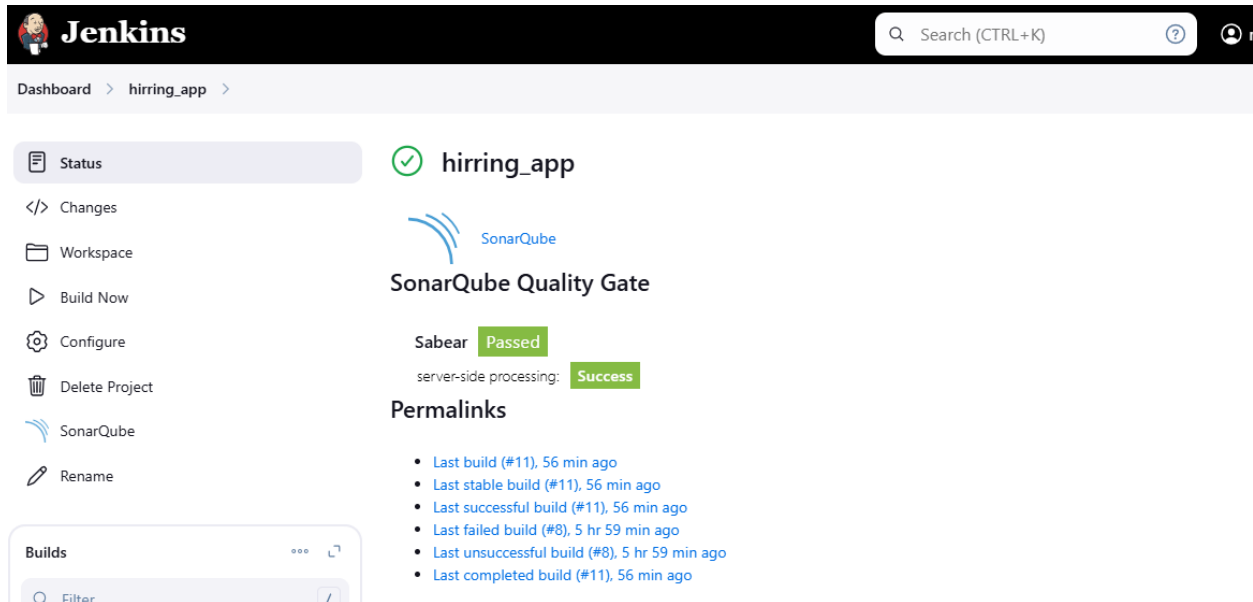


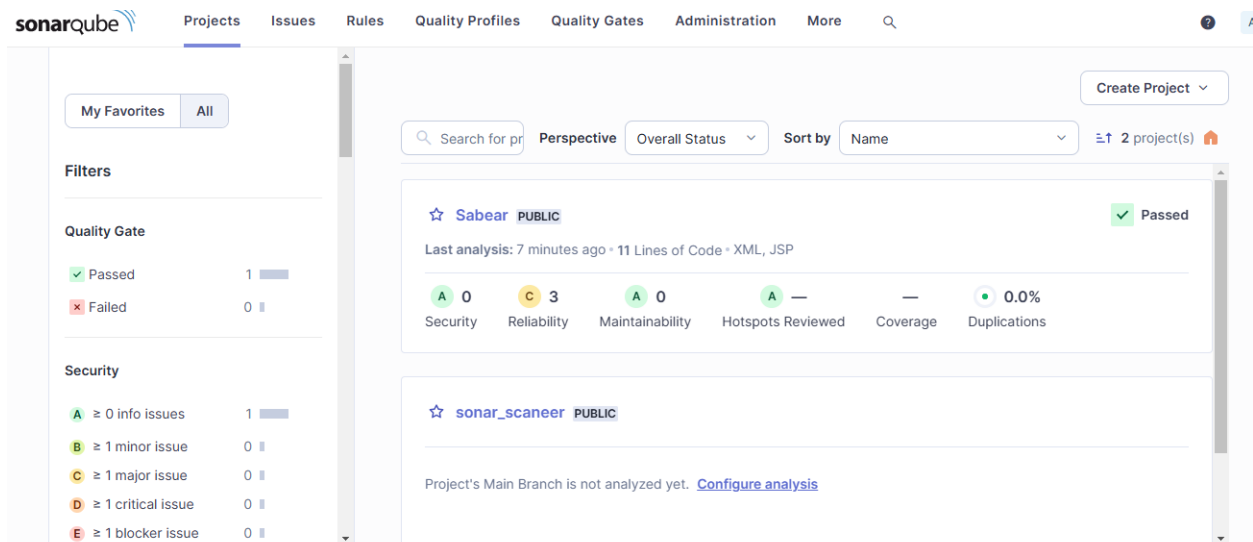
# Jenkin-04

1) Setup jenkins CICD pipeline using freestyle job using Docker containers using below code. <https://github.com/betawins/hiring-app.git> Stages: 1) Git Clone



The Jenkins Dashboard for the 'hiring\_app' project shows a successful build status. The left sidebar contains navigation links: Status, Changes, Workspace, Build Now, Configure, Delete Project, SonarQube, and Rename. The main content area displays the 'hiring\_app' job with a green checkmark icon. Below the job name, the SonarQube Quality Gate is shown with a 'Passed' status. A 'Sabear' build is highlighted with a 'Passed' status, and the server-side processing is marked as 'Success'. A 'Permalinks' section lists various build links, including the last build (#11), last stable build (#11), last successful build (#11), last failed build (#8), last unsuccessful build (#8), and last completed build (#11).

## 2) Sonarqube Integration



The SonarQube Projects page displays a list of projects. The left sidebar shows filters for Quality Gate and Security. The main content area shows a list of projects, including 'Sabear' and 'sonar\_scanner'. The 'Sabear' project is highlighted, showing a 'Passed' status and a last analysis time of 7 minutes ago. The project details include a table of metrics: Security (0), Reliability (3), Maintainability (0), Hotspots Reviewed (0), Coverage (0.0%), and Duplications (0.0%). The 'sonar\_scanner' project is also listed, showing a 'Not analyzed' status.

## 3) Maven Compilation

```

apache-maven-3.9.9  apache-maven-3.9.9-bin.tar.gz  aws  sonar-scanner-cli-4.6.2.2472-linux.zip  sonar_scanner
[root@ip-172-31-16-135 opt]# cd apache-maven-3.9.9/
[root@ip-172-31-16-135 apache-maven-3.9.9]# ls
LICENSE NOTICE README.txt bin boot conf lib
[root@ip-172-31-16-135 apache-maven-3.9.9]# cd bin
[root@ip-172-31-16-135 bin]# ls
m2.conf mvn mvn.cmd mvnDebug mvnDebug.cmd mvnyjp
[root@ip-172-31-16-135 bin]# pwd
/opt/apache-maven-3.9.9/bin
[root@ip-172-31-16-135 bin]# cd
[root@ip-172-31-16-135 ~]# vi .bash_profile
[root@ip-172-31-16-135 ~]# source ~/.bash_profile
-bash: PATH=/root/.local/bin:/root/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/root/bin:/opt/apache-maven-3.9.9/bin
in: No such file or directory
[root@ip-172-31-16-135 ~]# vi .bash_profile
[root@ip-172-31-16-135 ~]# source ~/.bash_profile
-bash: source: /root/: is a directory
[root@ip-172-31-16-135 ~]# mvn -version
[root@ip-172-31-16-135 ~]# nd
[root@ip-172-31-16-135 ~]# vi .bash_profile
[root@ip-172-31-16-135 ~]# source ~/.bash_profile
-bash: source: /root/: is a directory
[root@ip-172-31-16-135 ~]# source ~/.bash_profile
[root@ip-172-31-16-135 ~]# echo MVN_HOME
MVN_HOME
[root@ip-172-31-16-135 ~]# echo $MVN_HOME
/opt/apache-maven-3.9.9/bin
[root@ip-172-31-16-135 ~]# mvn --version
Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfc9dc97d260186937)
Maven home: /opt/apache-maven-3.9.9
Java version: 17.0.13, vendor: Amazon.com Inc., runtime: /usr/
lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.115-126.197.amzn2023.x86_64",
arch: "amd64", family: "unix"
[root@ip-172-31-16-135 ~]# cd /var/lib
[root@ip-172-31-16-135 lib]# ls

```

```

updates
userContent
users
workspace
[root@ip-172-31-16-135 jenkins]# cd.m2
-bash: cd.m2: command not found
[root@ip-172-31-16-135 jenkins]# cd .m2
[root@ip-172-31-16-135 .m2]# ll
total 0
drwxr-xr-x. 10 jenkins jenkins 112 Dec  3 08:03 repository
[root@ip-172-31-16-135 .m2]# cd repository/
[root@ip-172-31-16-135 repository]# ll
total 0
drwxr-xr-x.  3 jenkins jenkins  25 Dec  3 08:03 aopalliance
drwxr-xr-x.  4 jenkins jenkins  40 Dec  3 08:03 com
drwxr-xr-x.  3 jenkins jenkins  24 Dec  3 08:03 commons-io
drwxr-xr-x.  3 jenkins jenkins  22 Dec  3 08:03 in
drwxr-xr-x.  5 jenkins jenkins  56 Dec  3 08:03 javax
drwxr-xr-x.  3 jenkins jenkins  19 Dec  3 08:03 junit
drwxr-xr-x.  3 jenkins jenkins  18 Dec  3 08:03 net
drwxr-xr-x. 12 jenkins jenkins 144 Dec  3 08:03 org
[root@ip-172-31-16-135 repository]# |



```

```
[INFO]
[INFO] --- war:3.3.1:war (default-war) @ hiring ---
[INFO] Packaging webapp
[INFO] Assembling webapp [hiring] in [/var/lib/jenkins/workspace/hirring_app/target/hiring]
[INFO] Processing war project
[INFO] Copying webapp resources [/var/lib/jenkins/workspace/hirring_app/src/main/webapp]
[INFO] Building war: /var/lib/jenkins/workspace/hirring_app/target/hiring.war
[INFO]
[INFO] --- install:3.1.2:install (default-install) @ hiring ---
[INFO] Installing /var/lib/jenkins/workspace/hirring_app/pom.xml to
/var/lib/jenkins/.m2/repository/in/javahome/hiring/0.1/hiring-0.1.pom
[INFO] Installing /var/lib/jenkins/workspace/hirring_app/target/hiring.war to
/var/lib/jenkins/.m2/repository/in/javahome/hiring/0.1/hiring-0.1.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.362 s
[INFO] Finished at: 2024-12-03T09:00:39Z
[INFO] -----
Finished: SUCCESS
```

#### 4) Nexus Artifactory


```
nexus-3.0.2-02/system/org/yaml/snakeyaml/1.17/
nexus-3.0.2-02/system/org/yaml/snakeyaml/1.17/snakeyaml-1.17.jar
nexus-3.0.2-02/system/se/
nexus-3.0.2-02/system/se/sawano/
nexus-3.0.2-02/system/se/sawano/java/
nexus-3.0.2-02/system/se/sawano/java/alphanumeric-comparator/
nexus-3.0.2-02/system/se/sawano/java/alphanumeric-comparator/1.4.1/
nexus-3.0.2-02/system/se/sawano/java/alphanumeric-comparator/1.4.1/alphanumeric-comparator-1.4.1.jar
nexus-3.0.2-02/system/settings.xml
[root@ip-172-31-94-152 opt]# ls
aws nexus-3.0.2-02 nexus-3.0.2-02-unix.tar.gz
[root@ip-172-31-94-152 opt]# mv /opt/nexus-3.0.2-02 /opt/nexus
[root@ip-172-31-94-152 opt]# ls
aws nexus nexus-3.0.2-02-unix.tar.gz
[root@ip-172-31-94-152 opt]#
```

← → ↻ Not secure 3.87.223.108:8081 ☆ ⓘ

**Nexus Repository Manager** OSS 3.0.2-02   Search components

**Browse** Welcome Search Browse Assets Components



**Welcome** Welcome to Nexus Repository Manager



⚠ This version of Sonatype Nexus Repository is vulnerable to a critical security vulnerability. See [the KB article](#) for details.  
To remediate, we recommend [immediate upgrade](#) to 3.68.1 or later.

⚠ This version of Sonatype Nexus Repository is vulnerable to a critical remote code execution security vulnerability.  
We recommend [immediate upgrade](#) to 3.25.1 or later, especially if this is a public instance.

← → ↻ Not secure 54.161.99.20:8081/#browse/browse/components:hiring\_app:5c50d09b73fd3c5edd9446dd1d23a80 ☆

**Nexus Repository Manager** OSS 3.0.2-02   Search components




**Browse** Welcome Search Browse Assets Components

**Components** / hiring\_app / hiring

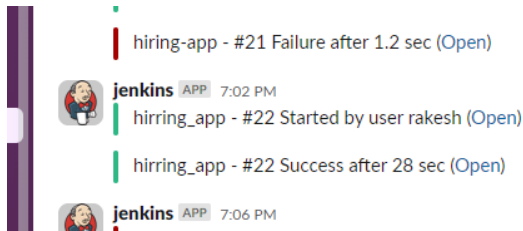
Repository	hiring_app	Group	In.javahome	Most popular version
Format	maven2	Name	hiring	Age
		Version	0.1	Popularity

🗑 Delete component



Name ↑

-  in/javahome/hiring/0.1/hiring-0.1.war
-  in/javahome/hiring/0.1/hiring-0.1.war.md5
-  in/javahome/hiring/0.1/hiring-0.1.war.sha1

## 5) Slack Notification



## 6) Deploy On tomcat



### Server Status

Manager							
List Applications	HTML Manager Help		Manager Help		Complete Server Status		

Server Information							
Tomcat Version	JVM Version	JVM Vendor	OS Name	OS Version	OS Architecture	Hostname	IP Address
Apache Tomcat/9.0.97	1.8.0_432-b06	Amazon.com Inc.	Linux	6.1.115-126.197.amzn2023.x86_64	amd64	ip-172-31-29-209.ec2.internal	172.31.29.209

### JVM

Free Memory: 12.43 MiB Total Memory: 39.09 MiB Max Memory: 230.12 MiB

Memory Pool	Type	Initial	Total	Maximum	Used
Eden Space	Heap memory	4.31 MiB	10.87 MiB	63.56 MiB	1.61 MiB (2%)
Survivor Space	Heap memory	0.50 MiB	1.31 MiB	7.87 MiB	1.31 MiB (16%)
Tenured Gen	Heap memory	10.68 MiB	26.91 MiB	158.68 MiB	23.74 MiB (14%)
Code Cache	Non-heap memory	2.43 MiB	8.06 MiB	240.00 MiB	7.67 MiB (3%)
Compressed Class Space	Non-heap memory	0.00 MiB	3.00 MiB	1024.00 MiB	2.81 MiB (0%)
Metaspace	Non-heap memory	0.00 MiB	28.00 MiB	-0.00 MiB	27.06 MiB

```
Repository:hiring_app
Uploading: http://54.161.99.20:8081/repository/hiring_app/in/javahome/hiring/0.1/hiring-0.1.war
100 % completed (1.7 kB / 1.7 kB).
Uploaded: http://54.161.99.20:8081/repository/hiring_app/in/javahome/hiring/0.1/hiring-0.1.war (1.7 kB at 9.2 kB/s)
Uploading artifact hiring.war completed.
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying /var/lib/jenkins/workspace/hiring_app/target/hiring.war to container Tomcat 9.x
Remote with context null
[/var/lib/jenkins/workspace/hiring_app/target/hiring.war] is not deployed. Doing a fresh deployment.
Deploying [/var/lib/jenkins/workspace/hiring_app/target/hiring.war]
[Slack Notifications] found #22 as previous completed, non-aborted build
[Slack Notifications] will send OnSuccessNotification because build matches and user preferences allow it
Finished: SUCCESS
```