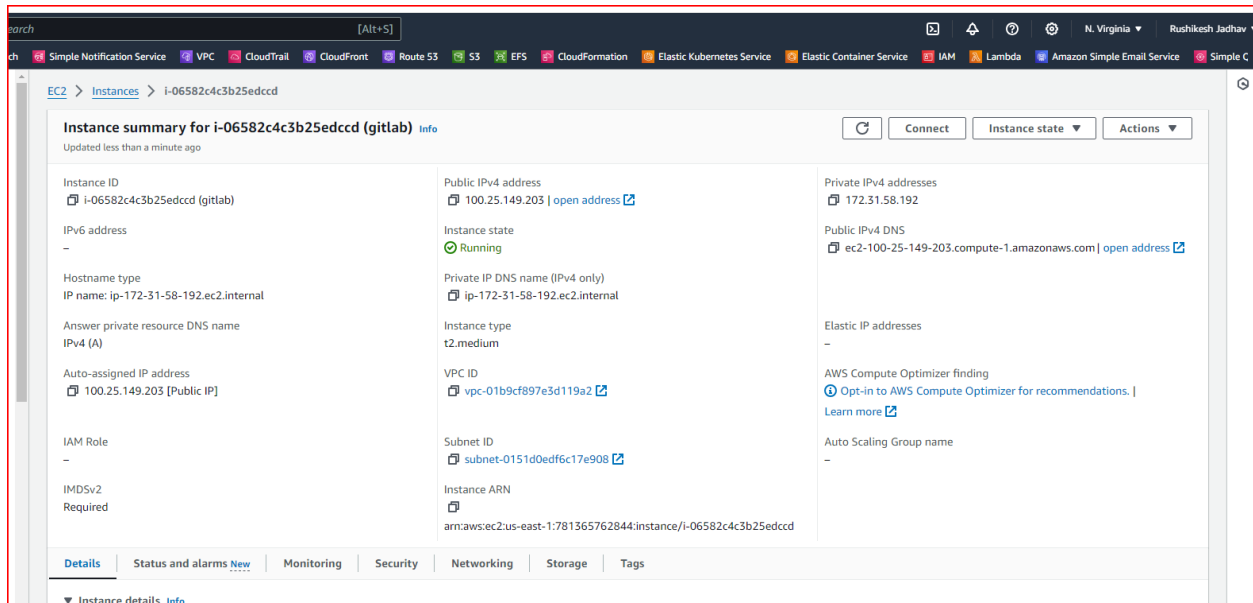
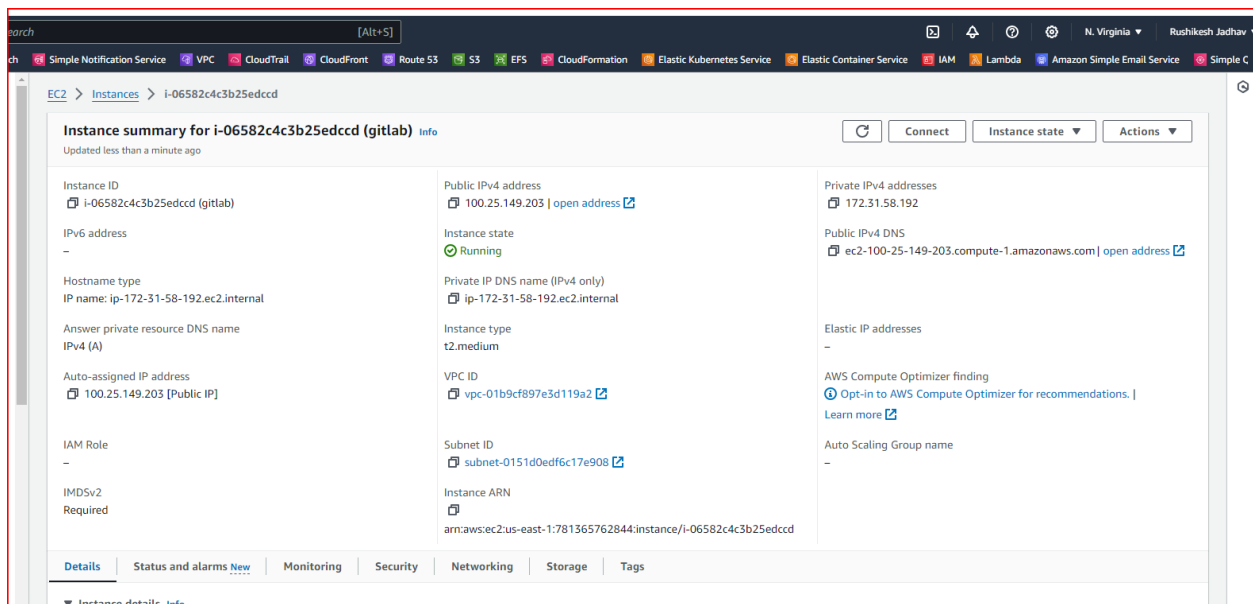


GITLAB POC

For running Gitlab pipeline we need to do some configurations on AWS



Security group



ECR

Simple Notification ServiceVPCCloudTrailCloudFrontRoute 53S3EFSCloudFormationElastic Kubernetes ServiceElastic Container ServiceIAMLambdaAmazon Simple Email Service

Amazon ECRPrivate registryRepositoriesgitlab

View push commandsEdit

Images (10)

Search artifacts

< 1 > ⚙

<input type="checkbox"/>	Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
<input type="checkbox"/>	latest	Image	May 31, 2024, 13:17:19 (UTC+05.5)	284.10	Copy URI	sha256:1ac8c000305995...
<input type="checkbox"/>	-	Image	May 31, 2024, 12:55:01 (UTC+05.5)	284.10	Copy URI	sha256:269c08dfb4e561...
<input type="checkbox"/>	-	Image	May 31, 2024, 12:46:22 (UTC+05.5)	284.10	Copy URI	sha256:26c7e2e5dd54f2...
<input type="checkbox"/>	-	Image	May 31, 2024, 12:40:56 (UTC+05.5)	284.10	Copy URI	sha256:fcab43e35d19d7...
<input type="checkbox"/>	-	Image	May 31, 2024, 10:56:21 (UTC+05.5)	284.10	Copy URI	sha256:1ed6f327f817ea...
<input type="checkbox"/>	-	Image	May 31, 2024, 10:45:59 (UTC+05.5)	284.10	Copy URI	sha256:0df8b8a97556d0...
<input type="checkbox"/>	-	Image	May 31, 2024, 10:38:52 (UTC+05.5)	284.10	Copy URI	sha256:a60dc6a5c1e399c...
<input type="checkbox"/>	-	Image	May 30, 2024, 10:26:54 (UTC+05.5)	284.10	Copy URI	sha256:d38f89e4a7c28a0...

IAM

[Alt+S]

Simple Notification ServiceVPCCloudTrailCloudFrontRoute 53S3EFSCloudFormationElastic Kubernetes ServiceElastic Container ServiceIAMLambdaAmazon Simple Email ServiceSimpl

IAMUserslab

Delete

Summary

ARN
 arn:aws:iam::781365762844:user/lab

Created
May 28, 2024, 16:00 (UTC+05:30)

Console access
Disabled

Last console sign-in
-

Access key 1
AKIA3L3IHLMOCTVIV4W6 - Active
 Used today. 2 days old.

Access key 2
[Create access key](#)

PermissionsGroupsTags (1)Security credentialsAccess Advisor

Permissions policies (1)

Permissions are defined by policies attached to the user directly or through groups.

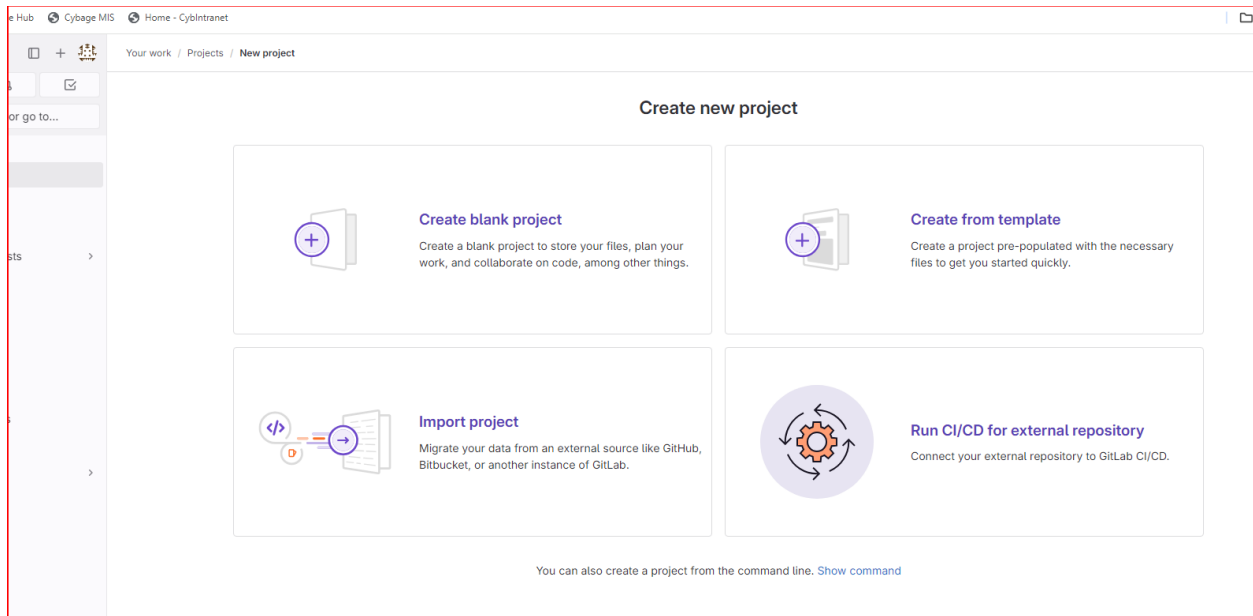
Search

Filter by Type
All types

< 1 > ⚙

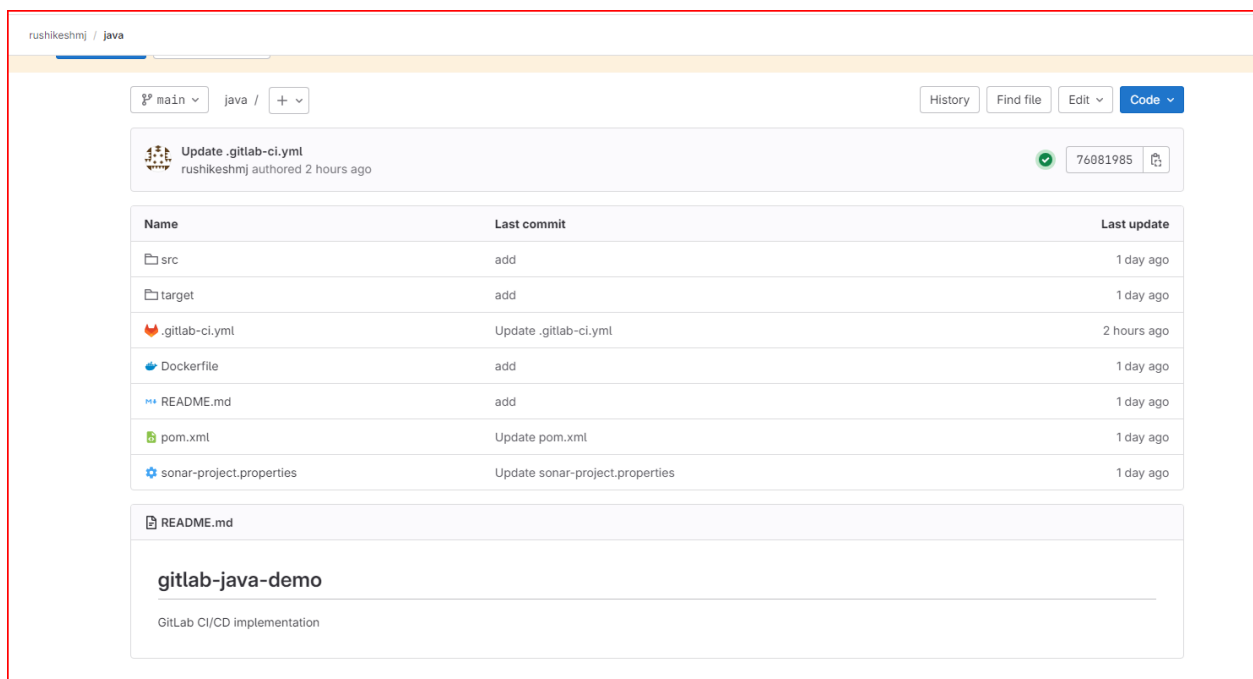
Policy name	Policy type	Attached to
-------------	-------------	-------------

Import project from GITHUB



After that go to project tab on left side and select your project

Create .gitlab-ci.yml file inside the project and start writing yaml file.



After doing this install some application on EC2 Console

```
sudo apt-get update
```

```
sudo apt-get install docker.io
```

```
sudo su
```

```
sudo curl -L --output /usr/local/bin/gitlab-runner https://gitlab-runner-downloads.s3.amazonaws.com/latest/binaries/gitlab-runner-linux-amd64
```

```
sudo chmod +x /usr/local/bin/gitlab-runner
```

```
sudo chmod +x /usr/local/bin/gitlab-runner
```

```
sudo useradd --comment 'GitLab Runner' --create-home gitlab-runner --shell /bin/bash
```

```
sudo gitlab-runner install --user=gitlab-runner --working-directory=/home/gitlab-runner
```

```
sudo gitlab-runner start
```

```
sudo gitlab-runner register
```

```
sudo vi /etc/gitlab-runner/config.toml
```

```
sudo gitlab-runner restart
```

```
docker run -d --name sonarcontainer -p 9000:9000 sonarqube
```

```
docker ps
```

```
docker run -d --name jenkinscontainer -p 8080:8080 jenkins/jenkins
```

```
docker ps
```

```
sudo apt-get install -y curl unzip
```

```
curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
```

```
unzip awscliv2.zip
```

```
sudo ./aws/install
```

```
aws --version
```

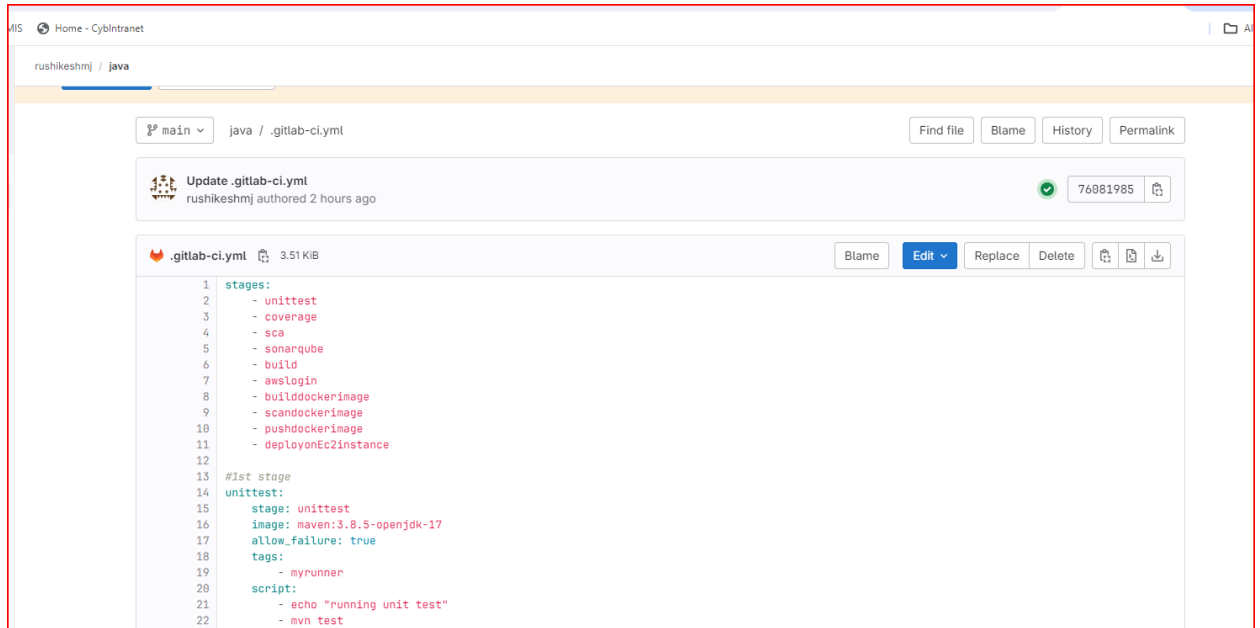
```
aws configure
```

```
aws login
```

1. CI steps for GitLab workflow which includes (Use Self Hosted Runner)

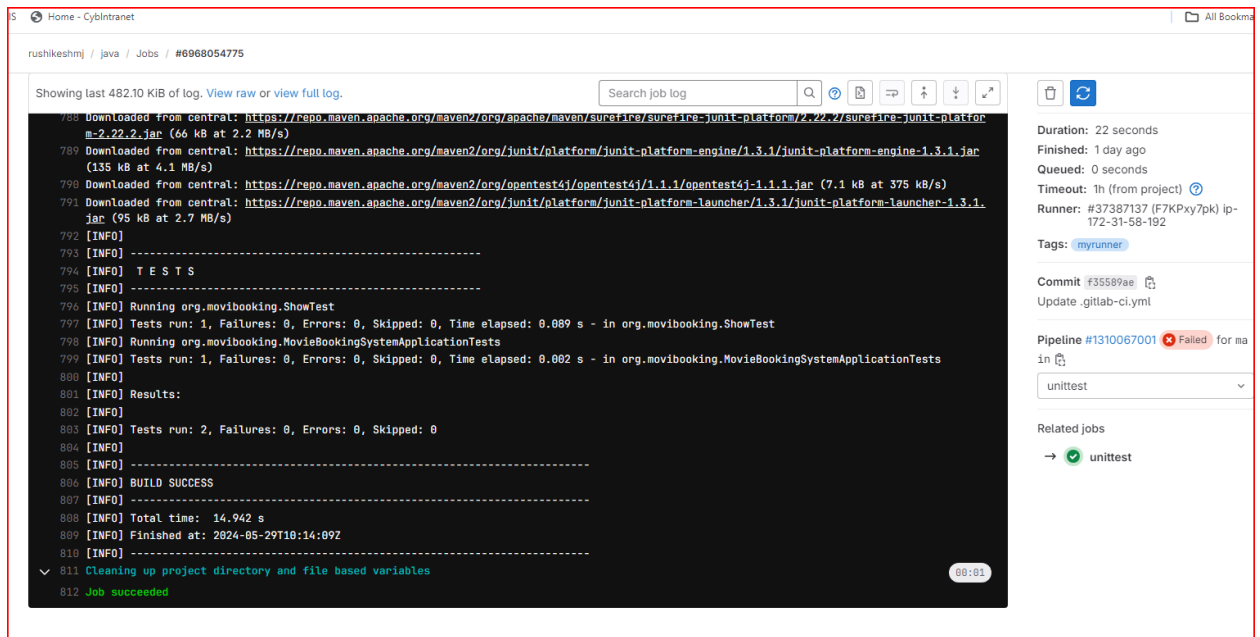
I. Checkout code to repo

II. Unit testing



The screenshot shows the GitLab web interface for a repository named 'rushikeshmj / java'. The file '.gitlab-ci.yml' is selected, showing its content. The file defines a CI pipeline with a single stage named 'unittest'. The pipeline includes steps for downloading dependencies, running unit tests, and cleaning up the project directory.

```
1 stages:
2   - unittest
3   - coverage
4   - sca
5   - sonarqube
6   - build
7   - awslogin
8   - builddockerimage
9   - scandockerimage
10  - pushdockerimage
11  - deployonEc2instance
12
13 #1st stage
14 unittest:
15   stage: unittest
16   image: maven:3.8.5-openjdk-17
17   allow_failure: true
18   tags:
19     - myrunner
20   script:
21     - echo "running unit test"
22     - mvn test
```



The screenshot shows the GitLab web interface for a CI job. The job log is displayed, showing the execution of the 'unittest' stage. The log includes details about the runner, the commit, and the results of the unit tests. The job is marked as 'succeeded'.

```
788 Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/surefire/surefire-junit-platform/2.22.2/surefire-junit-platfor
789 m-2.22.2.jar (66 kB at 2.2 MB/s)
790 Downloaded from central: https://repo.maven.apache.org/maven2/org/junit/platform/junit-platform-engine/1.3.1/junit-platform-engine-1.3.1.jar
791 (135 kB at 4.1 MB/s)
792 Downloaded from central: https://repo.maven.apache.org/maven2/org/opentest4j/opentest4j/1.1.1/opentest4j-1.1.1.jar (7.1 kB at 375 kB/s)
793 Downloaded from central: https://repo.maven.apache.org/maven2/org/junit/platform/junit-platform-launcher/1.3.1/junit-platform-launcher-1.3.1.
794 jar (95 kB at 2.7 MB/s)
795 [INFO] -----
796 [INFO] T E S T S
797 [INFO] -----
798 [INFO] Running org.movibooking.ShowTest
799 [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.089 s - in org.movibooking.ShowTest
800 [INFO] Running org.movibooking.MovieBookingSystemApplicationTests
801 [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.082 s - in org.movibooking.MovieBookingSystemApplicationTests
802 [INFO] Results:
803 [INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
804 [INFO] -----
805 [INFO] BUILD SUCCESS
806 [INFO] -----
807 [INFO] Total time: 14.942 s
808 [INFO] Finished at: 2024-05-29T10:14:09Z
809 [INFO] -----
810 [INFO] -----
811 Cleaning up project directory and file based variables
812 Job succeeded
```

III. code coverage using jacoco

```
1 stages:
2   - unittest
3   - coverage
4   - sca
5   - sonarqube
6   - build
7   - awslogin
8   - builddockerimage
9   - scandockerimage
10  - pushdockerimage
11  - deployonEc2instance
12
13 #1st stage
14 unittest:
15   stage: unittest
16   image: maven:3.8.5-openjdk-17
17   allow_failure: true
18   tags:
19     - myrunner
20   script:
21     - echo "running unit test"
22     - mvn test
23
24 #2nd stage
25 coverage:
26   stage: coverage
27   image: maven:3.8.5-openjdk-17
28   tags:
29     - myrunner
30   script:
31     - mvn clean jacoco:prepare-agent test jacoco:report -B
32     - ls -latr target/site/jacoco
33   artifacts:
34     paths:
35       - target/site/jacoco/jacoco.xml
36     expire_in: 1 week
```

1367 [INFO] -----
1368 [INFO] BUILD SUCCESS
1369 [INFO] -----
1370 [INFO] Total time: 12.979 s
1371 [INFO] Finished at: 2024-05-29T10:14:30Z
1372 [INFO] -----
1373 \$ ls -latr target/site/jacoco
1374 total 120
1375 drwxr-xr-x 3 root root 4096 May 29 10:14 ..
1376 drwxr-xr-x 2 root root 4096 May 29 10:14 jacoco-resources
1377 drwxr-xr-x 2 root root 4096 May 29 10:14 org.moviebooking.controller
1378 drwxr-xr-x 2 root root 4096 May 29 10:14 org.moviebooking.service
1379 drwxr-xr-x 2 root root 4096 May 29 10:14 org.moviebooking.model
1380 drwxr-xr-x 2 root root 4096 May 29 10:14 org.moviebooking.metrics
1381 drwxr-xr-x 2 root root 4096 May 29 10:14 org.moviebooking.config
1382 drwxr-xr-x 2 root root 4096 May 29 10:14 org.moviebooking
1383 -rw-r--r-- 1 root root 5833 May 29 10:14 index.html
1384 drwxr-xr-x 9 root root 4096 May 29 10:14 .
1385 -rw-r--r-- 1 root root 31583 May 29 10:14 jacoco.xml
1386 -rw-r--r-- 1 root root 962 May 29 10:14 jacoco.csv
1387 -rw-r--r-- 1 root root 40685 May 29 10:14 jacoco-sessions.html
1388 Uploading artifacts for successful job
1389 Uploading artifacts...
1390 target/site/jacoco/jacoco.xml: found 1 matching artifact files and directories
1391 Uploading artifacts as "archive" to coordinator... 201 Created id=6968054782 responseStatus=201 Created token=glcblt-65
1392 Cleaning up project directory and file based variables
1393 Job succeeded

Duration: 21 seconds
Finished: 1 day ago
Queued: 0 seconds
Timeout: 1h (from project)
Runner: #37387137 (F7KPy
172-31-58-192
Tags: myrunner
Job artifacts
The artifacts will be removed
Keep Download
Commit #35589ae
Update .gitlab-ci.yml
Pipeline #1310067001
in
coverage
Related jobs
→ coverage

IV. SCA using SonarQubes along with quality gates

```
thikeshmj/java/-/blob/main/.gitlab-ci.yml?ref_type=heads
MIS Home - Cylbitranet
rushikeshmj / java

10 - pushdockerimage
11 - deployonEc2instance
12
13 #1st stage
14 unittest:
15   stage: unittest
16   image: maven:3.8.5-openjdk-17
17   allow_failure: true
18   tags:
19     - myrunner
20   script:
21     - echo "running unit test"
22     - mvn test
23 #2nd stage
24 coverage:
25   stage: coverage
26   image: maven:3.8.5-openjdk-17
27   tags:
28     - myrunner
29   script:
30     - mvn clean jacoco:prepare-agent test jacoco:report -B
31     - ls -latr target/site/jacoco
32   artifacts:
33     paths:
34       - target/site/jacoco/jacoco.xml
35     expire_in: 1 week
36 #3rd stage
37 sonarqube:
38   stage: sonarqube
39   image: maven:3.8.5-openjdk-17
40   tags:
41     - myrunner
42   dependencies:
43     - coverage
44   script:
45     - mvn sonar:sonar -Pcoverage -Dsonar.projectKey=sonar-gitlab -Dsonar.organization=sonar-gitlab -Dsonar.host.url=$$SONAR_HOST_URL -Dsonar.lo
```

```
rushikeshmj/java/-/jobs/6986425998
age MIS Home - Cylbitranet
rushikeshmj / java / Jobs / #6986425998

Showing last 497.53 KIB of log. View raw or view full log. Search job log

349 [WARNING] * src/main/java/org/moviebooking/repository/BookingRepository.java
350 [WARNING] * src/main/java/org/moviebooking/service/ShowServiceImpl.java
351 [WARNING] * src/main/java/org/moviebooking/config/SecurityConfig.java
352 [WARNING] * src/main/java/org/moviebooking/MovieBookingSystemApplication.java
353 [WARNING] * src/test/java/org/moviebooking/MovieBookingSystemApplicationTests.java
354 [WARNING] * src/main/java/org/moviebooking/metrics/ShowPerformanceMetrics.java
355 [WARNING] This may lead to missing/broken features in SonarQube
356 [INFO] CPD Executor 8 files had no CPD blocks
357 [INFO] CPD Executor Calculating CPD for 6 files
358 [INFO] CPD Executor CPD calculation finished (done) | time=15ms
359 [INFO] SCM revision ID '76081985e4ada60c174566395462526b86e3dd61'
360 [INFO] Analysis report generated in 120ms, dir size=250.3 kB
361 [INFO] Analysis report compressed in 47ms, zip size=56.2 kB
362 [INFO] Analysis report uploaded in 36ms
363 [INFO] ----- Check Quality Gate status
364 [INFO] Waiting for the analysis report to be processed (max 300s)
365 [INFO] QUALITY GATE STATUS: PASSED - View details on http://100.25.149.203:9000/dashboard?id=sonar-gitlab
366 [INFO] Analysis total time: 38.058 s
367 [INFO] -----
368 [INFO] BUILD SUCCESS
369 [INFO] -----
370 [INFO] Total time: 48.753 s
371 [INFO] Finished at: 2024-05-31T07:43:45Z
372 [INFO] -----
373 [WARNING] The requested profile "coverage" could not be activated because it does not exist.
374 Cleaning up project directory and file based variables
375 Job succeeded

Duration: 59 seconds
Finished: 2 hours ago
Queued: 3 seconds
Timeout: 1h (from project)
Runner: #37387137 (F7KPxyp172-31-58-192)
Tags: myrunner
Commit /76081985
Update .gitlab-ci.yml
Pipeline #1312935998 Passed
sonarqube
Related jobs
→ sonarqube
```

V. Build and package JAR

```

31 - ls -latr target/site/jacoco
32 artifacts:
33   paths:
34     - target/site/jacoco/jacoco.xml
35   expire_in: 1 week
36 #3rd stage
37 sonarqube:
38   stage: sonarqube
39   image: maven:3.8.5-openjdk-17
40   tags:
41     - myrunner
42   dependencies:
43     - coverage
44   script:
45     - mvn sonar:sonar -Pcoverage -Dsonar.projectKey=sonar-gitlab -Dsonar.organization=sonar-gitlab -Dsonar.host.url=$SONAR_HOST_URL -Dsonar.lo
46
47 #4th stage
48
49 build:
50   stage: build
51   image: maven:3.8.5-openjdk-17
52   tags:
53     - myrunner
54   script:
55     - mvn clean install -DskipTests
56
57 artifacts:
58   when: always
59   name: "SpringBoot Report"
60   paths:
61     - target/*
62   expire_in: 30 days
63
64
```

com/rushikeshmj/java/-/jobs/6986426000

Cybage MIS Home - Cyblintranet

rushikeshmj / java / Jobs / #6986426000

Showing last 498.72 KIB of log. [View raw](#) or [view full log](#).

907 Downloading from central: [https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils-0.4.jar](https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar)

908 Downloading from central: [https://repo.maven.apache.org/maven2/commons-codec/commons-codec-1.6.jar](https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar)

909 Downloading from central: <https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.jar> (121 kB at 10 MB/s)

910 Downloading from central: <https://repo.maven.apache.org/maven2/com/google/code/findbugs/jsr305/2.0.1/jsr305-2.0.1.jar>

911 Downloading from central: <https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar>

912 Downloading from central: [https://repo.maven.apache.org/maven2/commons-codex/commons-codex-1.6.jar](https://repo.maven.apache.org/maven2/commons-codex/commons-codex/1.6/commons-codex-1.6.jar) (233 kB at 16 MB/s)

913 Downloading from central: <https://repo.maven.apache.org/maven2/com/google/code/findbugs/jsr305/2.0.1/jsr305-2.0.1.jar> (32 kB at 1.4 MB/s)

914 Downloading from central: <https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar> (155 kB at 6.8 MB/s)

915 Downloading from central: <https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar> (239 kB at 13 MB/s)

916 [INFO] Installing /builds/rushikeshmj/java/target/movie_management-0.0.1-SNAPSHOT.jar to /root/.m2/repository/org/moviebooking/movie_management-0.0.1-SNAPSHOT/movie_management-0.0.1-SNAPSHOT.jar

917 [INFO] Installing /builds/rushikeshmj/java/pom.xml to /root/.m2/repository/org/moviebooking/movie_management-0.0.1-SNAPSHOT/movie_management-0.0.1-SNAPSHOT.pom

918 [INFO] -----

919 [INFO] BUILD SUCCESS

920 [INFO] -----

921 [INFO] Total time: 17.164 s

922 [INFO] Finished at: 2024-05-31T07:44:18Z

923 [INFO] -----

924 Uploading artifacts for successful job

925 Uploading artifacts...

926 target/*: found 47 matching artifact files and directories

927 Uploading artifacts as "archive" to coordinator... 201 Created id=6986426000 responseStatus=201 Created token=glcblt-65

928 Cleaning up project directory and file based variables

929 Job succeeded

Duration: 34 seconds

Finished: 2 hours ago

Queued: 3 seconds

Timeout: 1h (from project)

Runner: #37387137 (F7KPxy7pk) ip-172-31-58-192

Tags: myrunner

Job artifacts

These artifacts are the latest. They will not be deleted (even if expired) until newer artifacts are available.

Keep Download Browse

Commit 76081985

Update .gitlab-ci.yml

Pipeline #1312935998 Passed for main

build

Related jobs

→ build

VI. Configuration of AWS

```
rushikeshmj/java/-/blob/main/gitlab-ci.yml?ref_type=heads
page MIS Home - Cybintranet
rushikeshmj / java
42 dependencies:
43   - coverage
44 script:
45   - mvn sonar:sonar -Pcoverage -Dsonar.projectKey=sonar-gitlab -Dsonar.organization=sonar-gitlab -Dsonar.host.url=$SONAR_HOST_URL -Dsonar.lo
46
47 #4th stage
48
49 build:
50   stage: build
51   image: maven:3.8.5-openjdk-17
52   tags:
53     - myrunner
54   script:
55     - mvn clean install -DskipTests
56
57 artifacts:
58   when: always
59   name: "SpringBoot Report"
60   paths:
61     - target/*
62   expire_in: 30 days
63
64
65
66 #5th stage
67
68 awslogin:
69   stage: awslogin
70   image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
71   tags:
72     - myrunner
73   before_script:
74     - aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
75     - aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
76     - aws configure set default.region $AWS_DEFAULT_REGION
77   script:
78     - aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
79
```

rushikeshmj/java/-/jobs/6986426002

Search job log

```
13 Checking out 76081985 as detached HEAD (ref is main)...
14 Removing target/generated-sources/
15 Removing target/generated-test-sources/
16 Removing target/maven-archiver/
17 Removing target/maven-status/
18 Removing target/movie_management-0.0.1-SNAPSHOT.jar
19 Removing target/movie_management-0.0.1-SNAPSHOT.jar.original
20 Skipping Git submodules setup
21 Downloading artifacts
22 Downloading artifacts for coverage (6986425995)...
23 Downloading artifacts from coordinator... ok host=cdn.artifacts.gitlab-static.net id=6986425995 responseStatus=200 OK token=glcblt-65
24 Downloading artifacts for build (6986426000)...
25 Downloading artifacts from coordinator... ok host=cdn.artifacts.gitlab-static.net id=6986426000 responseStatus=200 OK token=glcblt-65
26 Executing "step_script" stage of the job script
27 Using docker image sha256:c92d24ce853e526269f814867ab9442ff17b30721f0691158a40abd7b67aead2 for registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest with digest registry.gitlab.com/gitlab-org/cloud-deploy/aws-base@sha256:91773d7cc5afdac8aa8a5c385ba2263fc76de483ba4b08a635cf71436f8ad2a0 ...
28 $ aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
29 $ aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
30 $ aws configure set default.region $AWS_DEFAULT_REGION
31 $ aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
32 WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
33 Configure a credential helper to remove this warning. See
34 https://docs.docker.com/engine/reference/commandline/login/#credentials-store
35 Login Succeeded
36 Cleaning up project directory and file based variables
37 Job succeeded
```

Duration: 14 seconds
Finished: 2 hours ago
Queued: 3 seconds
Timeout: 1h (from project)
Runner: #37387137 (F7KPy7pk) ip-172-31-58-192
Tags: myrunner
Commit 76081985
Update gitlab-ci.yml
Pipeline #1312935998 Passed
awslogin
Related jobs
awslogin

VII. builddockerimage

```
rushikeshmj/java/-/blob/main/gitlab-ci.yml?ref_type=heads
age MIS Home - Cyblntranet All Book

rushikeshmj / java

52 tags:
53   - myrunner
54 script:
55   - mvn clean install -DskipTests
56
57 artifacts:
58   when: always
59   name: "SpringBoot Report"
60   paths:
61     - target/*
62   expire_in: 30 days
63
64
65
66 #5th stage
67
68 awsLogin:
69   stage: awslogin
70   image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
71   tags:
72     - myrunner
73   before_script:
74     - aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
75     - aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
76     - aws configure set default.region $AWS_DEFAULT_REGION
77   script:
78     - aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
79
80
81 #6th stage
82
83 builddockerimage:
84   stage: builddockerimage
85   tags:
86     - myrunner
87   image: docker:latest
88   services:
89     - docker:dind
90   script:
91     - docker build -t $DOCKER_REGISTRY/$APP_NAME:latest .
```

```
rushikeshmj/java/-/blob/main/gitlab-ci.yml?ref_type=heads
age MIS Home - Cyblntranet All Book

rushikeshmj / java

52 tags:
53   - myrunner
54 script:
55   - mvn clean install -DskipTests
56
57 artifacts:
58   when: always
59   name: "SpringBoot Report"
60   paths:
61     - target/*
62   expire_in: 30 days
63
64
65
66 #5th stage
67
68 awsLogin:
69   stage: awslogin
70   image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
71   tags:
72     - myrunner
73   before_script:
74     - aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
75     - aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
76     - aws configure set default.region $AWS_DEFAULT_REGION
77   script:
78     - aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
79
80
81 #6th stage
82
83 builddockerimage:
84   stage: builddockerimage
85   tags:
86     - myrunner
87   image: docker:latest
88   services:
89     - docker:dind
90   script:
91     - docker build -t $DOCKER_REGISTRY/$APP_NAME:latest .
```

VIII. scandockerimage

```

68  awslogin:
69    stage: awslogin
70    image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
71    tags:
72      - myrunner
73    before_script:
74      - aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
75      - aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
76      - aws configure set default.region $AWS_DEFAULT_REGION
77    script:
78      - aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
79
80  #6th stage
81
82  builddockerimage:
83    stage: builddockerimage
84    tags:
85      - myrunner
86    image: docker:latest
87    services:
88      - docker:dind
89    script:
90      - docker build -t $DOCKER_REGISTRY/$APP_NAME:latest .
91
92  #7th stage
93
94  scandockerimage:
95    stage: scandockerimage
96    image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
97    tags:
98      - myrunner
99    script:
100      - apt install -y curl
101      - curl -sL https://raw.githubusercontent.com/aquasecurity/trivy/main/contrib/install.sh | sh -s -- -b /usr/local/bin v0.51.1
102      - trivy image $DOCKER_REGISTRY/$APP_NAME:$DOCKER_IMAGE_TAG
103
```

681

<https://avd.aquasec.com/nvd/cve-2022-38750>

682

683

snakeyaml: Uncaught exception in

CVE-2022-38751

684

java.base/java.util.regex.Pattern\$Ques.match

685

<https://avd.aquasec.com/nvd/cve-2022-38751>

686

687

snakeyaml: Uncaught exception in

CVE-2022-38752

688

java.base/java.util.ArrayList.hashCode

689

<https://avd.aquasec.com/nvd/cve-2022-38752>

690

691

dev-java/snakeyaml: DoS via stack overflow

CVE-2022-41854

692

<https://avd.aquasec.com/nvd/cve-2022-41854>

693

694

Cleaning up project directory and file based variables

695

Job succeeded

88:01

Search job log

Duration: 1 minute 27 seconds

Finished: 2 hours ago

Queued: 3 seconds

Timeout: 1h (from project)

Runner: #37387137 (F7KPy7pk) ip-172-31-58-192

Tags: myrunner

Commit 76081985

Update .gitlab-ci.yml

Pipeline #1312935998 Passed for main

scandockerimage

Related jobs

→ scandockerimage

IX. pushdockerimage

```
m/rushikeshmj/java/-/blob/main/gitlab-ci.yml?ref_type=heads
ybage MIS Home - Cylbitranet
rushikeshmj / java
79
80 #6th stage
81
82 builddockerimage:
83   stage: builddockerimage
84   tags:
85     - myrunner
86   image: docker:latest
87   services:
88     - docker:dind
89   script:
90     - docker build -t $DOCKER_REGISTRY/$APP_NAME:latest .
91
92 #7th stage
93
94 scandockerimage:
95   stage: scandockerimage
96   image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
97   tags:
98     - myrunner
99   script:
100     - apt install -y curl
101     - curl -sL https://raw.githubusercontent.com/aquasecurity/trivy/main/contrib/install.sh | sh -s -- -b /usr/local/bin v0.51.1
102     - trivy image $DOCKER_REGISTRY/$APP_NAME:$DOCKER_IMAGE_TAG
103
104 #8th stage
105
106 pushdockerimage:
107   stage: pushdockerimage
108   image: registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest
109   tags:
110     - myrunner
111   before_script:
112     - aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
113     - aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
114     - aws configure set default.region $AWS_DEFAULT_REGION
115   script:
116     - aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
117     - docker push $DOCKER_REGISTRY/$APP_NAME:$DOCKER_IMAGE_TAG
118
```

rushikeshmj/java/-/jobs/6986426007

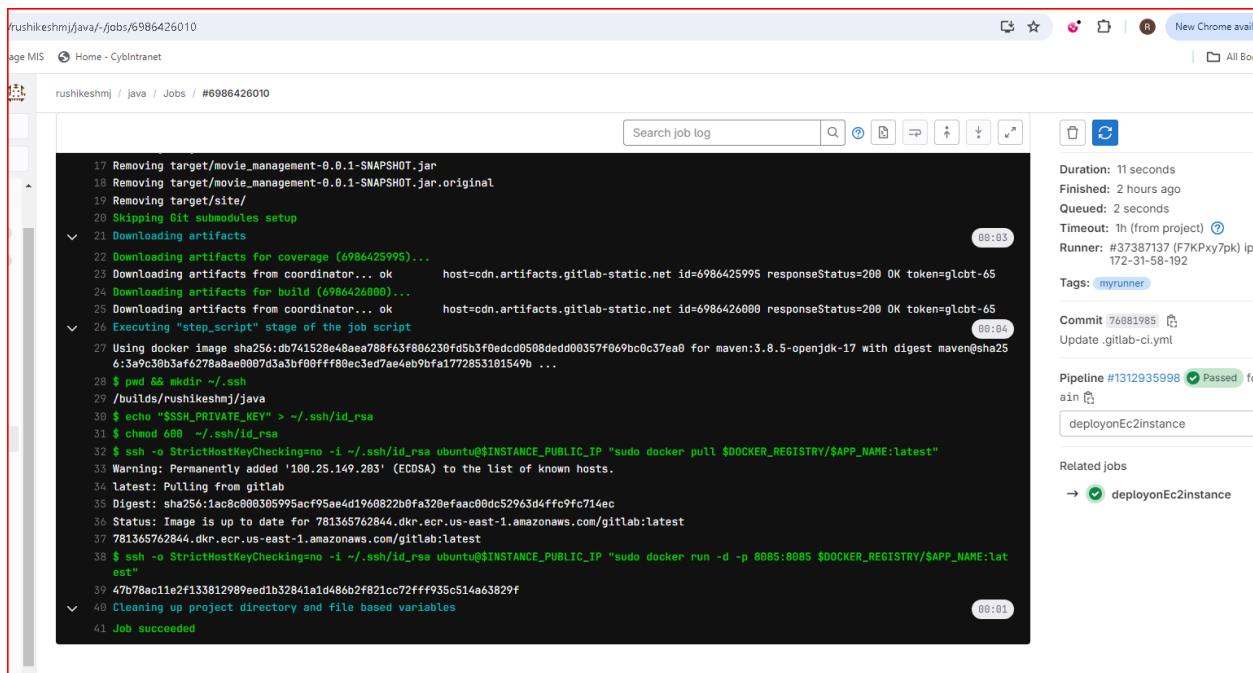
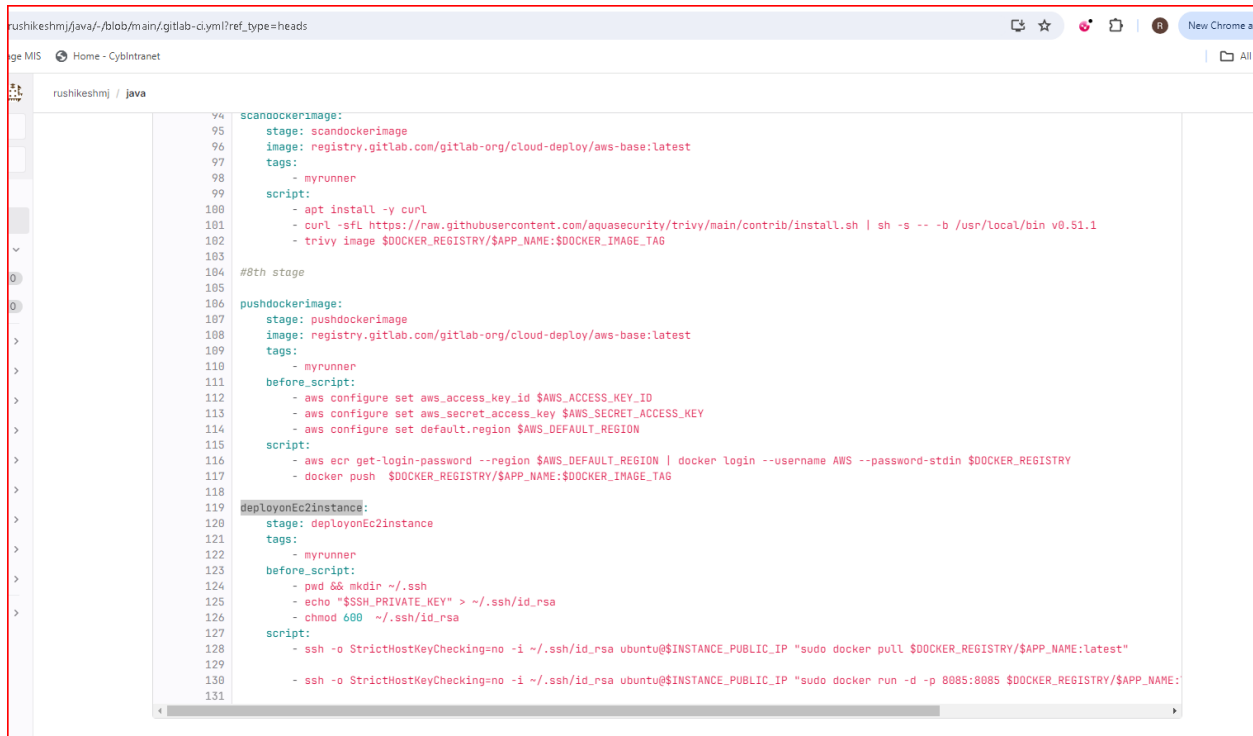
Search job log

```
24 Downloading artifacts from coordinator... ok host=cdn.artifacts.gitlab-static.net id=6986426000 responseStatus=200 OK token=glcvt-65
25 Downloading artifacts from coordinator... ok host=cdn.artifacts.gitlab-static.net id=6986426000 responseStatus=200 OK token=glcvt-65
26 Downloading artifacts from coordinator... ok host=cdn.artifacts.gitlab-static.net id=6986426000 responseStatus=200 OK token=glcvt-65
27 Executing "step_script" stage of the job script
28 Using docker image sha256:c92d24ce053e526269f814867ab9442ff17b30721f0691158a40abd7b67aead2 for registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest with digest registry.gitlab.com/gitlab-org/cloud-deploy/aws-base:latest@sha256:91773d7cc5afdac8a8a5c385ba2263fc76de483ba4b08a035cf71436f8ad2a0 ...
29 $ aws configure set aws_access_key_id $AWS_ACCESS_KEY_ID
30 $ aws configure set aws_secret_access_key $AWS_SECRET_ACCESS_KEY
31 $ aws configure set default.region $AWS_DEFAULT_REGION
32 $ aws ecr get-login-password --region $AWS_DEFAULT_REGION | docker login --username AWS --password-stdin $DOCKER_REGISTRY
33 WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
34 Configure a credential helper to remove this warning. See
35 https://docs.docker.com/engine/reference/commandline/login/#credentials-store
36 Login Succeeded
37 $ docker push $DOCKER_REGISTRY/$APP_NAME:$DOCKER_IMAGE_TAG
38 The push refers to repository [781365762844.dkr.ecr.us-east-1.amazonaws.com/gitlab]
39 2ae0bad4fa80: Preparing
40 dc9fa3d8b576: Preparing
41 27ee19dc88f2: Preparing
42 c8dd97366670: Preparing
43 dc9fa3d8b576: Layer already exists
44 c8dd97366670: Layer already exists
45 27ee19dc88f2: Layer already exists
46 2ae0bad4fa80: Pushed
47 latest: digest: sha256:1ac8c00030599595ac9f5ae4d1968822b0fa320efaac00dc52963d4ffc9fc714ec size: 1166
48 Cleaning up project directory and file based variables
49 Job succeeded
```

Duration: 18 seconds
Finished: 2 hours ago
Queued: 0 seconds
Timeout: 1h (from project)
Runner: #37387137 (F7KPy7pk172-31-58-192)
Tags: myrunner
Commit 76081985 Update .gitlab-ci.yml
Pipeline #1312935996 Passed
pushdockerimage
Related jobs
→ pushdockerimage

1. Deploy application on EC2 using SSH Private Key

1. Deploy application on EC2 using SSH Private Key



Complete pipeline

Home - Cyblntranet

rushikeshmj / java / Pipelines

All 33 Finished Branches Tags

Clear runner caches CI lint Run pipeline

Filter pipelines

Status	Pipeline	Created by	Stages
Passed 00:05:26 2 hours ago	Update .gitlab-ci.yml #1312935998 main 76881985 latest		
Failed 00:05:26 2 hours ago	Update .gitlab-ci.yml #1312913541 main 14adc8bd		
Failed 00:05:13 2 hours ago	Update .gitlab-ci.yml #1312905431 main 9bbc85d6		
Failed 00:05:04 3 hours ago	Update .gitlab-ci.yml #1312900634 main 41fefc4f		
Failed 00:05:19 4 hours ago	Update .gitlab-ci.yml #1312811476 main 58af2575		
Failed 00:05:17 4 hours ago	Update .gitlab-ci.yml #1312805415 main a1b40aa4		

For above pipeline code we need to set variables in settings--CI/CD-- variables

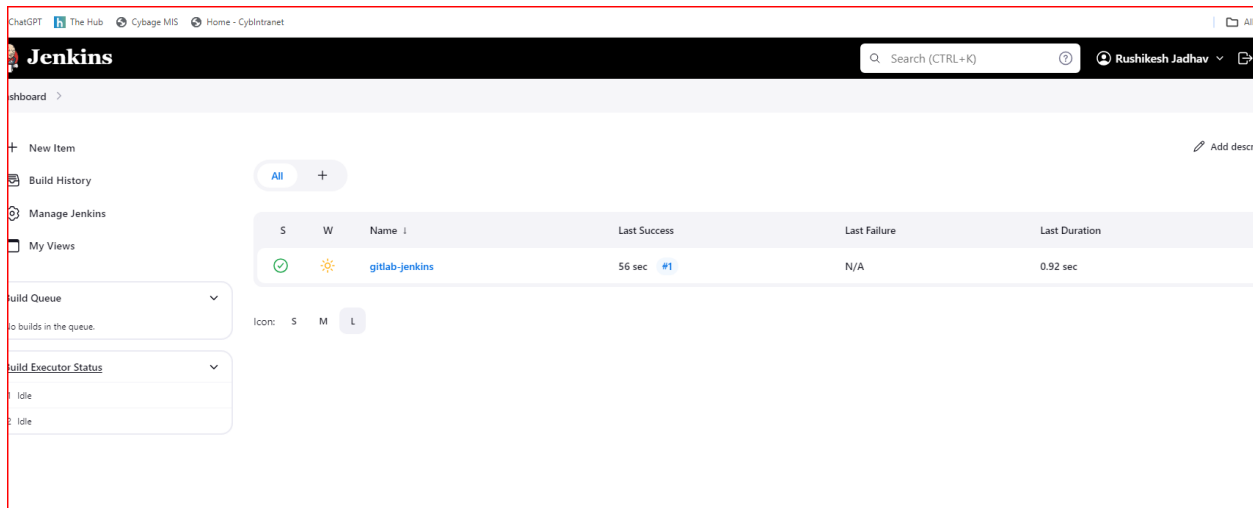
rushikeshmj / java / CI/CD Settings

APP_NAME Expanded	*****	All (default)	
AWS_ACCESS_KEY_ID Protected Expanded	*****	All (default)	
AWS_DEFAULT_REGION Expanded	*****	All (default)	
AWS_SECRET_ACCESS_KEY Expanded	*****	All (default)	
DOCKER_IMAGE_TAG Expanded	*****	All (default)	
DOCKER_REGISTRY Protected Expanded	*****	All (default)	
ECR_REPOSITORY Expanded	*****	All (default)	
INSTANCE_PUBLIC_IP Expanded	*****	All (default)	
SONAR_HOST_URL Expanded	*****	All (default)	
SONAR_TOKEN Protected Expanded	*****	All (default)	
SSH_PRIVATE_KEY Expanded	*****	All (default)	

3. Integration of tools

Jenkins GitLab Integration using same GitLab Repo

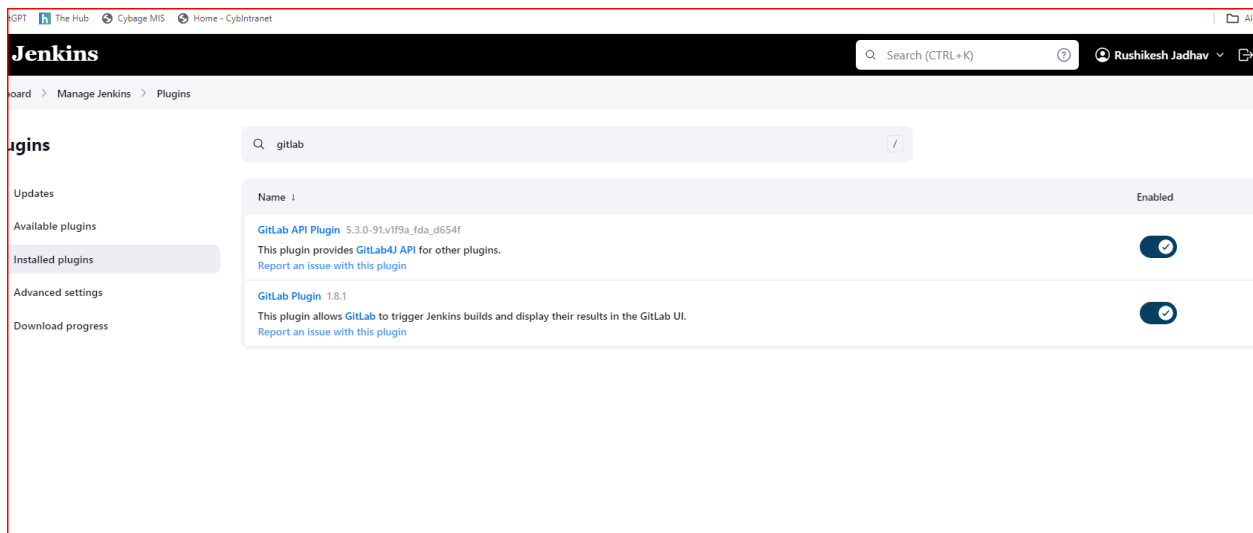
Create Job



The screenshot shows the Jenkins dashboard. The top navigation bar includes the Jenkins logo, a search bar, and the user name 'Rushikesh Jadhav'. The left sidebar contains links to 'New Item', 'Build History', 'Manage Jenkins', and 'My Views'. The main content area displays a table of jobs. The table has columns for 'S' (Status), 'W' (Webhook), 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. A single job is listed: 'gitlab-jenkins' with a status of 'Success' (green checkmark), a webhook icon, a last success time of '56 sec', and a last duration of '0.92 sec'. Below the table, there are tabs for 'Icon', 'S', 'M', and 'L'.

S	W	Name	Last Success	Last Failure	Last Duration
✓	🔔	gitlab-jenkins	56 sec #1	N/A	0.92 sec

Download plugins of gitlab



The screenshot shows the Jenkins 'Manage Jenkins' page, specifically the 'Plugins' section. The left sidebar has links to 'Updates', 'Available plugins', 'Installed plugins', 'Advanced settings', and 'Download progress'. The main content area shows a search bar with 'gitlab' entered. Below the search bar, there are two sections: 'Available plugins' and 'Installed plugins'. The 'Installed plugins' section lists two plugins: 'GitLab API Plugin' (version 5.3.0-91.v1f9a_fda_d654f) and 'GitLab Plugin' (version 1.8.1). Both plugins are marked as 'Enabled' with a toggle switch. The 'GitLab API Plugin' description states: 'This plugin provides GitLab4J API for other plugins. Report an issue with this plugin'. The 'GitLab Plugin' description states: 'This plugin allows GitLab to trigger Jenkins builds and display their results in the GitLab UI. Report an issue with this plugin'.

Name	Enabled
GitLab API Plugin 5.3.0-91.v1f9a_fda_d654f This plugin provides GitLab4J API for other plugins. Report an issue with this plugin	<input checked="" type="checkbox"/>
GitLab Plugin 1.8.1 This plugin allows GitLab to trigger Jenkins builds and display their results in the GitLab UI. Report an issue with this plugin	<input checked="" type="checkbox"/>

Add Gitlab credentials

The screenshot shows the Jenkins 'Add GitLab credentials' configuration page. The browser address bar indicates the URL is 34.224.165.23/manage/configure. The page title is 'Manage Jenkins > System'. A checkbox 'Enable authentication for "/>

We can see added credentials here

The screenshot shows the Jenkins 'Credentials' list page. The browser address bar indicates the URL is 34.224.165.23/manage/credentials. The page title is 'Manage Jenkins > Credentials'. The 'Credentials' section shows a table with two entries. The first entry is 'GitLab API token (gitlab-jen)' with ID 'cd1c4555-cc2f-49d8-ab99-ede3eaf3b2c3'. The second entry is 'GitLab API token (gitlab-jenkins-int)' with ID '29ee8703-fb7c-46ad-a612-cdb117f0e4f1'.

T	P	Store I	Domain	ID	Name
		System	(global)	cd1c4555-cc2f-49d8-ab99-ede3eaf3b2c3	GitLab API token (gitlab-jen)
		System	(global)	29ee8703-fb7c-46ad-a612-cdb117f0e4f1	GitLab API token (gitlab-jenkins-int)

API Token from Jenkins to access webhook

Rushikesh Jadhav > Configure

Full Name ?

Rushikesh Jadhav

Description ?

Plain text [Preview](#)

API Token

Current token(s) ?

jenkins token

Created 0 day(s) agoUsed 1 time(s), last time was 0 day(s) ago

Add new Token

GitLab events trigger webhooks

gitlab.com/rushikeshmj/java/-/hooks/40527844/edit

ChatGPTThe HubCybage MISHome - Cylintranet

Next

Search or go to...

Build

Secure

Deploy

Operate

Monitor

Analyze

Settings

General

Integrations

Webhooks

Access Tokens

Repository

Merge requests

CI/CD

Packages and registries

Monitor

Usage Quotas

rushikeshmj / java / Webhook Settings / Webhook

Hook executed successfully: HTTP 200

Search page

Webhook

Webhooks enable you to send notifications to web applications in response to events in a group or project. We recommend using an [integration](#) in preference to a webhook.

URL

http://rushikesh:11b7575b0ca970e784994974d9e1af21b6@34.224.165.23/job/gitl

URL must be percent-encoded if it contains one or more special characters.

☒ Show full URL

☐ Mask portions of URL

Do not show sensitive data such as tokens in the UI.

Custom headers </> 0

Add custom header

No custom headers configured.

Name (optional)

Description (optional)

Secret token

Console output

The screenshot shows the Jenkins web interface. The browser address bar indicates the URL is 34.224.165.23/job/gitlab-jenkins/1/console. The Jenkins logo and a search bar are at the top. The breadcrumb trail is Dashboard > gitlab-jenkins > #1 > Console Output. On the left sidebar, the 'Console Output' tab is selected. The main area displays the console output for build #1, which is a successful Git build. The output text is as follows:

```
Started by user: Rushikesh Jadhav
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/gitlab-jenkins
The recommended git tool is: NONE
Warning: CredentialId "747b4717-7255-49f9-9b44-af69cbe9374c" could not be found.
Cloning the remote Git repository
Cloning repository https://gitlab.com/rushikeshmj/java.git
> git init /var/jenkins_home/workspace/gitlab-jenkins # timeout=10
Fetching upstream changes from https://gitlab.com/rushikeshmj/java.git
> git --version # timeout=10
> git --version # 'git version 2.39.2'
> git fetch --tags --force --progress -- https://gitlab.com/rushikeshmj/java.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://gitlab.com/rushikeshmj/java.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 76081985e4ada60c174566395462526b86e3dd61 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 76081985e4ada60c174566395462526b86e3dd61 # timeout=10
Commit message: "Update .gitlab-ci.yml"
First time build. Skipping changelog.
Finished: SUCCESS
```

At the bottom right of the console output area, there are links for 'Download', 'Copy', and 'View as p...'. The bottom right corner of the page shows 'REST API' and 'Jen'.