

aws [Search] [Alt+S] N. Virginia devalpayal069

Instances (3) Info Last updated less than a minute ago Connect Instance state Actions Launch Instances

Find instance by attribute or tag (case-sensitive) All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availab
<input type="checkbox"/>	Jenkins	i-07d681f57aa8970de	Running	t2.micro	2/2 checks passed	View alarms +	us-east
<input type="checkbox"/>	Jenkin-Agent	i-0b64feac1ddcfbb9a	Running	t2.micro	2/2 checks passed	View alarms +	us-east
<input type="checkbox"/>	SonarQube	i-0bf0c0eee5f093652	Running	t3.medium	3/3 checks passed	View alarms +	us-east

Jenkins Node

← → ↻ Not secure 44.204.90.143:8080/manage/computer/ ☆ Incognito Finish update

Jenkins Search (CTRL+K) Payal Deval log out

Dashboard > Manage Jenkins > Nodes

Nodes + New Node Configure Monitors

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	10.27 GiB	0 B	10.27 GiB	0ms
	Jenkins-Agent	Linux (amd64)	In sync	9.69 GiB	0 B	9.69 GiB	44ms
Data obtained		17 sec	17 sec	17 sec	17 sec	17 sec	17 sec

Icon: S M Legend

Install Plugins

Download progress - Plugins [x] +

← → ↻ Not secure 44.204.90.143:8080/manage/pluginManager/updates/ ☆ Incognito Finish update

Dashboard > Manage Jenkins > Plugins

Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Icons API	Success
Folders	Success
OWASP Markup Formatter	Success
ASM API	Success
JSON Path API	Success
Struts	Success
Pipeline: Step API	Success
Token Macro	Success
Build Timeout	Success
bouncycastle API	Success
Credentials	Success
Plain Credentials	Success
Variant	Success
SSH Credentials	Success
Credentials Binding	Success
SCM API	Success
Pipeline: API	Success
commons-lang3 v3.x Jenkins API	Success

JDK Installation

Dashboard > Manage Jenkins > Tools

JDK installations

[Add JDK](#)

≡

JDK

×

Name

Java17

☒ Install automatically ?

≡

Install from adoptium.net ?

×

Version ?

jdk-17.0.5+8

Add Installer





[Add JDK](#)


Store Git Credentials/Token on Jenkins

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Global credentials (unrestricted) [+ Add Credentials](#)

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
 Jenkins-Agent	ubuntu (Jenkins-Agent)	SSH Username with private key	Jenkins-Agent 
 JenkinsPOC	JenkinsPOC/***** (JenkinsPOC)	Username with password	JenkinsPOC 

Icon: S M 

Create Pipeline script(Jenkinsfile) for Build & Test Artifacts and create CI job on Jenkins

Registerapp / Jenkinsfile in main

Cancel changes Commit changes...

Edit Preview Code 55% faster with GitHub Copilot Spaces 2 No wrap

```
1 pipeline {
2   agent { label 'Jenkins-Agent' }
3   tools {
4     jdk 'Javal7'
5     maven 'Maven3'
6   }
7   stages{
8     stage("Cleanup Workspace"){
9       steps {
10         cleanWs()
11       }
12     }
13     stage("Checkout from SCM"){
14       steps {
15         | git branch: 'main', credentialsId: 'github' , url: 'https://github.com/CloudRespoProject/Registerapp'
16       }
17     }
18     stage("Build Application"){
19       steps {
20         sh "mvn clean package"
21       }
22     }
23     stage("Build Application"){
24       steps {
25         sh "mvn clean package"
26       }
27     }
28     stage("Test Application"){
```

Use Control + Shift + to toggle the 'tab' key moving focus. Alternatively, use 'esc' then 'tab' to move to the next interactive element on the page.

Jenkins

Search (CTRL+K)

Payal Deval log out

Dashboard > register-app-ci >

Status

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

register-app-ci

Add description

Permalinks

- Last build (#19), 29 sec ago
- Last stable build (#19), 29 sec ago
- Last successful build (#19), 29 sec ago
- Last completed build (#19), 29 sec ago

Builds

Filter

Today

#19 12:46 AM

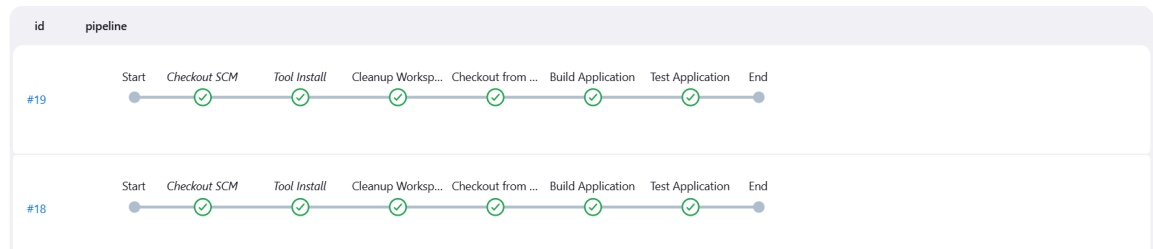
December 6, 2024

#18 11:37 PM

Build register-app-ci

▶ Build

Configure



Install and Configure SonarQube

Install PostgreSQL

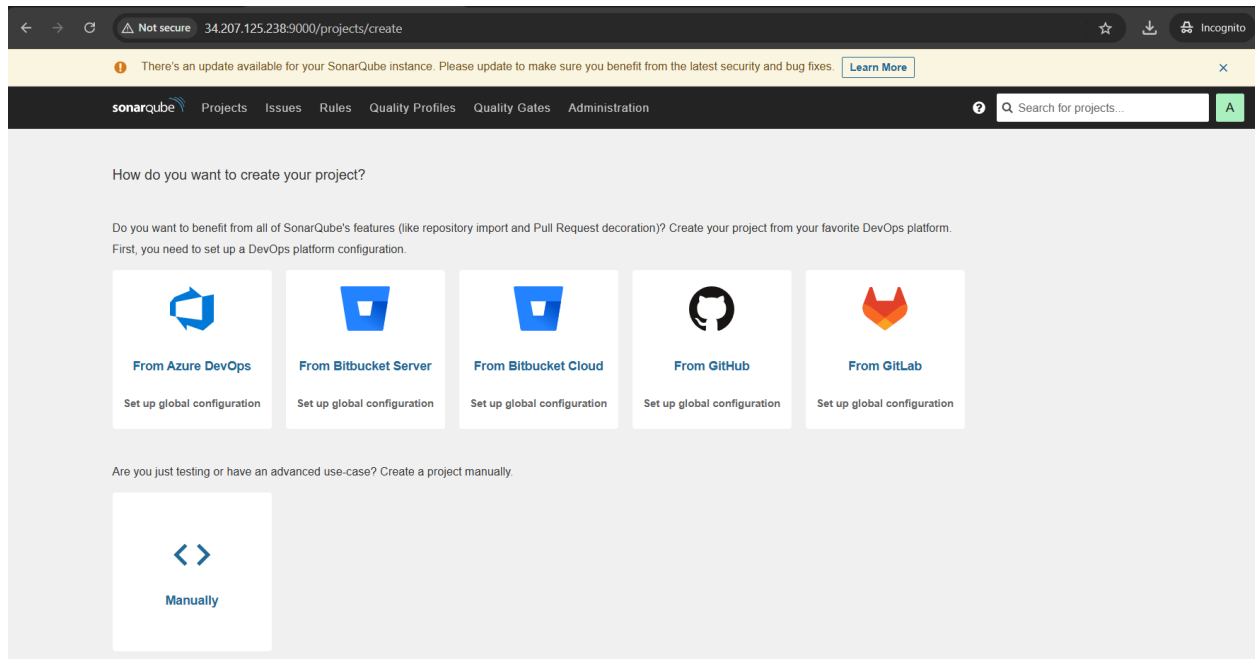
```
ubuntu@ip-172-31-83-247:~$ sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'
ubuntu@ip-172-31-83-247:~$ wget -qO- https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo tee /etc/apt/trusted.gpg.d/pgdg.asc &>/dev/null
ubuntu@ip-172-31-83-247:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:5 http://apt.postgresql.org/pub/repos/apt noble-pgdg InRelease [129 kB]
Get:6 http://apt.postgresql.org/pub/repos/apt noble-pgdg/main amd64 Packages [308 kB]
Fetched 437 kB in 1s (391 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-83-247:~$ sudo apt-get -y install postgresql postgresql-contrib
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcommon-sense-perl libio-pty-perl libipc-run-perl libjson-perl libjson-xs-perl liblvm1t64 libpq5 libtypes-serialiser-perl postgresql-17 postgresql-client-17
  postgresql-client-common postgresql-common ssl-cert
Suggested packages:
  postgresql-doc postgresql-doc-17
The following NEW packages will be installed:
  libcommon-sense-perl libio-pty-perl libipc-run-perl libjson-perl libjson-xs-perl liblvm1t64 libpq5 libtypes-serialiser-perl postgresql postgresql-17
  postgresql-client-17 postgresql-client-common postgresql-common postgresql-contrib ssl-cert
0 upgraded, 15 newly installed, 0 to remove and 0 not upgraded.
Need to get 46.1 MB of archives.
After this operation, 186 MB of additional disk space will be used.
```

```
root@ip-172-31-83-247:/home/ubuntu# sudo tail -f /opt/sonarqube/logs/sonar.log
2024.12.07 16:11:43 INFO app[[o.s.a.SchedulerImpl] Waiting for Elasticsearch to be up and running
2024.12.07 16:11:59 INFO app[[o.s.a.SchedulerImpl] Process[es] is up
2024.12.07 16:11:59 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[WEB_SERVER] from [/opt/sonarqube]: /usr/lib/jvm/temurin-17-jdk-amd64/bin/java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=/opt/sonarqube/temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.management.internal=ALL-UNNAMED -Dcom.redhat.fips=false -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost[127.*][:11] -cp ./lib/sonar-application-9.9.0.65466.jar:/opt/sonarqube/lib/jdbc/postgresql/postgresql-42.5.1.jar org.sonar.server.app.WebServer /opt/sonarqube/temp/sq-process4576268987037384606.properties
2024.12.07 16:12:14 INFO app[[o.s.a.SchedulerImpl] Process[web] is up
2024.12.07 16:12:14 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[COMPUTE_ENGINE] from [/opt/sonarqube]: /usr/lib/jvm/temurin-17-jdk-amd64/bin/java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=/opt/sonarqube/temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.management.internal=ALL-UNNAMED -Dcom.redhat.fips=false -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost[127.*][:11] -cp ./lib/sonar-application-9.9.0.65466.jar:/opt/sonarqube/lib/jdbc/postgresql/postgresql-42.5.1.jar org.sonar.ce.app.CeServer /opt/sonarqube/temp/sq-process4663735358281162722.properties
2024.12.07 16:12:16 WARN app[[startup] #####
2024.12.07 16:12:16 WARN app[[startup] Default Administrator credentials are still being used. Make sure to change the password or deactivate the account.
2024.12.07 16:12:21 INFO app[[o.s.a.SchedulerImpl] Process[ce] is up
2024.12.07 16:12:21 INFO app[[o.s.a.SchedulerImpl] SonarQube is operational
^Z
[4]+ Stopped sudo tail -f /opt/sonarqube/logs/sonar.log
root@ip-172-31-83-247:/home/ubuntu#
```

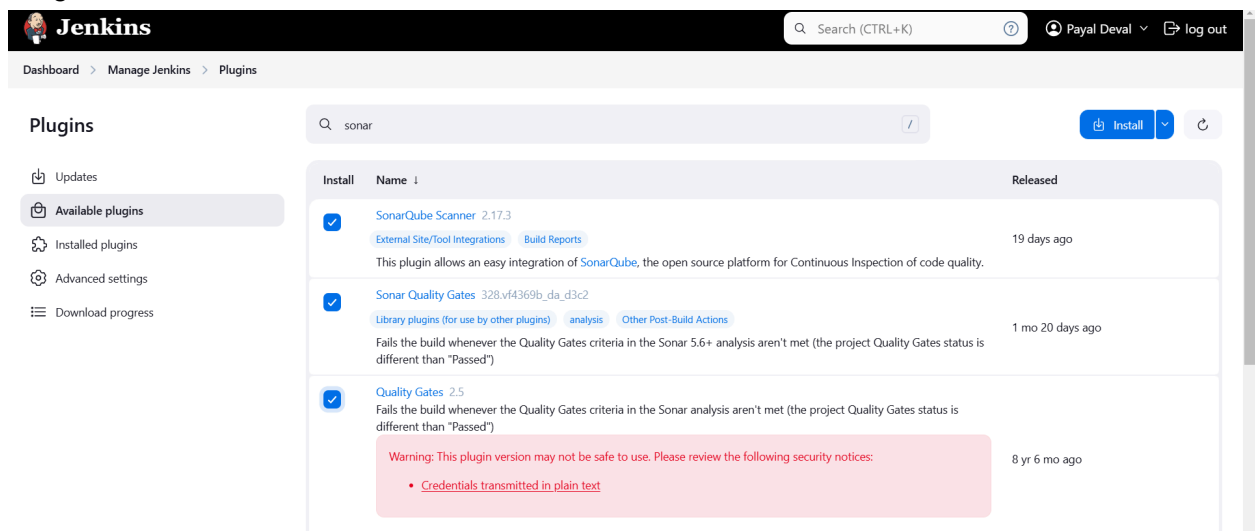
i-0bf0c0eee5f093652 (SonarQube)

PublicIPs: 34.207.125.238 PrivateIPs: 172.31.83.247








Integrate SonarQube with Jenkins



Plugins


- Updates
- Available plugins
- Installed plugins
- Advanced settings

Name	Enabled
Quality Gates Plugin 2.5 Fails the build whenever the Quality Gates criteria in the Sonar analysis aren't met (the project Quality Gates status is different than "Passed") Report an issue with this plugin <div>Warning: The currently installed plugin version may not be safe to use. Please review the following security notices:<ul style="list-style-type: none">Credentials transmitted in plain text</div>	<input checked="" type="checkbox"/> 
Sonar Quality Gates Plugin 328.vf4369b_da_d3c2 Fails the build whenever the Quality Gates criteria in the Sonar 5.6+ analysis aren't met (the project Quality Gates status is different than "Passed") Report an issue with this plugin	<input checked="" type="checkbox"/> 
SonarQube Scanner for Jenkins 2.17.3 This plugin allows an easy integration of SonarQube , the open source platform for Continuous Inspection of code quality. Report an issue with this plugin	<input checked="" type="checkbox"/> 

< Build #25

[Rebuild](#) [Console](#) [Configure](#)


Pipeline



Details

- Manually run by Payal Deval
- Started 3 min 1 sec ago
- Queued 2 ms
- Took 55 sec

< Build #25

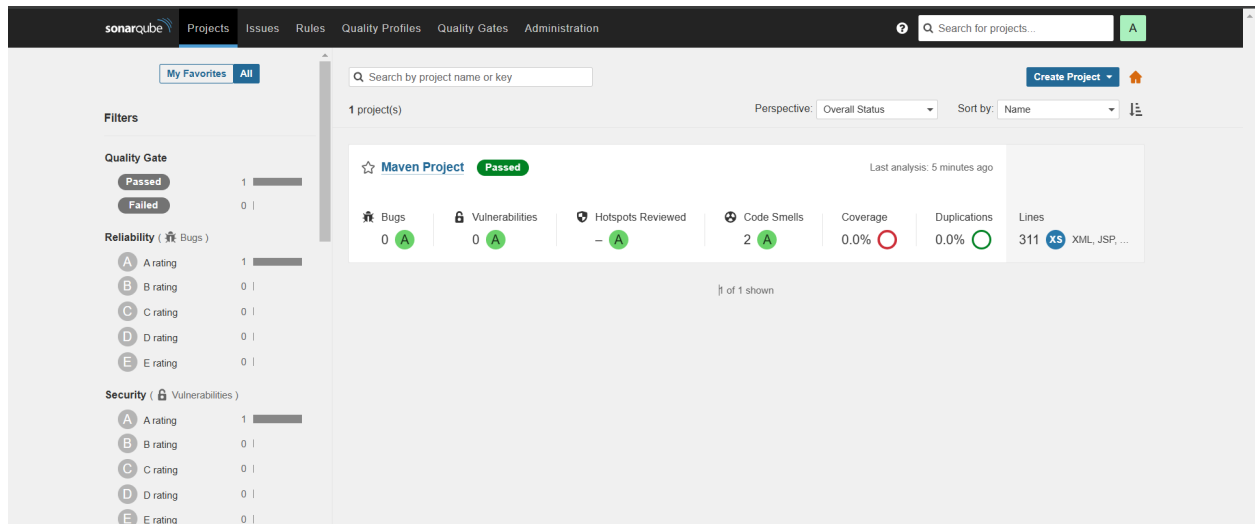
[Rebuild](#) [Overview](#) [Configure](#) 

Success 5 min 19 sec ago in 55 sec

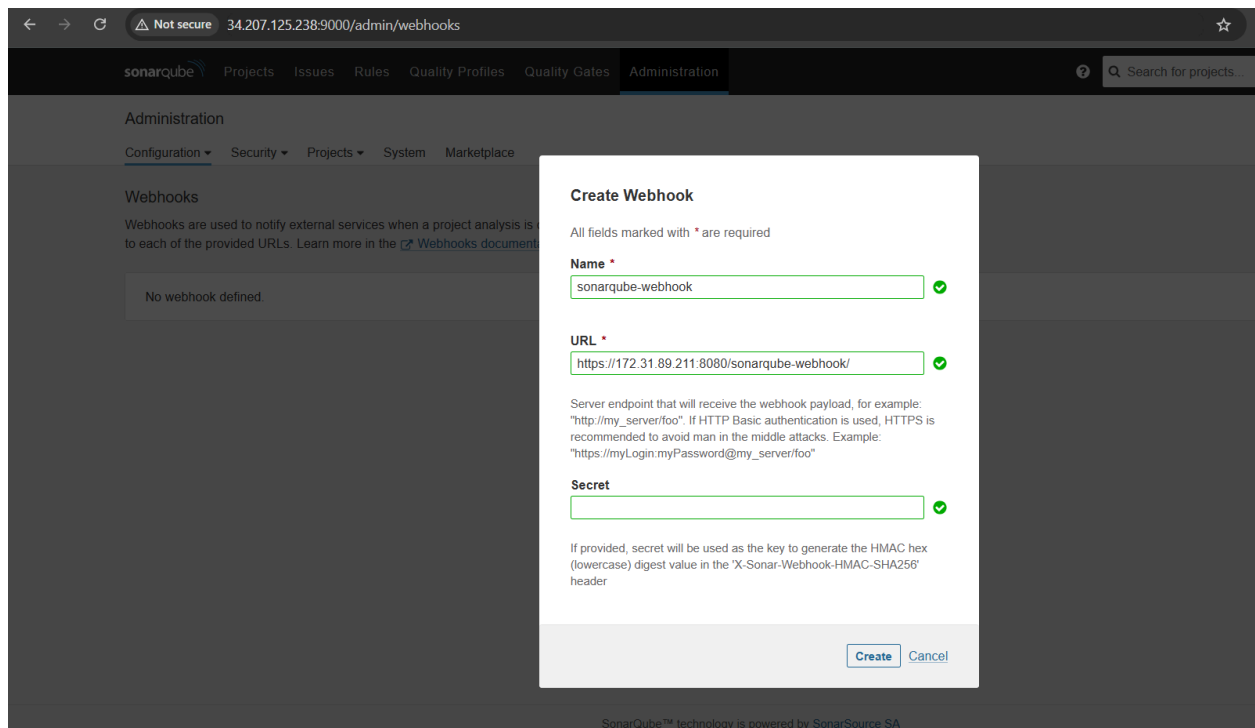
- Checkout SCM
- Tool Install
- Cleanup Workspace
- Checkout from SCM
- Build Application
- Test Application
- SonarQube Analysis

```
346 [INFO] 17:06:44.840 Analysis report compressed in 40ms, zip size=30.2 kB
347 [INFO] 17:06:45.281 Analysis report uploaded in 440ms
348 [INFO] 17:06:45.285 ANALYSIS SUCCESSFUL, you can find the results at: http://172.31.83.247:9000/dashboard?id=com.example.maven-project%3Amaven-project
349 [INFO] 17:06:45.285 Note that you will be able to access the updated dashboard once the server has processed the submitted analysis repor
350 [INFO] 17:06:45.285 More about the report processing at http://172.31.83.247:9000/api/ce/task?id=AZ0iFOWFI1EH2MTZX2NE
351 [INFO] 17:06:45.316 Analysis total time: 14.376 s
352 [INFO] -----
353 [INFO] Reactor Summary for Maven Project 1.0-SNAPSHOT:
354 [INFO]
355 [INFO] Maven Project ..... SUCCESS [ 19.265 s]
356 [INFO] Server ..... SKIPPED
357 [INFO] Webapp ..... SKIPPED
358 [INFO] -----
359 [INFO] BUILD SUCCESS
360 [INFO] -----
361 [INFO] Total time: 22.603 s
362 [INFO] Finished at: 2024-12-07T17:06:45Z
```

[Scroll to Bottom](#)




Create SonarQube Webhook



Build to test SonarQube

← → ↻ ⚠ Not secure 44.204.90.143:8080/job/register-app-ci/32/pipeline-graph/ ☆ ⬇ Incognito Finish update ⋮

 **Jenkins**

🔍 Search (CTRL+K) ⓘ

👤 Payal Deval ▾

🚪 log out

Dashboard > register-app-ci > #32 > Pipeline Overview

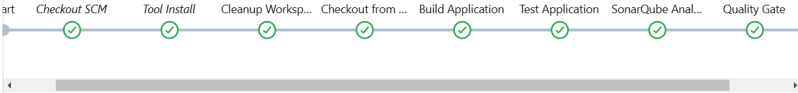
✔ < Build #32

▶ Rebuild

📄 Console

⚙ Configure

Pipeline




Details

👤 Manually run by Payal Deval

🕒 Started 1 min 0 sec ago

⌚ Queued 3 ms

🕒 Took 38 sec

 **Jenkins**

🔍 Search (CTRL+K) ⓘ

👤 Payal Deval ▾

🚪 log out

Dashboard > register-app-ci > #32 > Pipeline Console

✔ < Build #32

▶ Rebuild

🔗 Overview

⚙ Configure

⋮

Success 1 min 33 sec ago in 38 sec

✔ Checkout SCM

✔ Tool Install

✔ Cleanup Workspace

✔ Checkout from SCM

✔ Build Application

✔ Test Application

✔ SonarQube Analysis

✔ Quality Gate

✔ Success

🔗 View as plain text

✔ **Java17**

Use a tool from a predefined Tool Installation

37 ms

🔗

🔗

⌵

✔ **Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.**

42 ms

🔗

🔗

⌵

✔ **Maven3**

Use a tool from a predefined Tool Installation

45 ms

🔗

🔗

⌵

✔ **Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.**

46 ms

🔗

🔗

⌵

✔ **Wait for SonarQube analysis to be completed and return quality gate status**

2 sec

🔗

🔗

⬆

0 Checking status of SonarQube task 'AZ0I7CsB1EH2MTzXzNL' on server 'sonarqube-server'

1 SonarQube task 'AZ0I7CsB1EH2MTzXzNL' status is 'PENDING'

2 SonarQube task 'AZ0I7CsB1EH2MTzXzNL' status is 'SUCCESS'

3 SonarQube task 'AZ0I7CsB1EH2MTzXzNL' completed, Quality gate is 'OK'

Build and Push Docker Image using Pipeline Script

 **Jenkins**

Search (CTRL+K) ?

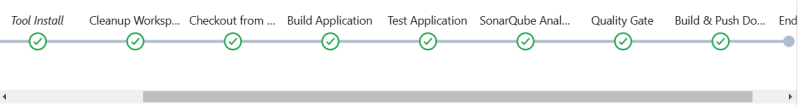
Payal Deval log out

Dashboard > register-app-ci > #48 > Pipeline Overview

✓ < Build #48

[Rebuild](#)[Console](#)[Configure](#)

Pipeline



Details

- Manually run by Payal Deval
- Started 3 min 46 sec ago
- Queued 2 ms
- Took 1 min 14 sec

 **Jenkins**

Search (CTRL+K) ?

Payal Deval log out

Dashboard > register-app-ci > #48 > Pipeline Console

✓ < Build #48

[Rebuild](#)[Overview](#)[Configure](#)[...](#)

Success 4 min 42 sec ago in 1 min 14 sec

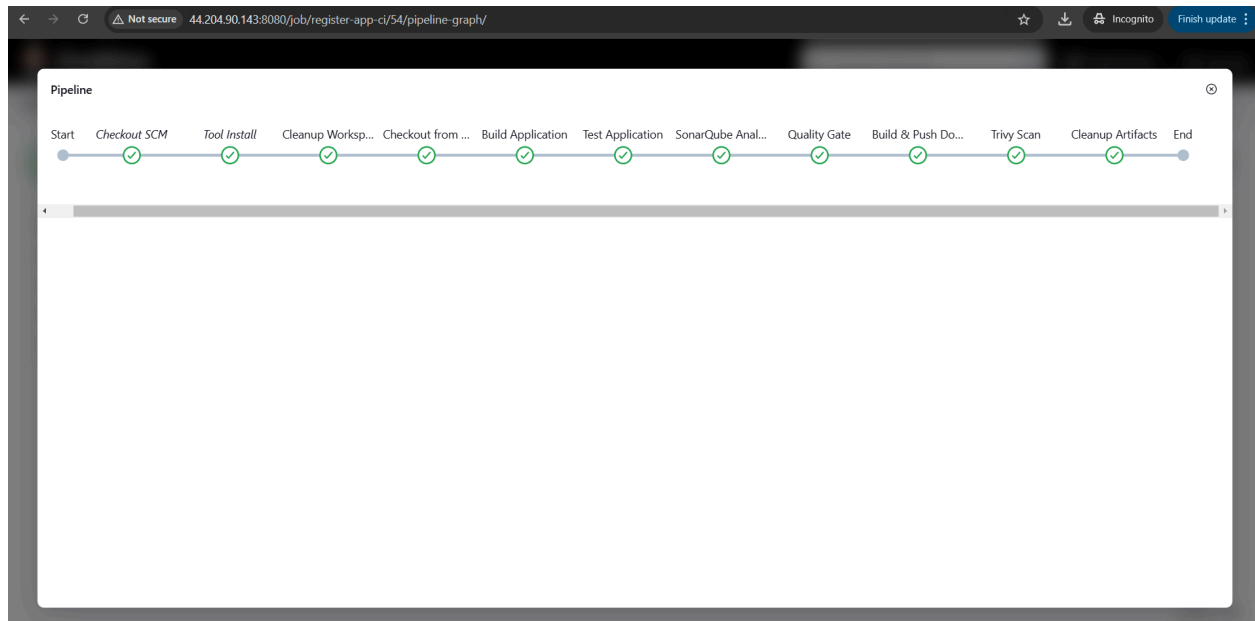
- ✓ Checkout SCM
- ✓ Tool Install
- ✓ Cleanup Workspace
- ✓ Checkout from SCM
- ✓ Build Application
- ✓ Test Application
- ✓ SonarQube Analysis
- ✓ Quality Gate
- ✓ Build & Push Docker Image

Stage 'Build & Push Docker Image'

Started 4 min 0 sec ago
Queued 0 ms
Took 31 sec
Success
[View as plain text](#)

- ✓ **Java17**
Use a tool from a predefined Tool Installation 47 ms
- ✓ **Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 49 ms
- ✓ **Maven3**
Use a tool from a predefined Tool Installation 51 ms
- ✓ **Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 56 ms
- ✓ **Checks if running on a Unix-like node** 41 ms

Trivy scan & Clean Artifact



Setup Bootstrap Server for eksctl and Setup Kubernetes using eksctl

```
root@ip-172-31-23-187:/tmp# eksctl version
0.197.0
root@ip-172-31-23-187:/tmp# eksctl create cluster --name eks-cluster-POC \
> --region us-east-1 \
> --node-type t2.small \
> --nodes 3 \
>
```

Stacks (9)

Filter by stack name

Filter status: Active View nested

Stacks

- eksctl-eks-cluster-POC-nodegroup-ng-35caea05
2024-12-09 12:25:59 UTC-0500
CREATE_COMPLETE
- eksctl-eks-cluster-POC-cluster**
2024-12-09 12:13:56 UTC-0500
CREATE_COMPLETE
- eksctl-Tech-cluster-POC-1-cluster
2024-12-08 12:20:28 UTC-0500
ROLLBACK_COMPLETE
- eksctl-Tech-cluster-POC-cluster
2024-12-08 12:19:58 UTC-0500

eksctl-eks-cluster-POC-cluster

Stack info Events - updated Resources Outputs Parameters Template Change sets Git sync

Overview

Stack ID
arn:aws:cloudformation:us-east-1:590183770185:stack/eksctl-eks-cluster-POC-cluster/f8efaab0-b650-11ef-9a58-122d32824d1f

Description
EKS cluster (dedicated VPC: true, dedicated IAM: true) [created and managed by eksctl]

Status
CREATE_COMPLETE

Status reason
-

Parent stack
-

Created time
2024-12-09 12:13:56 UTC-0500

Updated time
-

Deleted time
-

Last drift check time
-

Detailed status
-

Root stack
-

Drift status
NOT_CHECKED

Termination protection
-

Stacks (9)

Filter by stack name

Filter status: Active View nested

Stacks

- eksctl-eks-cluster-POC-nodegroup-ng-35caea05
2024-12-09 12:25:59 UTC-0500
CREATE_COMPLETE
- eksctl-eks-cluster-POC-cluster**
2024-12-09 12:13:56 UTC-0500
CREATE_COMPLETE
- eksctl-Tech-cluster-POC-1-cluster
2024-12-08 12:20:28 UTC-0500
ROLLBACK_COMPLETE
- eksctl-Tech-cluster-POC-cluster
2024-12-08 12:19:58 UTC-0500

Resources (26)

Search resources

Logical ID	Physical ID	Type	Status	Module
ControlPlane	eks-cluster-POC	AWS::EKS::Cluster	CREATE_COMPLETE	-
ControlPlaneSecurityGroup	sg-098754b137b72e47d	AWS::EC2::SecurityGroup	CREATE_COMPLETE	-
IngressDefaultClusterToNodeSG	sg-049cc0457c4234d42	AWS::EC2::SecurityGroupIngress	CREATE_COMPLETE	-
IngressInterNodeGroupSG	sg-0bef622727d033b51	AWS::EC2::SecurityGroupIngress	CREATE_COMPLETE	-
IngressNodeToDefaultClusterSG	sg-0badfb3f91e7c95a7	AWS::EC2::SecurityGroupIngress	CREATE_COMPLETE	-
InternetGateway	igw-05034b1afdc2399e7	AWS::EC2::InternetGateway	CREATE_COMPLETE	-
NATGateway	nat-088a14b45859acfe3	AWS::EC2::NatGateway	CREATE_COMPLETE	-
NATIP	52.71.247.25	AWS::EC2::EIP	CREATE_COMPLETE	-
NATPrivateSubnetRouteUSEAST1B	rtb-0e4da0cf49a033aff0.0.0.0/16	AWS::EC2::Route	CREATE_COMPLETE	-

Amazon Elastic Kubernetes Service

Clusters

- Amazon EKS Anywhere
 - Enterprise Subscriptions [New](#)
- Related services
 - Amazon ECR
 - AWS Batch

Console settings
Documentation [\[?\]](#)
Submit feedback

Node group configuration [info](#)

Kubernetes version 1.30	AMI type info AL2_x86_64	Launch template eksctl-eks-cluster-POC-nodegroup-ng-35caea05	Status ✔ Active
AMI release version info 1.30.6-20241121	Instance types t2.small	Launch template version 1	Disk size Specified in launch template

Details | Nodes | Health issues 0 | Kubernetes labels | Update config | Kubernetes taints | Update history | Tags

Details

Node group ARN arn:aws:eks:us-east-1:59018377018:5nodegroup/eks-cluster-POC/ng-35caea05/72c9d63a-9713-dd58-d189-cc0e0507b9ee	Autoscaling group name eks-ng-35caea05-72c9d63a-9713-dd58-d189-cc0e0507b9ee	Capacity type On-Demand	Subnets subnet-00e2bab29f608520f subnet-072c3b9ba71f574da
Created an hour ago	Node IAM role ARN arn:aws:iam::59018377018:role/eksctl-eks-cluster-POC-nodegroup-n-NoDeInstanceRole-WzpwovFaEHF9 View in IAM	Desired size 3 nodes	Configure remote access to nodes off
		Minimum size 3 nodes	
		Maximum size 3 nodes	

```
aws [Search] [Alt+S] [Icons] N. Virginia ▼ devalpayal069 [Search]
```

```
ubuntu@ip-172-31-23-187:~$ kubectl get nodes
NAME                                STATUS    ROLES    AGE   VERSION
ip-192-168-40-9.ec2.internal        Ready    <none>   65m   v1.30.6-eks-94953ac
ip-192-168-55-192.ec2.internal      Ready    <none>   65m   v1.30.6-eks-94953ac
ip-192-168-9-221.ec2.internal       Ready    <none>   65m   v1.30.6-eks-94953ac
ubuntu@ip-172-31-23-187:~$ kubectl get cluster
error: the server doesn't have a resource type "cluster"
ubuntu@ip-172-31-23-187:~$ eksctl get cluster
NAME    REGION    EKSCTL_CREATED
eks-cluster-poc us-east-1    True
ubuntu@ip-172-31-23-187:~$ kubectl get pods
No resources found in default namespace.
ubuntu@ip-172-31-23-187:~$
```

Create Namespace

```
ubuntu@ip-172-31-23-187:~$ kubectl create namespace argocd
namespace/argocd created
ubuntu@ip-172-31-23-187:~$ kubectl get all namespace
error: you must specify only one resource
ubuntu@ip-172-31-23-187:~$ kubectl get namespace
NAME                STATUS    AGE
argocd              Active   65s
default             Active   85m
kube-node-lease     Active   85m
kube-public         Active   85m
kube-system         Active   85m
```

ArgoCD Installation on EKS Cluster and add EKS Cluster to ArgoCD

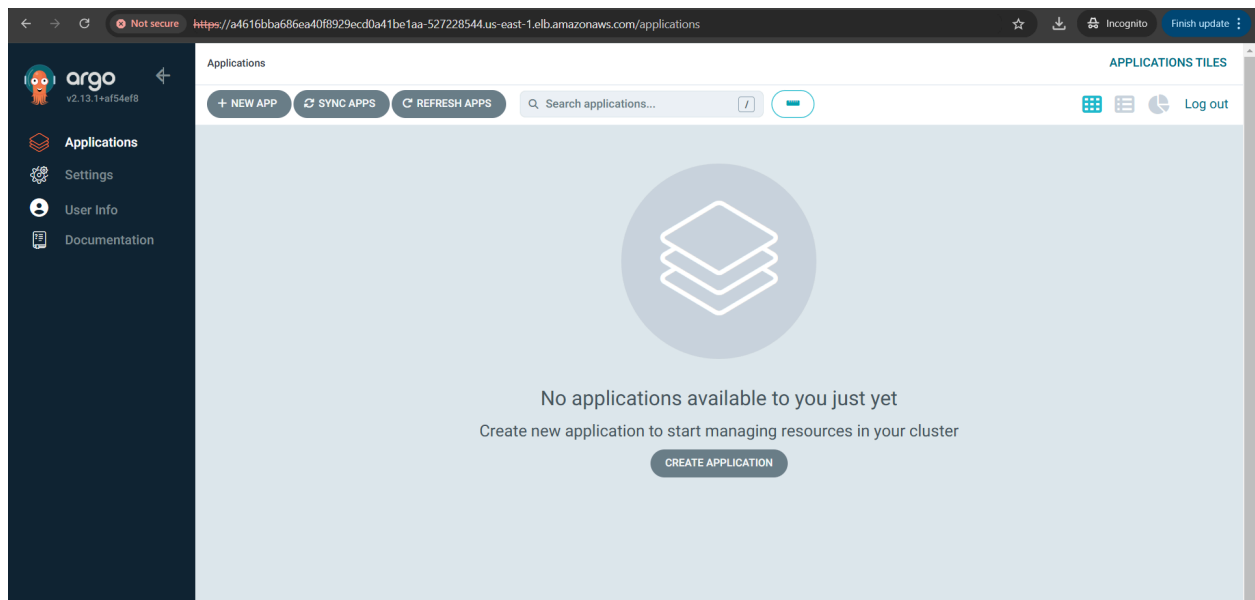
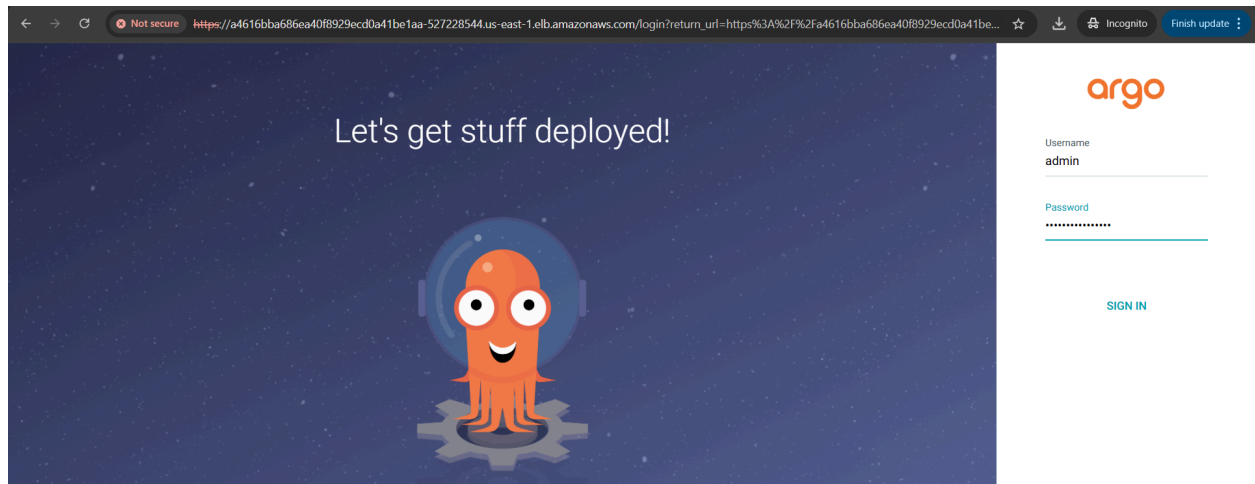
aws [grid icon] Search [Alt+S]

```
ubuntu@ip-172-31-23-187:~$ kubectl get pods -n argocd
NAME                                READY   STATUS    RESTARTS   AGE
argocd-application-controller-0     1/1     Running   0           88s
argocd-applicationset-controller-6899bbc884-65twh  1/1     Running   0           89s
argocd-dex-server-bcf886644-5wk9d    1/1     Running   2 (72s ago)  89s
argocd-notifications-controller-64fb4bc4f9-665rc  1/1     Running   0           89s
argocd-redis-6cbf9bf4c5-cdxn6       1/1     Running   0           89s
argocd-repo-server-b5d548b6c-g8psm   1/1     Running   0           88s
argocd-server-65bc9998bd-rkdgb       1/1     Running   0           88s
ubuntu@ip-172-31-23-187:~$
```

LoadBalancer in ArgoCD Namespace

```
root@ip-172-31-23-187:/home/ubuntu# kubectl get svc -n argocd
NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)
argocd-applicationset-controller    ClusterIP           10.100.218.245  <none>           7000/TCP,8080/TCP
argocd-dex-server                  ClusterIP           10.100.130.50   <none>           5556/TCP,5557/TCP,8082/TCP
argocd-metrics                     ClusterIP           10.100.183.73   <none>           8082/TCP
argocd-notifications-controller-metrics  ClusterIP           10.100.172.165  <none>           9001/TCP
argocd-redis                       ClusterIP           10.100.129.135  <none>           6379/TCP
argocd-repo-server                 ClusterIP           10.100.173.251  <none>           8081/TCP,8084/TCP
argocd-server                      LoadBalancer       10.100.62.105   a4616bba686ea40f8929ecd0a41belaa-527228544.us-east-1.elb.amazonaws.com  80:31007/TCP,443:31007/TCP
argocd-server-metrics              ClusterIP           10.100.34.134   <none>           8083/TCP
root@ip-172-31-23-187:/home/ubuntu#
```

Login to ArgoCD using the provided URL in the SVC



Add EKS Cluster to the ArgoCD Cluster

Login to ArgoCD using CLI

```
root@ip-172-31-23-187:~# argocd login a4616bba686ea40f8929ecd0a41be1aa-527228544.us-east-1.elb.amazonaws.com --username admin
WARNING: server certificate had error: x509: certificate is valid for localhost, argocd-server, argocd-server.argocd, argocd-server.argocd.svc, argocd-server.argocd.svc.cluster.local, not a4616bba686ea40f8929ecd0a41be1aa-527228544.us-east-1.elb.amazonaws.com. Proceed insecurely (y/n)? y
Password:
'admin:login' logged in successfully
Context 'a4616bba686ea40f8929ecd0a41be1aa-527228544.us-east-1.elb.amazonaws.com' updated
root@ip-172-31-23-187:~#
```

Add a cluster to ArgoCD

```
root@ip-172-31-23-187:/home/ubuntu# argocd cluster add i-03e8737e9dce0be23@eks-cluster-POC.us-east-1.eksctl.io --name eks-cluster-argocd
WARNING: This will create a service account 'argocd-manager' on the cluster referenced by context 'i-03e8737e9dce0be23@eks-cluster-POC.us-east-1.eksctl.io' with full c
luster level privileges. Do you want to continue [y/N]? y
INFO[0002] ServiceAccount "argocd-manager" created in namespace "kube-system"
INFO[0002] ClusterRole "argocd-manager-role" created
INFO[0002] ClusterRoleBinding "argocd-manager-role-binding" created
INFO[0007] Created bearer token secret for ServiceAccount "argocd-manager"
Cluster 'https://591a1863f170a3859362ceb170e43b0c.y14.us-east-1.eks.amazonaws.com' added
root@ip-172-31-23-187:/home/ubuntu#
```

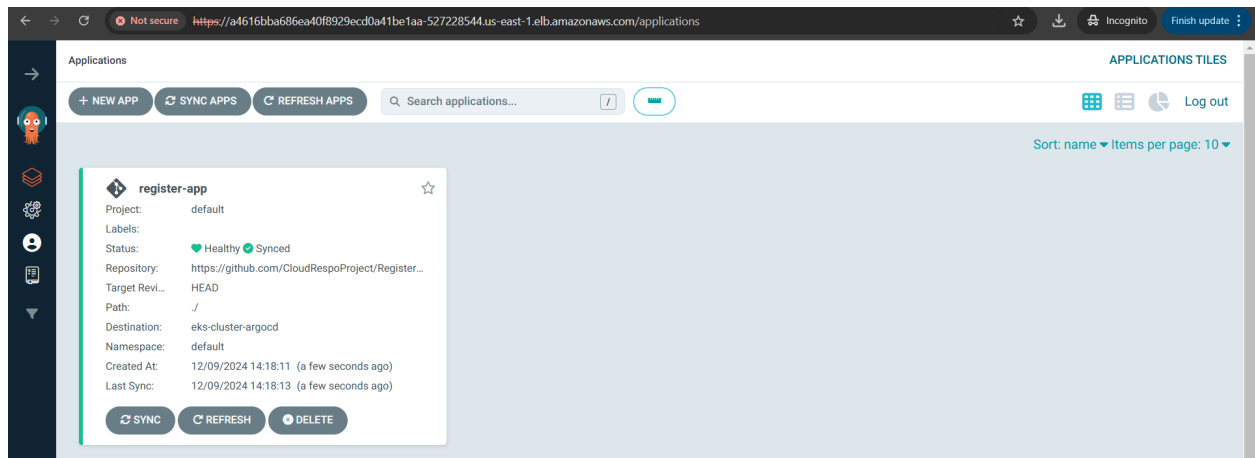
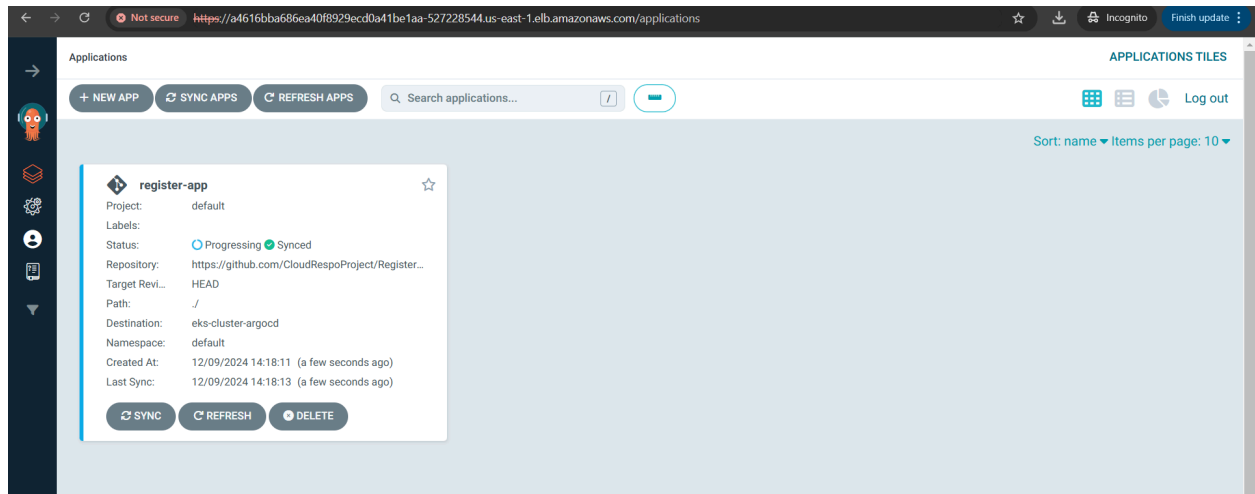
ArgoCD cluster list:

```
root@ip-172-31-23-187:/home/ubuntu# argocd cluster list
SERVER                                NAME                                VERSION  STATUS  MESSAGE
PROJECT
https://591a1863f170a3859362ceb170e43b0c.y14.us-east-1.eks.amazonaws.com  eks-cluster-argocd                    Unknown  Cluster has no appl
https://kubernetes.default.svc                                             in-cluster                            Unknown  Cluster has no appl
root@ip-172-31-23-187:/home/ubuntu#
```

The screenshot shows the ArgoCD web interface in a browser. The left sidebar contains the Argo logo and navigation links: Applications, Settings (selected), User Info, and Documentation. The main content area is titled 'Settings / Clusters' and includes a 'Log out' link. A message states: 'Refer to CLI [Documentation](#) for adding clusters.' Below this is a table listing the configured clusters.

NAME	URL	VERSION	CONNECTION STATUS
eks-cluster-argocd	https://591a1863f170a3859362ceb170e43b0c.y14.us-east-1.eks...		Unknown
in-cluster	https://kubernetes.default.svc		Unknown

Configure ArgoCD to deploy PODS on EKS and automate ArgoCD Deployment job using GitOps GitHub Repository



Applications / register-app

APPLICATION DETAILS LIST

DETAILS DIFF SYNC SYNC STATUS HISTORY AND ROLLBACK DELETE REFRESH

APP HEALTH **Healthy**

SYNC STATUS **Synced to HEAD (a79c1e7)**

LAST SYNC **Sync OK to a79c1e7**

Auto sync is enabled.
Author: Payal Deval <144565485+CloudRespoProject@users...>
Comment: Create service.yaml

Succeeded a minute ago (Mon Dec 09 2024 14:24:01 GMT+0500)
Author: Payal Deval <144565485+CloudRespoProject@users...>
Comment: Create service.yaml

Icon	Name	Type	Endpoints	Default	Last Sync	Status
ep	register-app-service	Endpoints	-	default	a minute ago 12/09/24	
pod	register-app-deployment-7dfc8dbc...	Pod	-	default	a minute ago 12/09/24	Healthy
pod	register-app-deployment-7dfc8dbc...	Pod	-	default	a minute ago 12/09/24	Healthy
svc	register-app-service	Service	-	default	a minute ago 12/09/24	Healthy Synced
deploy	register-app-deployment	apps/Deploy...	-	default	a minute ago 12/09/24	Healthy Synced
rs	register-app-deployment-7dfc8dbcf	apps/Replica...	-	default	a minute ago 12/09/24	Healthy
endpointlice	register-app-service-4k5j7	discovery.k8s...	-	default	a minute ago 12/09/24	

Applications / register-app

APPLICATION DETAILS TREE

DETAILS DIFF SYNC SYNC STATUS HISTORY AND ROLLBACK DELETE REFRESH

APP HEALTH **Healthy**

SYNC STATUS **Synced to HEAD (a79c1e7)**

LAST SYNC **Sync OK to a79c1e7**

Auto sync is enabled.
Author: Payal Deval <144565485+CloudRespoProject@users...>
Comment: Create service.yaml

Succeeded 9 minutes ago (Mon Dec 09 2024 14:24:01 GMT+0500)
Author: Payal Deval <144565485+CloudRespoProject@users...>
Comment: Create service.yaml

aws Search [Alt+S]

```
root@ip-172-31-23-187:/home/ubuntu# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
register-app-deployment-7dfc8dbcf-gc2p5 1/1     Running   0           2m1s
register-app-deployment-7dfc8dbcf-tghvh 1/1     Running   0           2m1s
root@ip-172-31-23-187:/home/ubuntu#
```

```

root@ip-172-31-23-187:/home/ubuntu# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
register-app-deployment-7dfc8dbcf-gc2p5   1/1     Running   0          2m1s
register-app-deployment-7dfc8dbcf-tghvh   1/1     Running   0          2m1s
root@ip-172-31-23-187:/home/ubuntu# kubectl get svc
NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP                                          PORT(S)          AGE
kubernetes                         ClusterIP            10.100.0.1       <none>                                              443/TCP          126m
register-app-service               LoadBalancer        10.100.90.217    a92228d7dce014165be7b49ad90f5a11-1516512120.us-east-1.elb.amazonaws.com  8080:31843/TCP   2m26s
root@ip-172-31-23-187:/home/ubuntu#

```

Final Output of Application on Browser

← → ↻ ⚠ Not secure a92228d7dce014165be7b49ad90f5a11-1516512120.us-east-1.elb.amazonaws.com:8080/webapp/ ☆ ⬇ 🛡 Incognito Finish update ⋮

New user Register for DevOps Learning at Virtual TechBox Youtube Channel

Please fill in this form to create an account.

Enter Name
Enter mobile
Enter Email
Password
Repeat Password

By creating an account you agree to our [Terms & Privacy](#).

Already have an account? [Sign in](#).

Thank You

Happy Learning. See You Again.

Automate the Deployment process using Jenkins