Section-11

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**Pre-requisites:**

1. **Code in local**
2. **Aws account mit repository in code commit**
3. **Iam user account to push code to codecommit. This user having permissions to push to codecommit.**
4. **Now create codecommit repo**
5. **Connect the local code with codecommit repos using ssh. Later you need to upload public key in iam user policy.**
6. **Now after proper configuration you can push local code to codecommit with below commands**

ssh-keygen

vim ~/.ssh/config

ssh git-codecommit.us-east-1.amazonaws.com

git clone https://github.com/hkhcoder/vprofile-project.git

git branch -a | grep remotes | grep -v HEAD |cut -d / -f3 > /tmp/br

for i in `cat /tmp/br`; do git checkout $i; done

git remote add origin ssh://git-codecommit.us-east-1.amazonaws.com/v1/repos/rakesh-codecommit

git push origin --all

Aws code artifact:

Select maven central store

Created a repo in code artifact ( vprofile code artifact and maven central store)

Later in sonar cloud -> created organistion ,then in security generate a token, then new project

Then based on sonar buildspec.yml file some attributes values are stored in ssm param store

AWS code build:

* Now in code artifact maven central repo copy the url(in connection instructions) by selecting mvn .
* The above copied link should be modified in pom.xml, settings.xml
* Now copy from same codeartifact maven central repo the auth token(connection instructions->mvn)
* Change the sonar\_buildspec.yml to buildspec.yml and put in it root folder
* Copied token should be put in buildspec.yml, under commands
* And push all modifed code to aws codecommit

Now configure all necessary things in aws code build(also point to write branch). Create the new role in that configuration of codebuild. For this code build role you need to attach policies

Such as access to code artifact and and custom policy for reading the ssm param store values

Later ready to build and test application

77) Build jar file and store in s3:

* Initially only code build configuration is done. Create another codebuild project with path for buildspec in aws-files( here u need to replace with the auth token from mvn central)

And for the role you selected in aws code build, we need to attach awscodeartifact permission.

Now if you build , the jar file should be ready

**Code pipeline: this pipeline you configure initially codebuild(which builds the jar file from earlier step) and another stage for codeanalysis build(from previous buid) finally the deploy part is configured for deploying to s3. Also configure the sns notifications for email.**

Pipeline stages: source -> codeanalysis with sonar (codebuil)-> build jar (codebuild) -> deploytos3 (input jar will be from previous codebuild)

**Section-12 ( cd of java web application)**

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