Type of application

Programming language

Platform

Project name and project id

Repository—

Code commit & github-

Select the code IDE

Code

Build

Deploy

Pipeline

Integrate with jira

Monitor with cloud watch.

Edit the code in code commit

Add the stage in pipeline

Build with jenkins

integrate with IDE

project template:--

java spring, node express js, python ,php,ruby,go, asp, html.

Not having for bitbucket or gitlab

Code build all is same as github/bitbucket.

Pipeline have code build and codecommit and code deply

Deployment –s3,ecs, cloud formation,code deploy, beanstack, codedeploy to ecs

Code build

Select the repo i.e codecommit,github,bitbucket,s3,

Create build from jenkins in pipeline.

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| Code commit | Code build | Code deploy | Code pipeline | Code star |
| **Step 1: Prerequisites**  You must use a Git client that supports Git version 1.7.9 or later to connect to an AWS CodeCommit repository  **Step 2: Git credentials**  Create Git credentials for your IAM user, if you do not already have them. Download the credentials and save them in a secure location.  **Step 3: Clone the repository**  Clone your repository to your local computer and start working on code. | Name:  Source:  Bitbucket github  S3 codecommit  Give the authentication process for this  Bitbucket url and user name | Application  Compute platform  -ec2 instaces  -econtainer service  - lamda  Ec2  Amazon EC2 Auto Scaling groups, Amazon EC2 instances, and on-premises instances to add to this deployment  ---------------  Econtainer service  Give cluster and service  Lambda fullctions | Source providers:  S2  Code commit  Ecr, github.  Build:  Jenkins build---pipelien pilgin&publisher  Code build  Deploy:  Cloud formation  Code deploy  Elastic beanstack  Opsworks  Service catalog  Alexa skills kit  ECS  S3.  Release changes | Project templates:  Node js, expressjs, java spring, python Django, asp.net, html,go ,ruby,php  Aws platforms:  Ec2, lamda,  Beanstack.  Source provider:  Code commit, github.  Ide: configure for aws |
| https and ssh are both available  commit author emil commit id | Environment:  Build will runs in container and should map the docker images  Custome one or default once select and authentication process, select the repo of image | Source :  S3, github,  appspe |  | PIPELINE CREATES AUTOMITICALLY  Jira extension  Team members restrict |
| Rest of same as git | Build spec:  version: 0.2  env:  variables:  JAVA\_HOME: /usr/lib/jvm/java-8-openjdk-amd64"  parameter-store:  LOGIN\_PASSWORD: /CodeBuild/dockerLoginPassword  phases:  install:  commands:  - echo Entered the install phase...  - apt-get update -y  - apt-get install -y maven  finally:  - echo This always runs even if the update or install command fails  pre\_build:  commands:  - echo Entered the pre\_build phase...  - docker login –u User –p $LOGIN\_PASSWORD  finally:  - echo This always runs even if the login command fails  build:  commands:  - echo Entered the build phase...  - echo Build started on `date`  - mvn install  finally:  - echo This always runs even if the install command fails  post\_build:  commands:  - echo Entered the post\_build phase...  - echo Build completed on `date`  artifacts:  files:  - target/messageUtil-1.0.jar  discard-paths: yes  secondary-artifacts:  artifact1:  files:  - target/messageUtil-1.0.jar  discard-paths: yes  artifact2:  files:  - target/messageUtil-1.0.jar  discard-paths: yes  cache:  paths:  - '/root/.m2/\*\*/\*' |  |  |  |
|  | Artifacts:  Create a zip file in s3  Logs cloud watch |  |  |  |
|  | Start the build |  |  |  |
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| TYPE | SOURCE | BUILD | TEST | DEPLOY | MONITOR |
| LAMDA | CODE COMMIT | CODEBUILD | CODEBUILD | CLOUDFORMATION | CLOUDWATCH |
| BEANSTACK | CODECOMMIT | CODEBUILD | CODE BUILD | ELASTIC BEANSTACK | CLOUDWATCH |
| EC2 | CODE COMMIT | CODEBUILD | CODEBUILD | CODE DEPLOY | CLOUDWATCH |
|  |  | CODE PIPELINE WHILE CREATES FOR ALL |  |  |  |