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

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

```
[INFO] Please see https://github.com/GoogleContainerTools/jib/blob/master/docs/pr
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>
```

2. 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
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/push/sonarlint_events
sonarqube | 2024.08.03 20:02:17 INFO web[][o.s.s.a.p.ExpiredSessionsCleaner] Purge of expired sessio
n tokens has removed 0 elements
sonarqube | 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
sonarqube | 2024.08.03 20:02:17 INFO web[][o.s.s.n.NotificationDaemon] Notification service started
(delay 60 sec.)
sonarqube | 2024.08.03 20:02:17 INFO web[][o.s.s.t.TelemetryDaemon] Sharing of SonarQube statistics
is enabled.
sonarqube | 2024.08.03 20:02:17 INFO web[][o.s.s.s.GeneratePluginIndex] Generate scanner plugin inde
x
sonarqube | 2024.08.03 20:02:17 INFO web[][o.s.s.s.RegisterMetrics] Register metrics
sonarqube | 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
sonarqube | 2024.08.03 20:02:17 INFO web[][o.s.s.r.RegisterRules] Register rules
```

<input type="checkbox"/>	▼		provisioning	Rui
<input type="checkbox"/>			zap 33b4fe1f12c6 	<a href="https://ghcr.io/zap">ghcr.io/zap</a> Rui
<input type="checkbox"/>			sonarqube 3e778de00148 	<a href="https://sonarqube:">sonarqube:</a> Rui

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](mailto:jonathans2200@hotmail.com)
  - b. Contraseña: admin
- 7. Creamos una tarea dentro de jenkins
- 8. Primer error

```
WorkflowScript: 5: Tool type "jdk" does not have an install of "jdk-11" configured - did you mean "null"? @ line 5, column 9.
jdk 'jdk-11'
^

WorkflowScript: 6: Tool type "maven" does not have an install of "mvn-3.6.3" configured - did you mean "null"? @ line 6, column 11.
maven 'mvn-3.6.3'
^
```

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

☒ Instalar automáticamente ?

⌵ Extraer \*.zip/\*.tar.gz ?

Dirección web del archivo ejecutable ?

Directorio donde extraer el archivo ?

Avanzado ▾

Añadir un instalador ▾

1. Instalar Maven



**Analizar JDK**

**JDK**

Nombre

jdk-11

JAVA\_HOME

/var/jenkins\_home/tools/hudson.model.JDK/jdk-11/amazon-corretto-11.0.24.8.1-linux-x64

☐ Instalar automáticamente ?

### Error 3: Erros dependencia check

Solución: dentro de Jenkins instalar en el plugging owasp dependencia check

```
[INFO] [jenkins-event-spy] Generated /var/jenkins_home/workspace/demoCID@tmp/withMaven6542d188/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]
[ERROR] One or more dependencies were identified with vulnerabilities that have a CVSS score greater than or equal to '10.0':
[ERROR]
[ERROR] log4j-api-2.13.3.jar: CVE-2021-44228
[ERROR]
[ERROR] See the dependency-check report for more details.
[ERROR] -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoFailureException
[Pipeline] }
```

### 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, c
envVarsForTool, 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.ErrorAction$ErrorId: a2ebf863-b7bd-4664-97e4-a9f68bf49567
java.lang.NoSuchMethodError: No such DSL method 'withSonarQubeEnv' found among steps [archive, bat, build, catchError, checkout, deleteDir, dependencyCheckPublisher, dir,
echo, emailText, emailTextrecipients, envVarsForTool, error, fileExists, findBuildScans, getContext, git, input, isUnix, junit, library, libraryResource, load, mail,
milestone, node, parallel, powershell, properties, publishChecks, publishHTML, publishIssues, pwd, pwsh, readFile, readTrusted, recordIssues, resolveScm, retry,
scanForIssues, script, sh, sleep, stage, stash, step, timeout, timestamps, tm, tool, unarchive, unstable, unstash, validateDeclarativePipeline, waitForBuild, waitUntil,
warnError, withChecks, withContext, withCredentials, withEnv, withGradle, withMaven, wrap, writeFile, ws] or symbols [CrossCoreEmbeddedStudioParser, GitUsernamePassword,
PVSSStudio, acuCobol, agent, ajc, all, allBranchesSame, allOf, always, analysisParser, androidLintParser, ansibleLint, ant, antFromApache, antOutcome, antTarget, any, anyOf,
apiToken, apiTokenProperty, aquaScanner, architecture, archiveArtifacts, armCc, artifactManager, artifactsPublisher, assemble, authorInChangelog, authorizationMatrix,
axivion, axivionSuite, batchFile, bitbucket, bitbucketServer, bluepearl, booleanParam, brakeman, branch, brokenBuildSuspects, brokenTestsSuspects, browser, buckminster,
buildButton, buildDiscarder, buildDiscarders, buildRetention, buildSingleRevisionOnly, buildUser, buildingTag, builtInNode, cadence, cargo, caseInsensitive, caseSensitive,
```

Solución: Instalación del plugin sonarqube for Jenkins

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

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

Tokens

If you want to enforce security by not providing credentials of a real SonarQube user to run your code scan or to invoke web services, you can provide a User Token as a replacement of the user login. This will increase the security of your installation by not letting your analysis user's password going through your network.

Generate Tokens

Name

Type

Expires in

Enter Token Name

Select Token Type

30 days

Generate

New token "sonarcube-secret" has been created. Make sure you copy it now, you won't be able to see it again!

Copy

squ\_0f06622b521fbf68fba28f24d3b4e6243350618d

Name	Type	Project	Last use	Created	Expiration	
sonarcube-secret	User		Never	August 4, 2024	September 2, 2024	<div>Revoke</div>

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

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

✓

Environment variables

Instalaciones de SonarQube

Listado de instalaciones SonarQube

Name

sonarcube-server

URL del servidor

Por defecto es http://localhost:9000

http://sonarcube:9000

Server authentication token




























SonarQube authentication token. Mandatory when anonymous access is disabled.

sonarcube-secret



+ Add



Avanzado











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


Historia de tareas		Tendencia
Filter...		/
 #22	<a href="#">4 ago 2024 14:52</a>	
 #21	<a href="#">4 ago 2024 14:50</a>	
 #20	<a href="#">4 ago 2024 14:29</a>	
 #19	<a href="#">4 ago 2024 0:44</a>	
 #18	<a href="#">4 ago 2024 0:40</a>	
 #17	<a href="#">4 ago 2024 0:26</a>	
 #16	<a href="#">4 ago 2024 0:22</a>	
 #15	<a href="#">4 ago 2024 0:17</a>	
 #14	<a href="#">4 ago 2024 0:13</a>	
 #13	<a href="#">4 ago 2024 0:10</a>	
 #12	<a href="#">4 ago 2024 0:02</a>	
 #11	<a href="#">3 ago 2024 23:02</a>	
 #10	<a href="#">3 ago 2024 23:00</a>	
 #9	<a href="#">3 ago 2024 23:00</a>	
 #8	<a href="#">3 ago 2024 22:52</a>	
 #7	<a href="#">3 ago 2024 22:51</a>	
 #6	<a href="#">3 ago 2024 22:47</a>	
 #5	<a href="#">3 ago 2024 22:43</a>	


Tuve que volver a crear otra imagen y levantar otro servicio

 **Historia de tareas** Tendencia 

 <b>#6</b>	<u>4 ago 2024 23:09</u>		
 <b>#5</b>	<u>4 ago 2024 20:07</u>		
 <b>#4</b>	<u>4 ago 2024 20:05</u>		
 <b>#3</b>	<u>4 ago 2024 20:02</u>		
 <b>#2</b>	<u>4 ago 2024 19:59</u>		
 <b>#1</b>	<u>4 ago 2024 19:55</u>		

 Atom feed Para Todos

 Atom feed para los errores

## < Build #6



