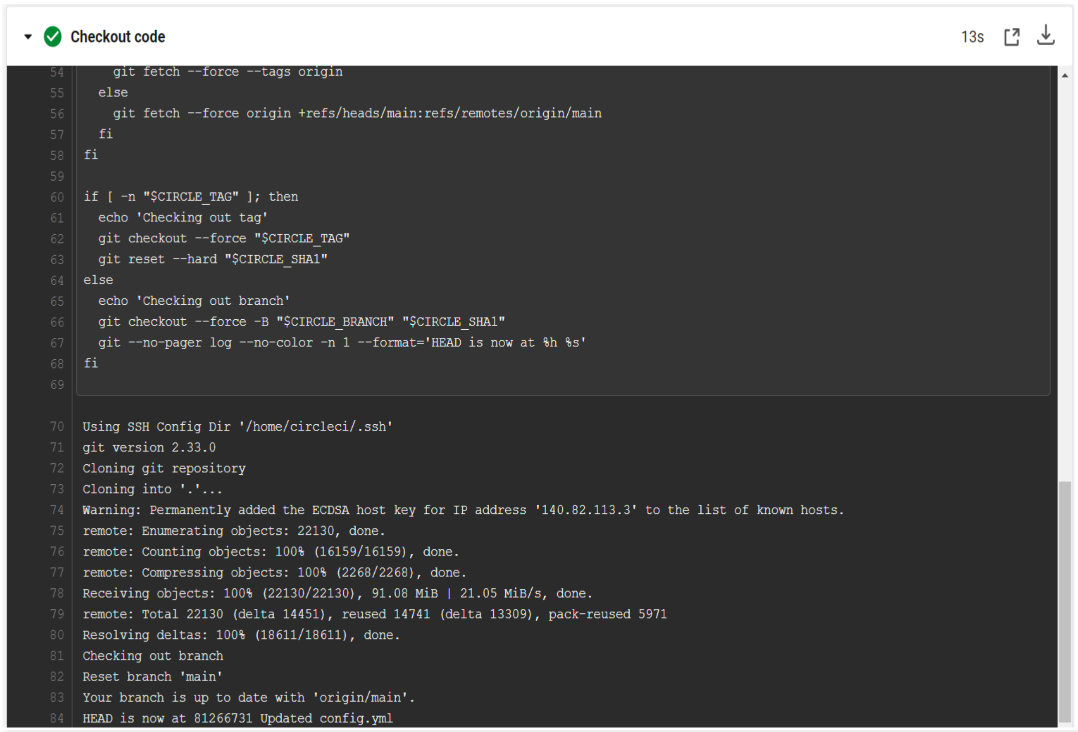
Spin up environment 1s

```
Build-agent version 1.0.112003-6388b7f7 (2022-03-02T09:43:51+0000)
System information:
 Server Version: 20.10.12
 Storage Driver: overlay2
  Backing Filesystem: xfs
 Cgroup Driver: cgroupfs
 Cgroup Version: 1
 Kernel Version: 5.11.0-1027-aws
 Operating System: Ubuntu 20.04.3 LTS
 OSType: linux
 Architecture: x86_64

Starting container cimg/openjdk:11.0
cimg/openjdk:11.0:
  using image cimg/openjdk@sha256:8a305d0cbe9f7398901f287817d034723f964b6368c03e10e2d92a37d34ac62c
  pull stats: Image was already available so the image was not pulled
  time to create container: 8ms
Warning: No authentication provided, using CircleCI credentials for pulls from Docker Hub.
  image is cached as cimg/openjdk:11.0, but refreshing...
11.0: Pulling from cimg/openjdk
Digest: sha256:8a305d0cbe9f7398901f287817d034723f964b6368c03e10e2d92a37d34ac62c
Status: Image is up to date for cimg/openjdk:11.0
Time to upload agent and config: 324.210895ms
Time to start containers: 337.202634ms
```



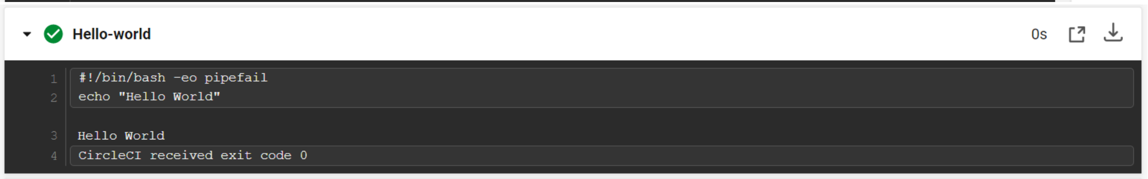
Preparing environment variables 0s

```
Using build environment variables:
  BASH_ENV=/tmp/.bash_env-622053b71e32854a0a556f8c-0-build
  CI=true
  CIRCLECI=true
  CIRCLE_BRANCH=main
  CIRCLE_BUILD_NUM=707
  CIRCLE_BUILD_URL=https://circleci.com/gh/alih2020/AlphaBaldr/707
  CIRCLE_COMPARE_URL=
  CIRCLE_JOB=build-and-test
  CIRCLE_NODE_INDEX=0
  CIRCLE_NODE_TOTAL=1
  CIRCLE_PREVIOUS_BUILD_NUM=705
  CIRCLE_PROJECT_REPONAME=AlphaBaldr
  CIRCLE_PROJECT_USERNAME=alih2020
  CIRCLE_REPOSITORY_URL=git@github.com:alih2020/AlphaBaldr.git
  CIRCLE_SHA1=81266731e44bc7886d59f8edead520373ec79f76
  CIRCLE_SHELL_ENV=/tmp/.bash_env-622053b71e32854a0a556f8c-0-build
  CIRCLE_STAGE=build-and-test
  CIRCLE_USERNAME=alih2020
  CIRCLE_WORKFLOW_ID=eaebd302-1af8-4834-bce3-923e56bc2645
  CIRCLE_WORKFLOW_JOB_ID=ce108a17-713b-4b31-a36c-4dafd2ef2f36
  CIRCLE_WORKFLOW_UPSTREAM_JOB_IDS=
  CIRCLE_WORKFLOW_WORKSPACE_ID=7f387889-6820-4a93-897c-c2e2e79a82c6
  CIRCLE_WORKING_DIRECTORY=~/project


The redacted variables listed above will be masked in run step output.
```



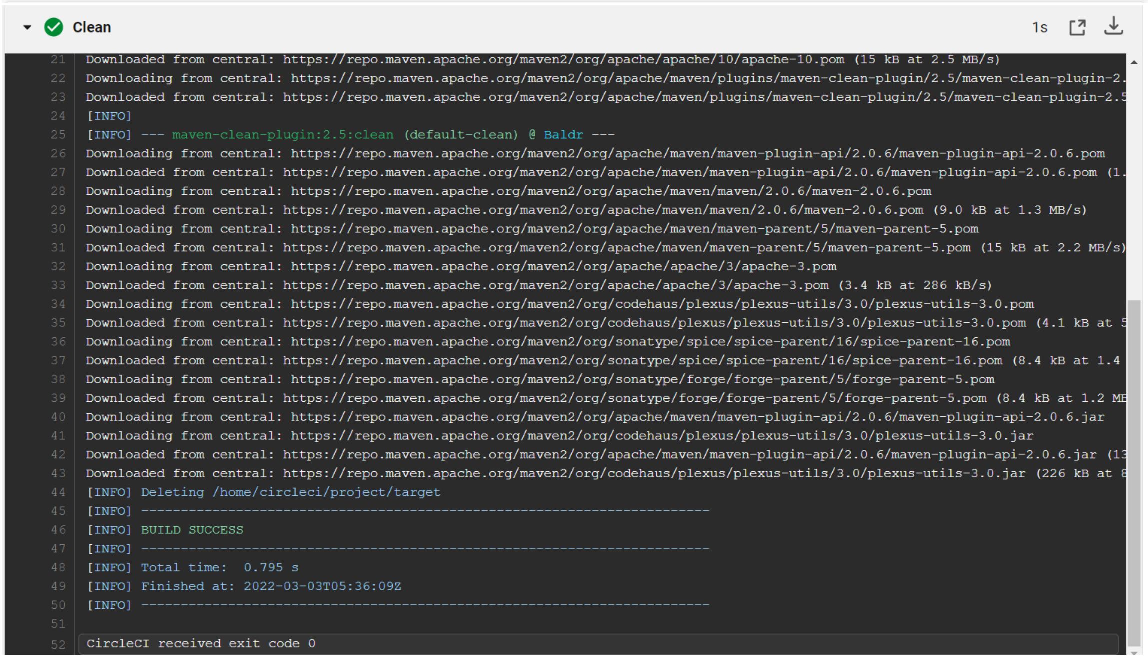
Checkout code 13s

```
    git fetch --force --tags origin
  else
    git fetch --force origin +refs/heads/main:refs/remotes/origin/main
  fi
fi

if [ -n "$CIRCLE_TAG" ]; then
  echo 'Checking out tag'
  git checkout --force "$CIRCLE_TAG"
  git reset --hard "$CIRCLE_SHA1"
else
  echo 'Checking out branch'
  git checkout --force -B "$CIRCLE_BRANCH" "$CIRCLE_SHA1"
  git --no-pager log --no-color -n 1 --format='HEAD is now at %h %s'
fi


Using SSH Config Dir '/home/circleci/.ssh'
git version 2.33.0
Cloning git repository
Cloning into '.'...
Warning: Permanently added the ECDSA host key for IP address '140.82.113.3' to the list of known hosts.
remote: Enumerating objects: 22130, done.
remote: Counting objects: 100% (16159/16159), done.
remote: Compressing objects: 100% (2268/2268), done.
Receiving objects: 100% (22130/22130), 91.08 MiB | 21.05 MiB/s, done.
remote: Total 22130 (delta 14451), reused 14741 (delta 13309), pack-reused 5971
Resolving deltas: 100% (18611/18611), done.
Checking out branch
Reset branch 'main'
Your branch is up to date with 'origin/main'.
HEAD is now at 81266731 Updated config.yml
```



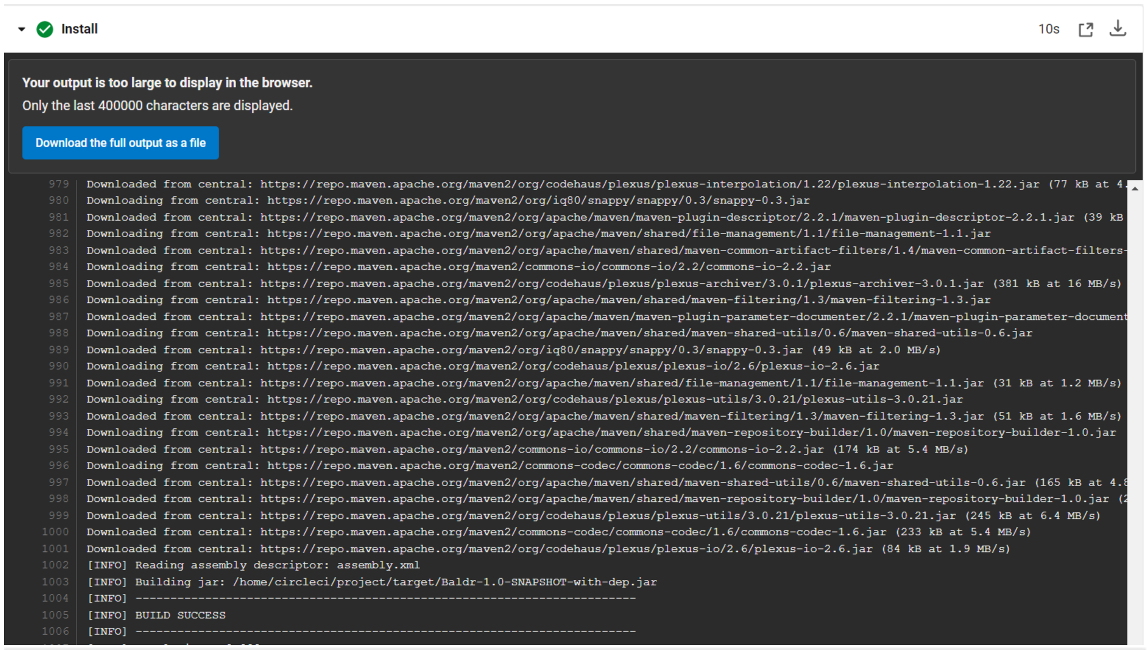
Hello-world 0s

```
#!/bin/bash -eo pipefail
echo "Hello World"

Hello World
CircleCI received exit code 0
```



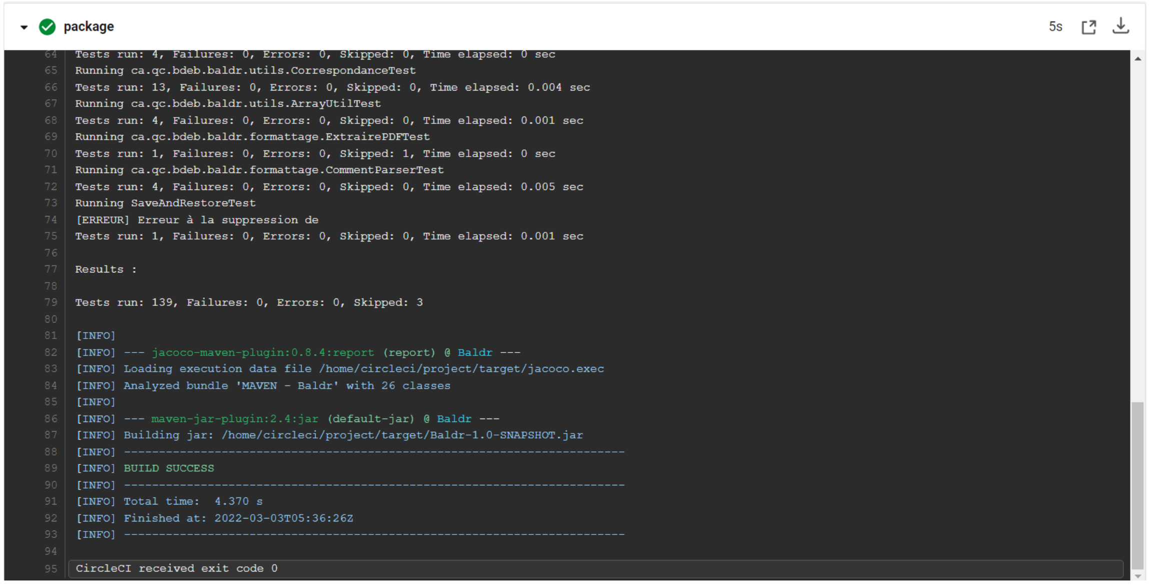
Clean 1s

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/10/apache-10.pom (15 kB at 2.5 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ Baldr ---
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (1.
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven/2.0.6/maven-2.0.6.pom (9.0 kB at 1.3 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/5/maven-parent-5.pom (15 kB at 2.2 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom (3.4 kB at 286 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.pom (4.1 kB at 5
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/spice/spice-parent/16/spice-parent-16.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/spice/spice-parent/16/spice-parent-16.pom (8.4 kB at 1.4
Downloading from central: https://repo.maven.apache.org/maven2/org/sonatype/forge/forge-parent/5/forge-parent-5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/forge/forge-parent/5/forge-parent-5.pom (8.4 kB at 1.2 MB
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.jar (13
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.jar (226 kB at 8
[INFO] Deleting /home/circleci/project/target
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  0.795 s
[INFO] Finished at: 2022-03-03T05:36:09Z
[INFO] ------------------------------------------------------------------------

CircleCI received exit code 0
```

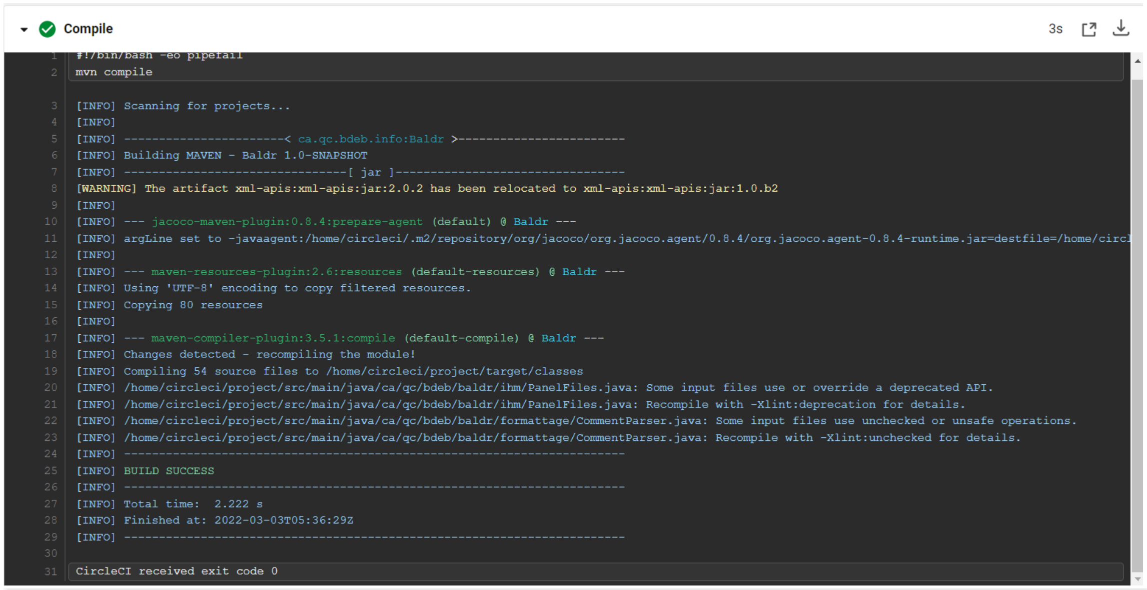


Your output is too large to display in the browser.
Only the last 400000 characters are displayed.

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-interpolation/1.22/plexus-interpolation-1.22.jar (77 kB at 4.
Downloading from central: https://repo.maven.apache.org/maven2/org/iq80/snappy/snappy/0.3/snappy-0.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-descriptor/2.2.1/maven-plugin-descriptor-2.2.1.jar (39 kB
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/file-management/1.1/file-management-1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/1.4/maven-common-artifact-filters-
Downloading from central: https://repo.maven.apache.org/maven2/commons-io/commons-io/2.2/commons-io-2.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-archiver/3.0.1/plexus-archiver-3.0.1.jar (381 kB at 16 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/1.3/maven-filtering-1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-parameter-documenter/2.2.1/maven-plugin-parameter-document
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.6/maven-shared-utils-0.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/iq80/snappy/snappy/0.3/snappy-0.3.jar (49 kB at 2.0 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.6/plexus-io-2.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/file-management/1.1/file-management-1.1.jar (31 kB at 1.2 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.21/plexus-utils-3.0.21.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-filtering/1.3/maven-filtering-1.3.jar (51 kB at 1.6 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-repository-builder/1.0/maven-repository-builder-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/commons-io/commons-io/2.2/commons-io-2.2.jar (174 kB at 5.4 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.6/maven-shared-utils-0.6.jar (165 kB at 4.
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-repository-builder/1.0/maven-repository-builder-1.0.jar (
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.21/plexus-utils-3.0.21.jar (245 kB at 6.4 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar (233 kB at 5.4 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-io/2.6/plexus-io-2.6.jar (84 kB at 1.9 MB/s)
[INFO] Reading assembly descriptor: assembly.xml
[INFO] Building jar: /home/circleci/project/target/Baldr-1.0-SNAPSHOT-with-dep.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
```

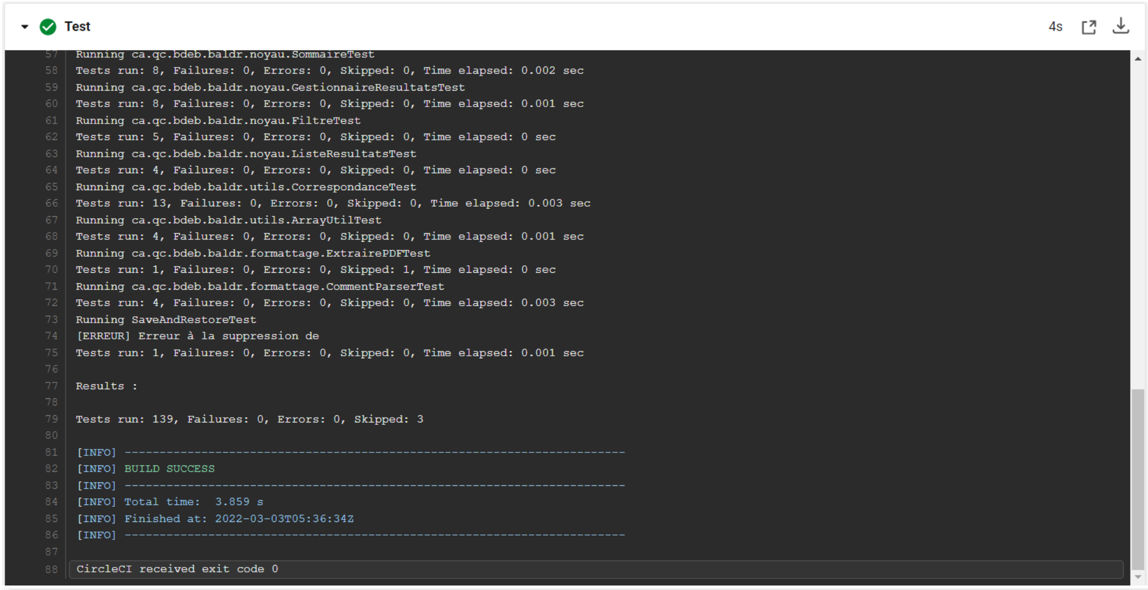


```
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 sec
Running ca.qc.bdeb.baldr.utils.CorrespondanceTest
Tests run: 13, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.004 sec
Running ca.qc.bdeb.baldr.utils.ArrayUtilTest
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 sec
Running ca.qc.bdeb.baldr.formattage.ExtrairePDFTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 1, Time elapsed: 0 sec
Running ca.qc.bdeb.baldr.formattage.CommentParserTest
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.005 sec
Running SaveAndRestoreTest
[ERREUR] Erreur à la suppression de
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 sec

Results :

Tests run: 139, Failures: 0, Errors: 0, Skipped: 3

[INFO]
[INFO] --- jacoco-maven-plugin:0.8.4:report (report) @ Baldr ---
[INFO] Loading execution data file /home/circleci/project/target/jacoco.exec
[INFO] Analyzed bundle 'MAVEN - Baldr' with 26 classes
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ Baldr ---
[INFO] Building jar: /home/circleci/project/target/Baldr-1.0-SNAPSHOT.jar
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  4.370 s
[INFO] Finished at: 2022-03-03T05:36:26Z
[INFO] ------------------------------------------------------------------------

CircleCI received exit code 0
```



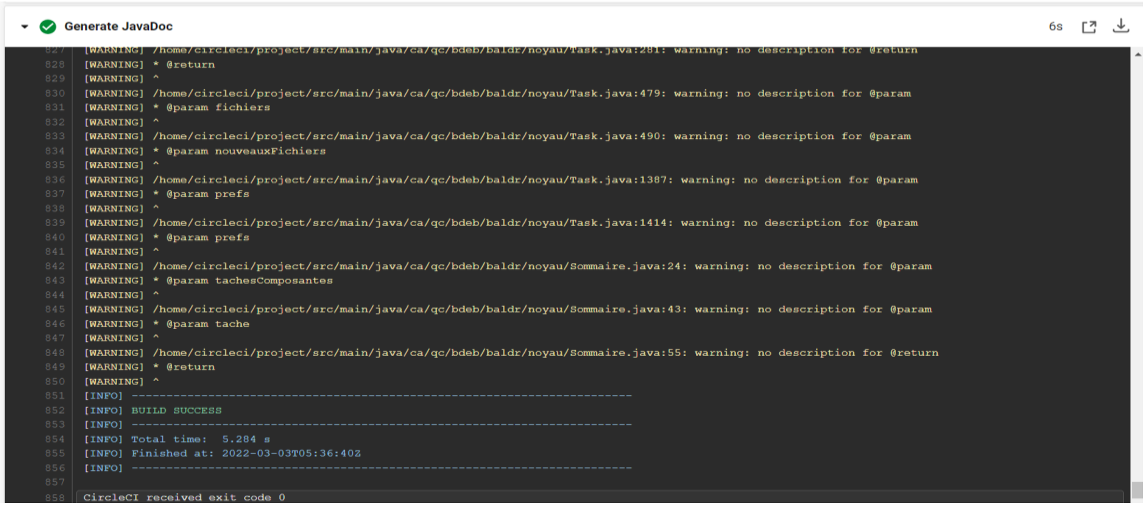
Compile 3s

```
#!/bin/bash -eo pipefail
mvn compile

[INFO] Scanning for projects...
[INFO]
[INFO] ----------------------< ca.qc.bdeb.info:Baldr >-----------------------
[INFO] Building MAVEN - Baldr 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[WARNING] The artifact xml-apis:xml-apis:jar:2.0.2 has been relocated to xml-apis:xml-apis:jar:1.0.b2
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.4:prepare-agent (default) @ Baldr ---
[INFO] argLine set to -javaagent:/home/circleci/.m2/repository/org/jacoco/org.jacoco.agent/0.8.4/org.jacoco.agent-0.8.4-runtime.jar=destfile=/home/circl
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ Baldr ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 80 resources
[INFO]
[INFO] --- maven-compiler-plugin:3.5.1:compile (default-compile) @ Baldr ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 54 source files to /home/circleci/project/target/classes
[INFO] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/ihm/PanelFiles.java: Some input files use or override a deprecated API.
[INFO] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/ihm/PanelFiles.java: Recompile with -Xlint:deprecation for details.
[INFO] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/formattage/CommentParser.java: Some input files use unchecked or unsafe operations.
[INFO] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/formattage/CommentParser.java: Recompile with -Xlint:unchecked for details.
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  2.222 s
[INFO] Finished at: 2022-03-03T05:36:29Z
[INFO] ------------------------------------------------------------------------

CircleCI received exit code 0
```



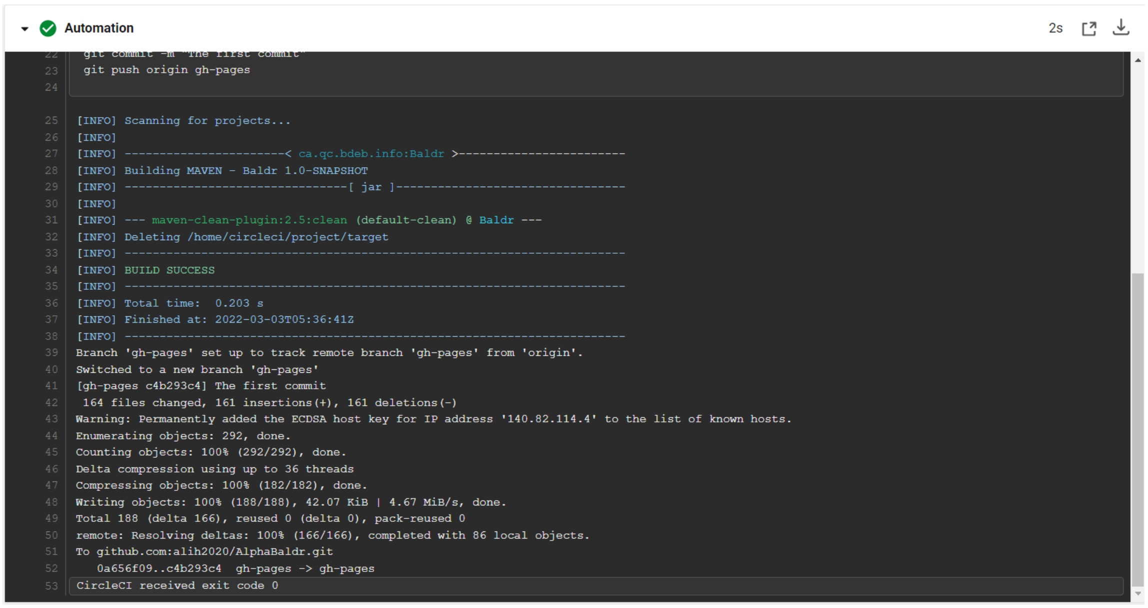
Test 4s

```
Running ca.qc.bdeb.baldr.noyau.SommaireTest
Tests run: 8, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 sec
Running ca.qc.bdeb.baldr.noyau.GestionnaireResultatsTest
Tests run: 8, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 sec
Running ca.qc.bdeb.baldr.noyau.FiltreTest
Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 sec
Running ca.qc.bdeb.baldr.noyau.ListeResultatsTest
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 sec
Running ca.qc.bdeb.baldr.utils.CorrespondanceTest
Tests run: 13, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.003 sec
Running ca.qc.bdeb.baldr.utils.ArrayUtilTest
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 sec
Running ca.qc.bdeb.baldr.formattage.ExtrairePDFTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 1, Time elapsed: 0 sec
Running ca.qc.bdeb.baldr.formattage.CommentParserTest
Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.003 sec
Running SaveAndRestoreTest
[ERREUR] Erreur à la suppression de
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 sec

Results :

Tests run: 139, Failures: 0, Errors: 0, Skipped: 3

[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  3.859 s
[INFO] Finished at: 2022-03-03T05:36:34Z
[INFO] ------------------------------------------------------------------------

CircleCI received exit code 0
```



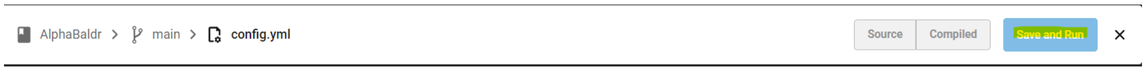
Generate JavaDoc 6s

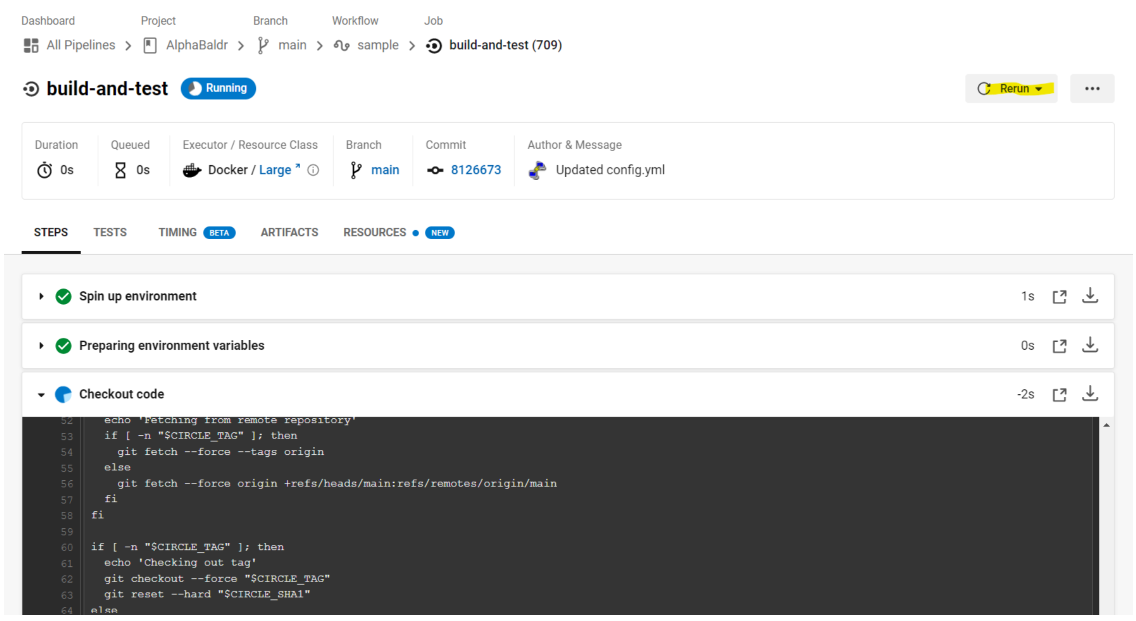
```
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Task.java:281: warning: no description for @return
[WARNING] * @return
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Task.java:479: warning: no description for @param
[WARNING] * @param fichiers
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Task.java:490: warning: no description for @param
[WARNING] * @param nouveauxFichiers
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Task.java:1387: warning: no description for @param
[WARNING] * @param prefs
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Task.java:1414: warning: no description for @param
[WARNING] * @param prefs
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Sommaire.java:24: warning: no description for @param
[WARNING] * @param tachesComposantes
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Sommaire.java:43: warning: no description for @param
[WARNING] * @param tache
[WARNING] ^
[WARNING] /home/circleci/project/src/main/java/ca/qc/bdeb/baldr/noyau/Sommaire.java:55: warning: no description for @return
[WARNING] * @return
[WARNING] ^
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  5.284 s
[INFO] Finished at: 2022-03-03T05:36:40Z
[INFO] ------------------------------------------------------------------------

CircleCI received exit code 0
```



```
  git commit -m "The first commit"
  git push origin gh-pages


[INFO] Scanning for projects...
[INFO]
[INFO] ----------------------< ca.qc.bdeb.info:Baldr >-----------------------
[INFO] Building MAVEN - Baldr 1.0-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ Baldr ---
[INFO] Deleting /home/circleci/project/target
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  0.203 s
[INFO] Finished at: 2022-03-03T05:36:41Z
[INFO] ------------------------------------------------------------------------
Branch 'gh-pages' set up to track remote branch 'gh-pages' from 'origin'.
Switched to a new branch 'gh-pages'
[gh-pages c4b293c4] The first commit
 164 files changed, 161 insertions(+), 161 deletions(-)
Warning: Permanently added the ECDSA host key for IP address '140.82.114.4' to the list of known hosts.
Enumerating objects: 292, done.
Counting objects: 100% (292/292), done.
Delta compression using up to 36 threads
Compressing objects: 100% (182/182), done.
Writing objects: 100% (188/188), 42.07 KiB | 4.67 MiB/s, done.
Total 188 (delta 166), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (166/166), completed with 86 local objects.
To github.com:alih2020/AlphaBaldr.git
   0a656f09..c4b293c4  gh-pages -> gh-pages
CircleCI received exit code 0
```

8- Run the Project and Rerun



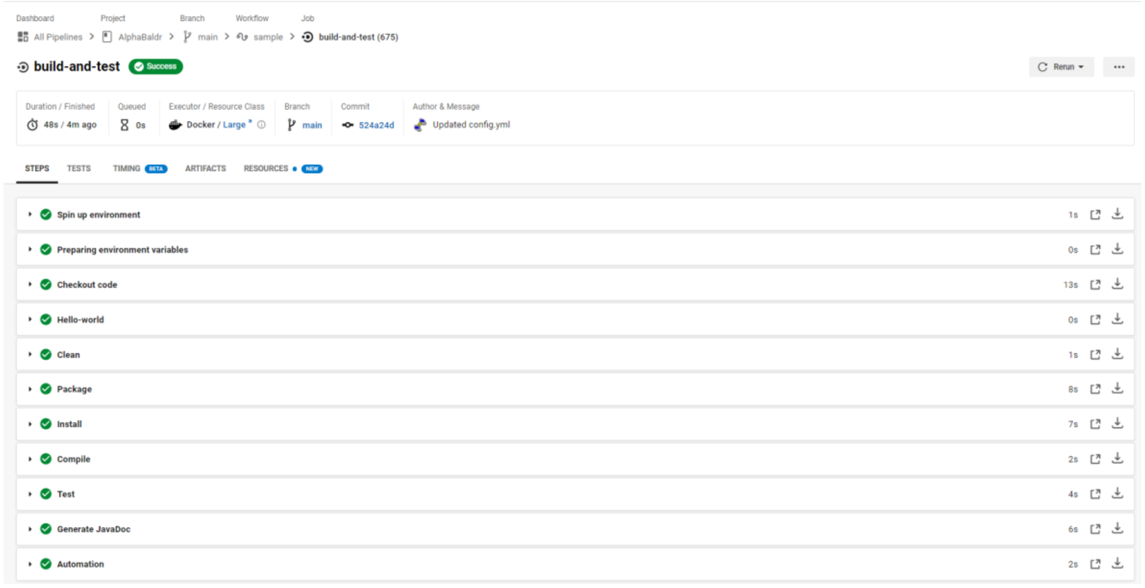


Duration	Queued	Executor / Resource Class	Branch	Commit	Author & Message
0s	0s	Docker / Large	main	8126673	Updated config.yml

```
  echo 'Fetching from remote repository'
  if [ -n "$CIRCLE_TAG" ]; then
    git fetch --force --tags origin
  else
    git fetch --force origin +refs/heads/main:refs/remotes/origin/main
  fi
fi

if [ -n "$CIRCLE_TAG" ]; then
  echo 'Checking out tag'
  git checkout --force "$CIRCLE_TAG"
  git reset --hard "$CIRCLE_SHA1"
else
```

Proof that JAVADOC will now be generated as the JAVA code changes

Automation



Dashboard: All Pipelines > Project: AlphaBaldr > Branch: main > Workflow: sample > Job: build-and-test (675)

build-and-test Success

Rerun ···

Duration / Finished	Queued	Executor / Resource Class	Branch	Commit	Author & Message
48s / 4m ago	0s	Docker / Large	main	524a24d	Updated config.yml

STEPS TESTS TIMING BETA ARTIFACTS RESOURCES NEW

Spin up environment	1s
Preparing environment variables	0s
Checkout code	13s
Hello-world	0s
Clean	1s
Package	8s
Install	7s
Compile	2s
Test	4s
Generate JavaDoc	6s
Automation	2s

Content of the automation file config.yml

```
# Use the latest 2.1 version of CircleCI pipeline process engine.
# See: https://circleci.com/docs/2.0/configuration-reference

version: 2.1

# Define a job to be invoked later in a workflow.
# See: https://circleci.com/docs/2.0/configuration-reference/#jobs

jobs:

  # Below is the definition of your job to build and test your app, you can rename and customize it as you want.

  build-and-test:

    # These next lines define a Docker executor: https://circleci.com/docs/2.0/executor-types/
    # You can specify an image from Dockerhub or use one of our Convenience Images from CircleCI's Developer Hub.
    # Be sure to update the Docker image tag below to openjdk version of your application.
    # A list of available CircleCI Docker Convenience Images are available here:
https://circleci.com/developer/images/image/cimg/openjdk

    docker:

      - image: cimg/openjdk:11.0

        auth:

          username: mydockerhub-user

          password: $DOCKERHUB_PASSWORD

    # Add steps to the job

    # See: https://circleci.com/docs/2.0/configuration-reference/#steps

    steps:



      # Checkout le code comme première étape du projet.

      - checkout

      # Testez un message dans echo

      - run:

          name: Hello-world
          command: echo "Hello World"

      # Utilisez la commande mvn clean et mvn package asthe comme les phases standard de maven

      - run:

          name: Clean
          command: mvn clean

      - run:

          name: Package
          command: mvn package
```

```
# Après installez, compilez and démarrer vos tests!

      - run:

          name: Install
          command: mvn install

      - run:

          name: Compile
          command: mvn compile

      - run:

          name: Test
          command: mvn test

        # Générez le JavaDoc

      - run:

         name: Generate JavaDoc
         command: mvn javadoc:javadoc

      - run:

          name: Automation

          command: |

              # Créer un fichier temporaire dans le répertoire tmp

               cd ../../../tmp
               mkdir fichierTemporaire

               # Copier les fichiers apidocs du projet dans le fichier temporaire

               mv ../home/circleci/project/target/site/apidocs fichierTemporaire/
               cd fichierTemporaire/apidocs

               # Retourner dans le projet git avant de changer de branche

               cd ../../../home/circleci/project

               # Nétoyyer le contenu du branche main pour pouvoir changer de branche

               mvn clean
               # Changer de branche
               git switch gh-pages

         # Allez dans le fichier temporaire pour pouvoir récupérer les fichiers javadoc et les copiers dans le répertoire apidocs

               cp -r ../../../tmp/fichierTemporaire/apidocs apidocs/

               # Effectuez le commit pour apporter et autorisez les modifications lors de l'automatisation

               git add .
              # Entrez votre nom et email pour la configuration
               git config user.email hamzaalih@hotmail.com
               git config user.name    "Hamza Ali"
               git commit -m "The first commit"
               git push origin gh-pages
```

```
See: https://circleci.com/docs/2.0/configuration-reference/#workflows

workflows:

  sample: # This is the name of the workflow, feel free to change it to better match your workflow.
    # Inside the workflow, you define the jobs you want to run.

    jobs:

      - build-and-test
```

This might help you

Enter all require documents in the branch main
Enter all require document in the branch gh-pages (git switch)

git pull = to pull a code from GitHub

git add . = to add a code in particular branch

git commit -m "message" = to commit the code after staging phase

git push origin [branch-name] = to push code into GitHub

mvn clean	**= clean the maven commands**
mvn install	**= install before analysing the project**
mvn deploy	**= deploy the code**
mvn package	**= establish the pakages**
mvn compile	**= compile the code of the project**
mvn test	**= test the project's code**
mvn javadoc:javadoc	**= generates javadoc of the project's code**

Login into Cercle CI by identifying with GitHub credentials in order to merge it with the continuous tool Circle CI