**CONTINUOUS INTEGRATION ON AWS**

**TOOLS**

Code Commit>>Version Controller tool

Code Artifact>>Maven Repository

Code Build>>Build service

Code Deploy>>Artifact deployment Service

Sonarcloud>>Cloud based sonarqube

Checkstyle>>Code analysis from build job

Code pipeline>> Service to integrate jobs together

**WORKFLOW**

* AWS CONSOLE LOGIN
* CODE COMMIT

1.repo log

2.IAM user defining

3.SSh key for IAM

4.Exchange of keys between IAM

5.Source code fetch for git and locate to locate repo and push

* Code Artifact

1.Create IAM user

2.Install AWS CLI and config

3.Export Auth token

4.Update setting.xml file in source code

5.update pom.xml with repo

* Sonar cloud

1.Create cloud account

2.Generate token

3.Create SSM parameter with sonar details

4.Create build project

5.Update CodeBuild role to access SSM parameter

* Create notifications for SMS or slack
* Build project

1.Update pom.xml with artifact version with timestamp

2.Create variables in SSM in parameter store

3.Create build project

4.Update Code Build role to access SSM parameter store.

* **CREATE PIPELINE**

1.Code Commit

2.Test Code

3.Build

4.Deploy to S3 bucket

* **TEST PIPELINE**