Jonnathan Simbaña

Repositorio git: https://github.com/jonathans2200/proyecto.git

- 1. Generar una imagen de Docker
 - a. .\mvnw clean pacakge jib:dockerBuild

```
[INFO] Please see https://github.com/GoogleContainerTools/jib/blob/master/docs/pri
disabling this update check.
[INFO]
[INFO] Executing tasks:
[INFO] [=
                                 =====] 100.0% complete
[INFO]
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 02:45 min
[INFO] Finished at: 2024-08-03T14:57:04-05:00
[INFO]
PS C:\Users\jonat\Desktop\java_sec_demo-main-main>
```

- Levantamos el contendedor
 - a. docker-compose up

```
set on action api/plugins/download
sonarqube | 2024.08.03 20:02:17 WARN web[][o.s.a.s.w.WebService$Action] The response example is not
set on action api/analysis_cache/get
sonarqube | 2024.08.03 20:02:17 WARN web[][o.s.a.s.w.WebService$Action] The response example is not
set on action api/alm_integrations/check_pat
           2024.08.03 20:02:17 WARN web[][o.s.a.s.w.WebService$Action] The response example is not
set on action api/push/sonarlint_events
           2024.08.03 20:02:17 INFO web[][o.s.s.a.p.ExpiredSessionsCleaner] Purge of expired session
 tokens has removed 0 elements
             2024.08.03 20:02:17 INFO web[][o.s.s.a.p.ExpiredSessionsCleaner] Purge of expired SAML m
essage ids has removed 0 elements
           2024.08.03 20:02:17 INFO web[][o.s.s.n.NotificationDaemon] Notification service started
(delay 60 sec.)
            2024.08.03 20:02:17 INFO web[][o.s.s.t.TelemetryDaemon] Sharing of SonarQube statistics
is enabled.
          2024.08.03 20:02:17 INFO web[][o.s.s.s.GeneratePluginIndex] Generate scanner plugin inde
             2024.08.03 20:02:17 INFO web[][o.s.s.s.RegisterMetrics] Register metrics
             2024.08.03 20:02:17 INFO web[][o.s.s.q.RegisterQualityGates] Built-in quality gate's con
ditions of [Sonar way] has been updated
           2024.08.03 20:02:17 INFO web[][o.s.s.r.RegisterRules] Register rules
                        provisioning
                                                                         Rui
                            zap
                                                         ghcr.io/zap Rui
                           33b4fe1f12c6 🗇
                            <u>sonarqube</u>
                                                         sonarqube: Rui
                            3e778de00148 🗇
```

- 3. Ingresamos en el enlace
 - a. http://localhost:8080/
- 4. Sacamos la clave

5. /var/jenkins_home/secrets/initialAdminPassword-

```
$ ls
bin dev home lib64 mnt proc run srv tmp var
boot etc lib media opt root sbin sys usr
$ cat /var/jenkins_home/secrets/initialAdminPassword
c9e49667278a4a63ae1dab5a2e3c787c
$ ^X
```

- a.6. Ingresmos los datos
 - a. Correo: jonathans2200@hotmail.com
 - b. Contraseña:admin
- 7. Creamos una tarea dentro de jenkis
- 8. Primer error

- 9.
- a. Instalar el jdk
- b. Definimos el jdk y que se instale
- c.



1. Instalar Maven



Error 1 ingresar el plugin de Maven Solución: Instalar el plugin dentro de Jenkins



Error 2 Definir el java home

Solución: luego de tener instalado el java hay q definir la ruta donde está instalado el java_home

```
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withMaven
[withMaven] WARNING: You are running an old version of Maven (3.6.3), you should update to at least 3.8.x
[Pipeline] {
[Pipeline] sh
+ mvn package
The JAVA_HOME environment variable is not defined correctly
This environment variable is needed to run this program
NB: JAVA_HOME should point to a JDK not a JRE
[Pipeline] }
[Pipeline] // withMaven
[Pipeline] // withEnv
[Pipeline] // withEnv
[Pipeline] }
```

Non	nbre
jdk	c-11
JAVA	A_HOME
/va	ar/jenkins_home/tools/hudson.model.JDK/jdk-11/amazon-corretto-11.0.24.8.1-linux-x64

Error 3: Erros dependencia check Solución: dentro de Jenkins instalar en el pluging owasp dependencia check

```
[INFO] [jenkins-event-spy] Generated /var/jenkins_home/workspace/demoCICO@tmp/withMaven8542d188/maven-spy-20240803-205723-10515902571527413035403.log
[ERROR] Failed to execute goal org.owasp:dependency-check-maven:6.1.1:check (default-cli) on project spring-boot-demo:
[ERROR] One or more dependencies were identified with vulnerabilities that have a CVSS score greater than or equal to '10.0':
[ERROR]
[ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ERROR] [ER
```

Error 4 Spot bugs

Solución: dentro del Jenkins instalar el plugin warning y el plugin html

Also: org.jenkinsci.plugins.workflow.actions.ErrorAction\$ErrorId: aa12ff13-a2c2-45bf-ac06-0f863f4ef90a java.lang.NoSuchMethodError: No such DSL method 'spotBugs' found among steps [archive, bat, build, catchError, cenvVarsForTool, error, fileExists, findBuildScans, getContext, git, input, isUnix, junit, library, libraryResour

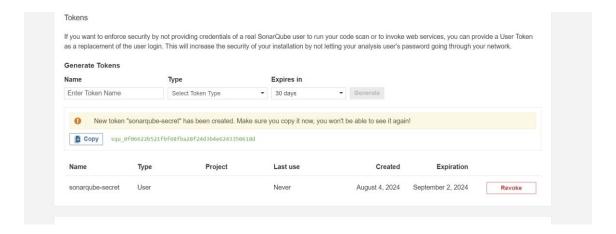
Error 5 falta del plugin sonarqube

[Pipeline] End of Pipeline
Also: org.jenkinsci.plugins.workflow.actions.ErrorActionSErrorId: a2ebf863-b7bd-4664-97e4-a9f80bf49567
java.lang.louSourMethodError: No such DSL method 'withSonarQubeEnv' found among steps [archive, bat, build, catchError, checkout, deleteDir, dependencyCheckPublisher, dir, echo, emailext, emailextrecipients, envVarsforTool, error, fileExists, findBuildScans, getContext, git, input, isUnix, junit, library, libraryResource, load, mail, milestone, node, parallel, powershell, properties, publishThecks, publishTML, publishIssues, pwd, pwsh, readFile, readTrusted, recordIssues, resolveScm, retry, scanForIssues, script, sh, sleep, stage, stash, step, timeout, timestamps, tm, tool, unarchive, unstable, unstabh, validateDeclarativePipeline, waitForBuild, waitUntil, warnError, withChecks, withContext, withCredentials, withEnv, withGrade, withMaven, wrap, writefile, ws] or symbols [CrossCoreEmbeddedStudioParser, GitUsernamePassword, PVSStudio, acuCobol, agent, ajc, all, allBranchesSame, allof, always, analysisParser, androidLintParser, ansibleLint, ant, antFrombpache, antOutcome, antTarget, any, anyOf, apiToken, actionscine, action actio

Solución: Instalación del plugin sonarqube for Jenkins

Luego se presenta otro error que es por la configuración del Jenkins con el sonarqube

Lo primero que se tiene que hacer es generar un token dentro de sonarqube Con el nombre sonarqube-secret

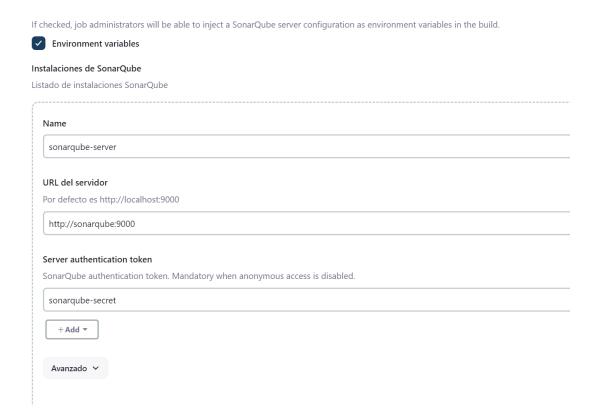


Dentro del Jenkins se tiene que configurar el sonarcube

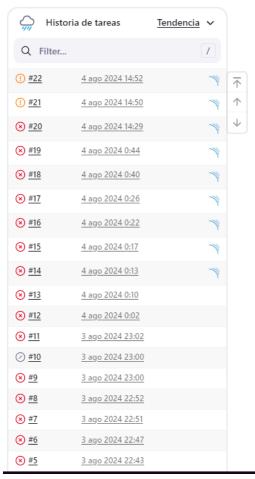
Primero se tiene que configurar el nombre que tiene que ser el mismo que está definido dentro del archivo Jenkins

Luego se tiene que poner el url del servidor del sonarqube

Luego se tiene que registrar el token con el que se creó dentro del sonarqube lo importante que el id sea el mismo con el que se definió dentro del Jenkins file



Dentro de mi proyecto tuve 20 iteraciones pero una configuración dentro de mi Maven me daba error y me salía inestable



Tuve que volver a crear otra imagen y levantar otro servicio



) < Build #6



