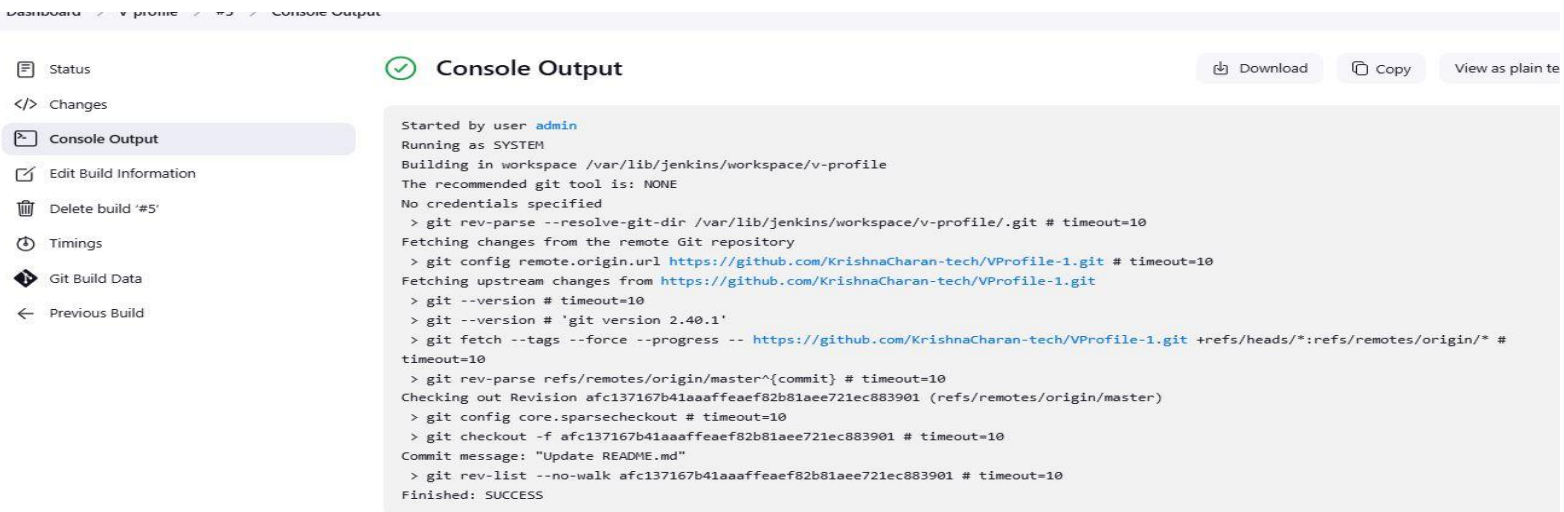
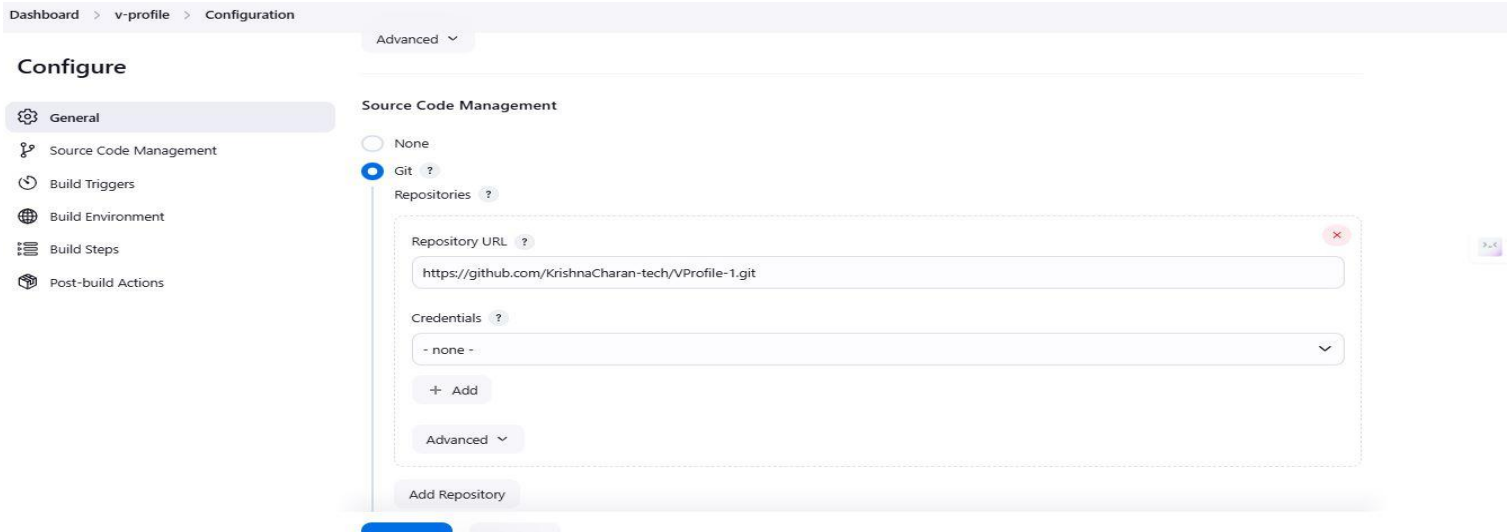


Jenkins -03

- 1) Create one jenkins job using the below code and create three stages.
stage1: Git clone to download the source code.
stage2: Sonarqube Integration to check the quality of code
stage3: Slack Integration to send the alerts to slack.

[URL: https://github.com/betawins/VProfile-1.git](https://github.com/betawins/VProfile-1.git)



```
[root@ip-172-31-19-218 workspace]# cd ~
[root@ip-172-31-19-218 ~]# cd /var/lib/jenkins/workspace/
[root@ip-172-31-19-218 workspace]# ls
v-profile
[root@ip-172-31-19-218 workspace]# cd v-profile/
[root@ip-172-31-19-218 v-profile]# ls
ansible azure-pipelines.yml Dockerfile pom.xml README.md src
[root@ip-172-31-19-218 v-profile]#
```

```

[ec2-user@ip-172-31-21-161 bin]$ ls
jsw-license linux-x86-32 linux-x86-64 macosx-universal-64 windows-x86-32 windows-x86-64
[ec2-user@ip-172-31-21-161 bin]$ cd linux-x86-64
[ec2-user@ip-172-31-21-161 linux-x86-64]$ ll
total 128
drwxr-xr-x 2 root root      27 Oct 20   2017 lib
-rwxr-xr-x 1 root root    15521 Oct 20   2017 sonar.sh
-rwxr-xr-x 1 root root   111027 Oct 20   2017 wrapper
[ec2-user@ip-172-31-21-161 linux-x86-64]$ cd
[ec2-user@ip-172-31-21-161 ~]$ ls
mysql57-community-release-el7-11.noarch.rpm
[ec2-user@ip-172-31-21-161 ~]$ cd /opt/
[ec2-user@ip-172-31-21-161 opt]$ ls
aws rh sonar sonarqube-6.6.zip
[ec2-user@ip-172-31-21-161 opt]$ sudo chown -R ec2-user:ec2-user sonar
[ec2-user@ip-172-31-21-161 opt]$ ll
total 160500
drwxr-xr-x 4 root root      33 Nov 13  21:48 aws
drwxr-xr-x 2 root root      6 Aug 16  2018 rh
drwxr-xr-x 11 ec2-user ec2-user 141 Oct 20  2017 sonar
-rw-r--r-- 1 root root 164350442 Feb 16  2022 sonarqube-6.6.zip
[ec2-user@ip-172-31-21-161 opt]$ cd sonar/bin/
[ec2-user@ip-172-31-21-161 bin]$ ls
jsw-license linux-x86-32 linux-x86-64 macosx-universal-64 windows-x86-32 windows-x86-64
[ec2-user@ip-172-31-21-161 bin]$ cd linux-x86-64
[ec2-user@ip-172-31-21-161 linux-x86-64]$ ls
lib sonar.sh wrapper
[ec2-user@ip-172-31-21-161 linux-x86-64]$ ./sonar.sh start
Starting SonarQube...
Started SonarQube.
[ec2-user@ip-172-31-21-161 linux-x86-64]$ ./sonar.sh status
SonarQube is running (19650).
[ec2-user@ip-172-31-21-161 linux-x86-64]$

```

Dashboard > v-profile > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps**
- Post-build Actions

JDK to be used for this SonarQube analysis

(Inherit From Job)

Path to project properties ?

Analysis properties ?

```

sonar.projectKey=Sabear
sonar.projectName=Sabear
sonar.projectVersion=1.0
sonar.sources=/var/lib/jenkins/workspace/$JOB_NAME/src/
sonar.binaries=target/classes/com/visualpathit/account/controller/
sonar.junit.reportsPath=target/surefire-reports
sonar.jacoco.reportPath=target/jacoco.exec
sonar.java.binaries=src/main/java/com/visualpathit/account/

```

Additional arguments ?

JVM Options ?

Save

Apply

shboard > v-profile >

Status

Changes

Workspace


Build Now

Configure

Delete Project

SonarQube

Rename

 v-profile

v-profile-job



SonarQube

Permalinks

- Last build (#5), 5 hr 10 min ago
- Last stable build (#5), 5 hr 10 min ago
- Last successful build (#5), 5 hr 10 min ago
- Last completed build (#5), 5 hr 10 min ago

uilds

Filter

oday

#5 7:05 AM

v-profile > #7 > Console Output

```
INFO: Unit Test Coverage Sensor is started
INFO: Integration Test Coverage Sensor is started
INFO: Overall Coverage Sensor is started
INFO: Sensor JavaScript Squid Sensor [javascript] (done) | time=15ms
INFO: Sensor Zero Coverage Sensor
INFO: 1/1 source files have been analyzed
INFO: Sensor Zero Coverage Sensor (done) | time=41ms
INFO: Sensor CPD Block Indexer
INFO: Sensor CPD Block Indexer (done) | time=63ms
INFO: 6 files had no CPD blocks
INFO: Calculating CPD for 10 files
INFO: CPD calculation finished
INFO: Analysis report generated in 191ms, dir size=104 KB
INFO: Analysis reports compressed in 45ms, zip size=45 KB
INFO: Analysis report uploaded in 36ms
INFO: ANALYSIS SUCCESSFUL, you can browse http://3.88.87.209:9000/sonar/dashboard/index/Sabear
INFO: Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
INFO: More about the report processing at http://3.88.87.209:9000/sonar/api/ce/task?id=A2OHTxUpVd1JDeW4PRQ9
INFO: Task total time: 9.627 s
INFO: -----
INFO: EXECUTION SUCCESS
INFO: -----
INFO: Total time: 7.907s
INFO: Final Memory: 10M/113M
INFO: -----
Finished: SUCCESS
```

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration Search for

Sabear

Overview Issues Measures Code Activity Administration

Quality Gate **Passed**

Bugs Vulnerabilities

Leak Period: since previous version started 6 minutes ago

Bugs Vulnerabilities

New Bugs New Vulnerabilities

Code Smells


Debt Code Smells


New Debt New Code Smells


Duplications


Duplications Duplicated Blocks


Duplications on New Code

 **Sai Charan T** 8:38 PM
added an integration to this channel: [jenkins](#)

 **Sai Charan T** 8:38 PM
joined #jenkins-integration.

 **jenkins APP** 8:42 PM
v-profile - #7 Started by user admin ([Open](#))

 **jenkins APP** 8:43 PM
Docker - #11 Success after 26 sec ([Open](#))

 **jenkins APP** 8:45 PM
Slack/Jenkins plugin: you're all set on <http://54.82.103.109:8080/>

v-profile - #10 Started by user admin ([Open](#))

v-profile - #10 Success after 9.3 sec ([Open](#))

2) Create one jenkins job using the below code and create three stages.

stage1: Git clone to download the source code.

stage2: Sonarqube Integration to check the quality of code

stage3: Slack Integration to send the alerts to slack.

URL: <https://github.com/betawins/hiring-app.git>

```
v-profile
[root@ip-172-31-19-218 workspace]# ls
hiring-app  v-profile
[root@ip-172-31-19-218 workspace]#
```

ing-app > #16 > Console Output

Console Output

Download

Copy

View as plain text

put

ormation

#16

a

d

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/hiring-app
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/hiring-app/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/KrishnaCharan-tech/hiring-app.git # timeout=10
Fetching upstream changes from https://github.com/KrishnaCharan-tech/hiring-app.git
> git --version # timeout=10
> git --version # 'git version 2.40.1'
> git fetch --tags --force --progress -- https://github.com/KrishnaCharan-tech/hiring-app.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 9405b107fdffdf68e69fe953ealf9669784f9d6a (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 9405b107fdffdf68e69fe953ealf9669784f9d6a # timeout=10
Commit message: "Update README.md"
> git rev-list --no-walk 9405b107fdffdf68e69fe953ealf9669784f9d6a # timeout=10
[hiring-app] $ /opt/sonar_scanner/bin/sonar-scanner -Dsonar.host.url=http://3.88.87.209:9000/sonar ***** -
Dproject.settings=/opt/sonar_scanner -Dsonar.projectKey=Test -Dsonar.projectName=Charan -Dsonar.jacoco.reportPath=target/jacoco.exec -
Dsonar.projectVersion=1.0 -Dsonar.sources=/var/lib/jenkins/workspace/hiring-app/src/ -
```

y/hiring-app/16/

Dashboard > hiring-app > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Execute SonarQube Scanner

JDK ?

JDK to be used for this SonarQube analysis

(Inherit From Job)

Path to project properties ?

/opt/sonar_scanner/

Analysis properties ?

```
sonar.projectKey=Test
sonar.projectName=Charan
sonar.projectVersion=1.0
sonar.sources=/var/lib/jenkins/workspace/$JOB_NAME/src/
sonar.binaries=target/classes/com/visualpathit/account/controller/
sonar.junit.reportsPath=target/surefire-reports
sonar.jacoco.reportPath=target/jacoco.exec
sonar.java.binaries=src/main/java/com/visualpathit/account/
```

Additional arguments ?

Save

Apply

Status

Changes

Workspace

Build Now

Configure

Delete Project

SonarQube

Rename

Builds

Filter

Today

#16 2:36 PM

#15 2:30 PM

hiring-app

project hiring-app

SonarQube

SonarQube Quality Gate

Charan Passed

server-side processing: Success

Permalinks

- Last build (#16), 2 min 9 sec ago
- Last stable build (#16), 2 min 9 sec ago
- Last successful build (#16), 2 min 9 sec ago
- Last failed build (#15), 8 min 35 sec ago
- Last unsuccessful build (#15), 8 min 35 sec ago
- Last completed build (#16), 2 min 9 sec ago

Edit description

sonarqube

ProjectsIssuesRulesQuality ProfilesQuality GatesAdministration

Search for projects, sub-projects and files

Charan

OverviewIssuesMeasuresCodeActivityAdministration

Quality Gate Passed

Bugs

Vulnerabilities

0 A

0 A

Bugs

Vulnerabilities

Code Smells

0 A

0

Debt

Code Smells

Duplications

0.0%

0

6 Lines of Code

No tags

Activity

December 2, 2024

1.0

Show More

Quality Gate

(Default) SonarQube way

Quality Profiles

(XML) Sonar way

Key

Test

v-profile - #10 Success after 9.3 sec (Open)

hiring-app - #19 Started by user admin (Open)

hiring-app - #19 Success after 7.9 sec (Open)

hiring-app - #20 Started by user admin (Open)

hiring-app - #20 Success after 6.6 sec (Open)