* Build Service
* Run BDD & TDD including Unit Tests
* SonarQube Analysis (Static code analysis)
* Build Container Image (Docker based)
* Register Container Image in Amazon ECR (Push Docker Image)
* Deploy Container Image in Amazon ECS/Fargate

**JENKINS**:

* Jenkins URL - <http://18.221.253.92:9080/login> or <http://ec2-18-221-253-92.us-east-2.compute.amazonaws.com:9080/login>
* Jenkins Credentials
  + Username: admin
  + Password: jenkins
* JENKINS\_HOME="/var/lib/jenkins"
* Modified the Jenkins port to “9080”

**Git**

**UserName**: Sindhiya.P@cognizant.com-at-649771780791

**Password**: BhNogv9UZNr8tZ0ne21Q+Dn34jACYssg9wChId2HyYA=

**Aws**

**USERname**: [Sindhiya.P@cognizant.com](mailto:Sindhiya.P@cognizant.com)

Password: nzBsbCp4TIcZ Password1#

**Access key ID**: AKIAJ5DQ5BN74BR4RQFA

**Secret access key**: 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

**Link**: <https://649771780791.signin.aws.amazon.com/console>

Git links:

[**https://git-codecommit.us-east-2.amazonaws.com/v1/repos/exception-handling-helper**](https://git-codecommit.us-east-2.amazonaws.com/v1/repos/exception-handling-helper) **(Dependent Libraries for #3)**

[**https://git-codecommit.us-east-2.amazonaws.com/v1/repos/logger-helper**](https://git-codecommit.us-east-2.amazonaws.com/v1/repos/logger-helper) **(Dependent Libraries for #3)**

[**https://git-codecommit.us-east-2.amazonaws.com/v1/repos/supplier-service-repo**](https://git-codecommit.us-east-2.amazonaws.com/v1/repos/supplier-service-repo) **(Main Service Source Code)**

[‎7/‎19/‎2018 5:21 PM] K, Anunandhini (Cognizant):

https://aerben.me/2017/docker-maven-1/

https://github.com/spotify/docker-maven-plugin

https://github.com/spotify/dockerfile-maven

This conversation is being saved. You'll see it soon in your Outlook Inbox folder.

[‎7/‎20/‎2018 4:05 PM] K, Anunandhini (Cognizant):

sync; echo 3 > /proc/sys/vm/drop\_caches

[‎7/‎20/‎2018 4:19 PM] K, Anunandhini (Cognizant):

free -h

df -h

du -sch \* | grep G

#!/bin/bash

#Constants

REGION=us-east-2

REPOSITORY\_NAME=649771780791.dkr.ecr.us-east-2.amazonaws.com/supplier-api

CLUSTER=supplier-api-

FAMILY=`sed -n 's/.\*"family": "\(.\*\)",/\1/p' taskdef.json`

NAME=`sed -n 's/.\*"name": "\(.\*\)",/\1/p' taskdef.json`

SERVICE\_NAME=${NAME}-service

#Store the repositoryUri as a variable

REPOSITORY\_URI=`aws ecr describe-repositories --repository-names ${REPOSITORY\_NAME} --region ${REGION} | jq .repositories[].repositoryUri | tr -d '"'`

#Replace the build number and respository URI placeholders with the constants above

sed -e "s;%BUILD\_NUMBER%;${BUILD\_NUMBER};g" -e "s;%REPOSITORY\_URI%;${REPOSITORY\_URI};g" taskdef.json > ${NAME}-v\_${BUILD\_NUMBER}.json

#Register the task definition in the repository

aws ecs register-task-definition --family ${FAMILY} --cli-input-json file://${WORKSPACE}/${NAME}-v\_${BUILD\_NUMBER}.json --region ${REGION}

SERVICES=`aws ecs describe-services --services ${SERVICE\_NAME} --cluster ${CLUSTER} --region ${REGION} | jq .failures[]`

#Get latest revision

REVISION=`aws ecs describe-task-definition --task-definition ${NAME} --region ${REGION} | jq .taskDefinition.revision`

#Create or update service

if [ "$SERVICES" == "" ]; then

echo "entered existing service"

DESIRED\_COUNT=`aws ecs describe-services --services ${SERVICE\_NAME} --cluster ${CLUSTER} --region ${REGION} | jq .services[].desiredCount`

if [ ${DESIRED\_COUNT} = "0" ]; then

DESIRED\_COUNT="1"

fi

aws ecs update-service --cluster ${CLUSTER} --region ${REGION} --service ${SERVICE\_NAME} --task-definition ${FAMILY}:${REVISION} --desired-count ${DESIRED\_COUNT}

else

echo "entered new service"

aws ecs create-service --service-name ${SERVICE\_NAME} --desired-count 1 --task-definition ${FAMILY} --cluster ${CLUSTER} --region ${REGION}

fi

$ aws configure

AWS Access Key ID: AKIAJ5DQ5BN74BR4RQFA

AWS Secret Access Key: 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

Default region name: us-east-2

Default output format:json

/home/ec2-user/workspace

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User name | Password |  | Access key ID | Secret access key | Console login link |
| Thanigaivelan.Sankaralingam@cognizant.com |  |  | AKIAIHR2QPU33BARGDOQ | 6iXdk1fBaHAGccR9KGQG/TX1QorGPiUf2yhF18ye | <https://649771780791.signin.aws.amazon.com/console> |
| [Sindhiya.P@cognizant.com](mailto:Sindhiya.P@cognizant.com) |  |  | AKIAJ5DQ5BN74BR4RQFA | FiWeV151g5RU6TQg3B6RdVS7UzE7kG5WsnEuatXa | <https://649771780791.signin.aws.amazon.com/console> |

|  |  |  |
| --- | --- | --- |
| User name |  | Access key ID |
| Thanigaivelan.Sankaralingam@cognizant.com |  | AKIAIHR2QPU33BARGDOQ |
| [Sindhiya.P@cognizant.com](mailto:Sindhiya.P@cognizant.com) |  | AKIAJ5DQ5BN74BR4RQFA |

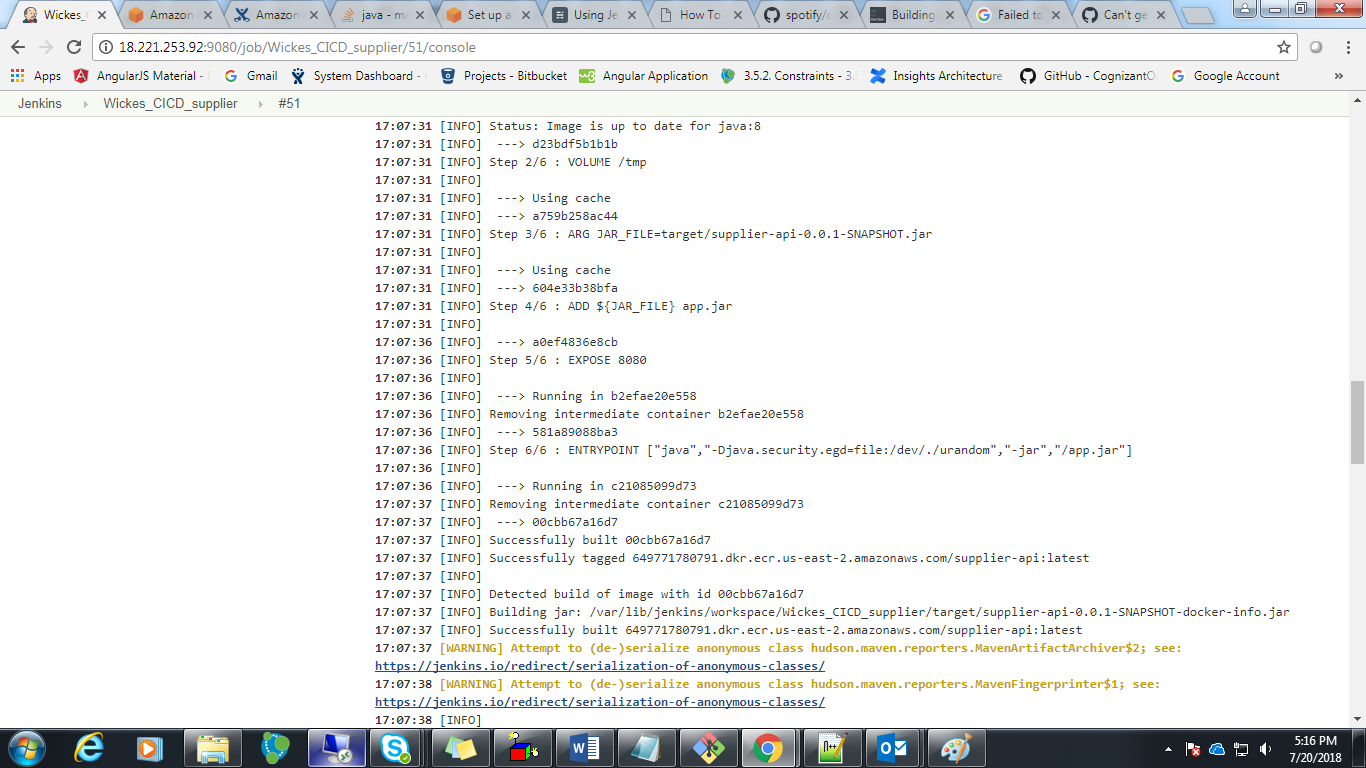
Password

BhNogv9UZNr8tZ0ne21Q+Dn34jACYssg9wChId2HyYA=

|  |
| --- |
| Secret access key |
| 6iXdk1fBaHAGccR9KGQG/TX1QorGPiUf2yhF18ye |
| FiWeV151g5RU6TQg3B6RdVS7UzE7kG5WsnEuatXa |

|  |
| --- |
| Console login link |
| <https://649771780791.signin.aws.amazon.com/console> |
| <https://649771780791.signin.aws.amazon.com/console> |

* 1. [**https://git-codecommit.us-east-2.amazonaws.com/v1/repos/exception-handling-helper**](https://git-codecommit.us-east-2.amazonaws.com/v1/repos/exception-handling-helper) **(Dependent Libraries for #3)**
  2. [**https://git-codecommit.us-east-2.amazonaws.com/v1/repos/logger-helper**](https://git-codecommit.us-east-2.amazonaws.com/v1/repos/logger-helper) **(Dependent Libraries for #3)**
  3. [**https://git-codecommit.us-east-2.amazonaws.com/v1/repos/supplier-service-repo**](https://git-codecommit.us-east-2.amazonaws.com/v1/repos/supplier-service-repo) **(Main Service Source Code)**
* ScdjWVYOsJZAqqjTBKUFK4YJTf577HfzczzWZOjI3mE=





aws ecs describe-task-definition --task-definition supplier-api-task:43

{

"taskDefinition": {

"status": "ACTIVE",

"memory": "1024",

"networkMode": "awsvpc",

"family": "supplier-api-task",

"placementConstraints": [],

"requiresAttributes": [

{

"name": "ecs.capability.execution-role-ecr-pull"

},

{

"name": "com.amazonaws.ecs.capability.docker-remote-api.1.18"

},

{

"name": "ecs.capability.task-eni"

},

{

"name": "com.amazonaws.ecs.capability.ecr-auth"

},

{

"name": "com.amazonaws.ecs.capability.task-iam-role"

},

{

"name": "ecs.capability.execution-role-awslogs"

},

{

"name": "com.amazonaws.ecs.capability.logging-driver.awslogs"

},

{

"name": "com.amazonaws.ecs.capability.docker-remote-api.1.21"

},

{

"name": "com.amazonaws.ecs.capability.docker-remote-api.1.19"

}

],

"cpu": "512",

"executionRoleArn": "arn:aws:iam::649771780791:role/ecsTaskExecutionRole",

"compatibilities": [

"EC2",

"FARGATE"

],

"volumes": [],

"requiresCompatibilities": [

"FARGATE"

],

"taskRoleArn": "arn:aws:iam::649771780791:role/ecsTaskExecutionRole",

"taskDefinitionArn": "arn:aws:ecs:us-east-2:649771780791:task-definition/supplier-api-task:43",

"containerDefinitions": [

{

"memoryReservation": 800,

"environment": [],

"name": "supplier-api-container",

"mountPoints": [],

"image": "649771780791.dkr.ecr.us-east-2.amazonaws.com/supplier-api:latest",

"cpu": 0,

"portMappings": [

{

"protocol": "tcp",

"containerPort": 8080,

"hostPort": 8080

}

],

"logConfiguration": {

"logDriver": "awslogs",

"options": {

"awslogs-region": "us-east-2",

"awslogs-stream-prefix": "ecs",

"awslogs-group": "/ecs/supplier-api-task"

}

},

"essential": true,

"volumesFrom": []

}

],

"revision": 43

}

}