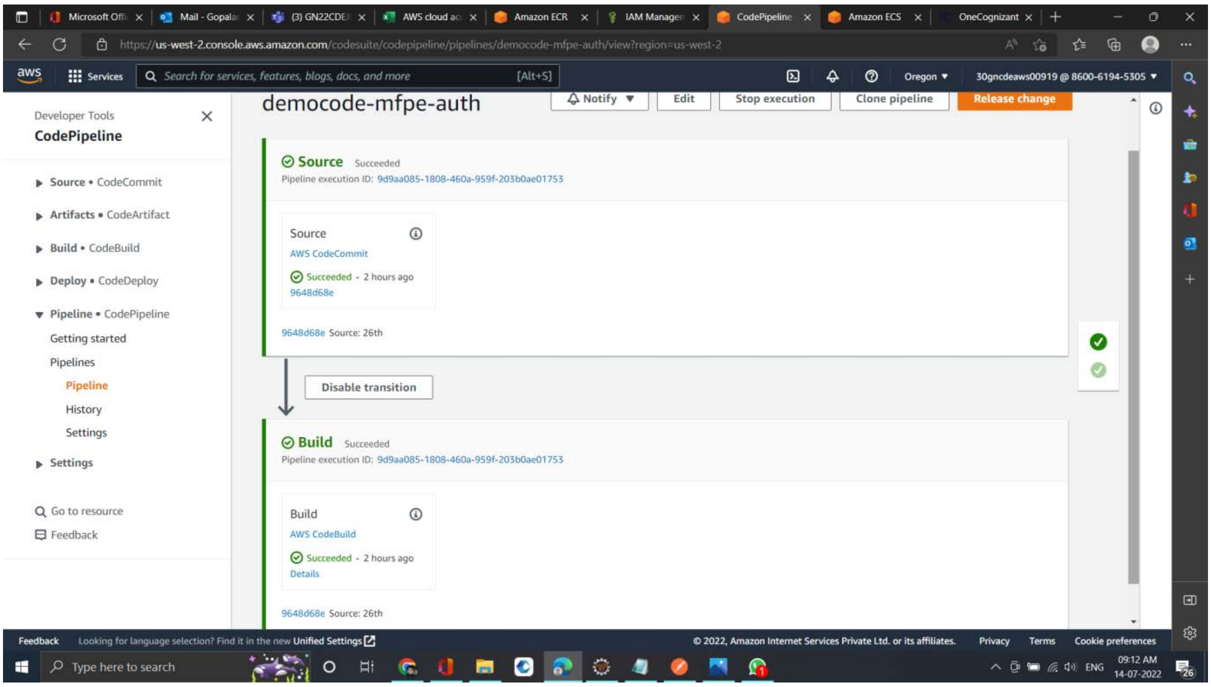
Deployment – MFPE Project

Authentication Service

CI/CD Pipeline for auth-service



https://us-west-2.console.aws.amazon.com/codesuite/codepipeline/pipelines/democode-mfpe-auth/view?region=us-west-2

democode-mfpe-auth

Source Succeeded
Pipeline execution ID: 9d9aa085-1808-460a-959f-203b0ae01753

Source
AWS CodeCommit
Succeeded - 2 hours ago
9648d68e

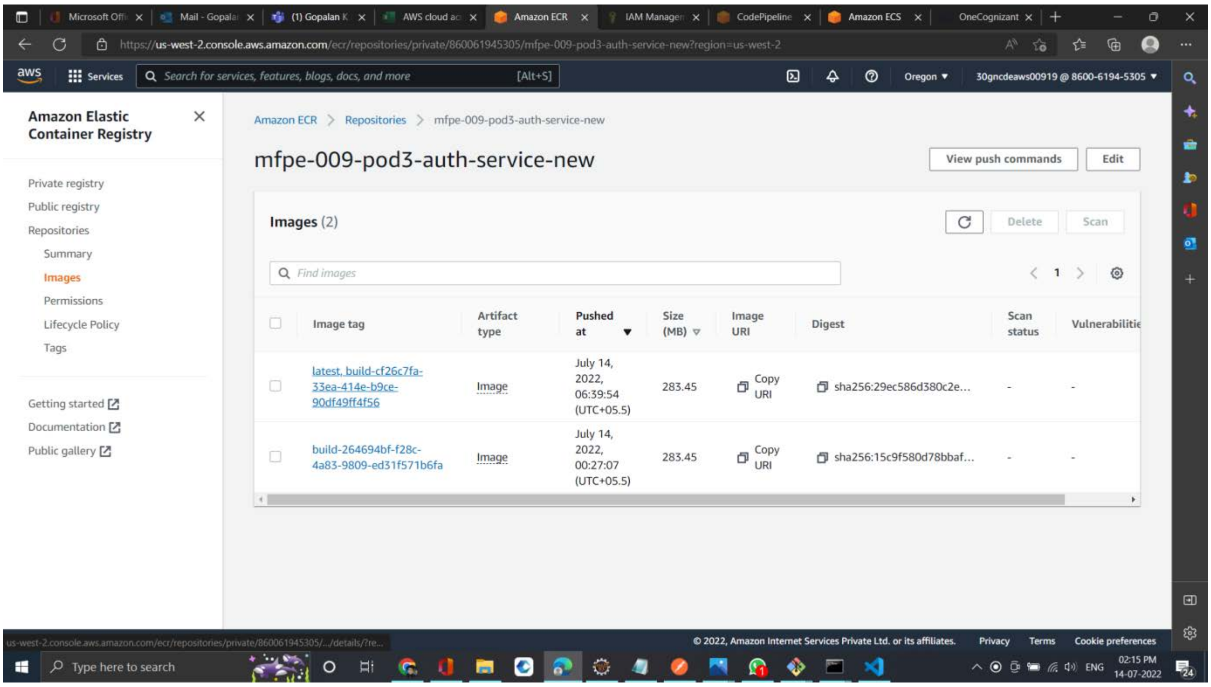
9648d68e Source: 26th

Build Succeeded
Pipeline execution ID: 9d9aa085-1808-460a-959f-203b0ae01753

Build
AWS CodeBuild
Succeeded - 2 hours ago
Details

9648d68e Source: 26th

The Docker image repository ECR



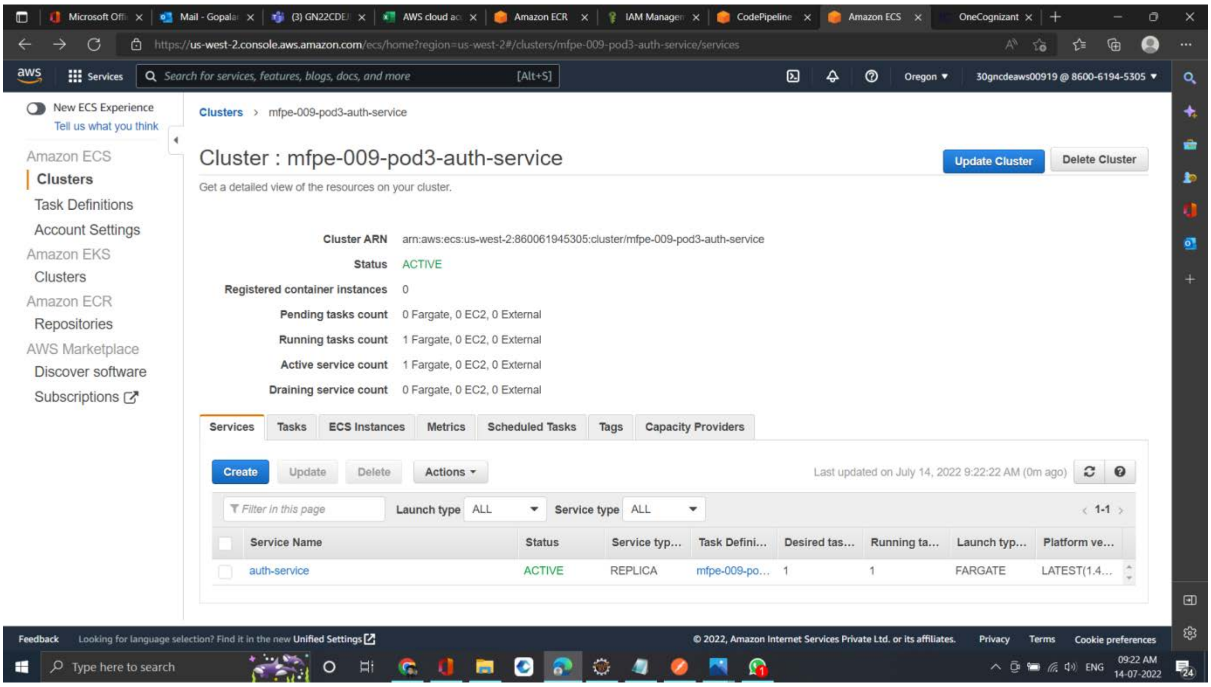
https://us-west-2.console.aws.amazon.com/ecr/repositories/private/860061945305/mfpe-009-pod3-auth-service-new?region=us-west-2

mfpe-009-pod3-auth-service-new

Images (2)

□	Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest	Scan status	Vulnerabilitie
□	latest, build-cf26c7fa-33ea-414e-b9ce-90df49ff4f56	Image	July 14, 2022, 06:39:54 (UTC+05.5)	283.45	Copy URI	sha256:29ec586d380c2e...	-	-
□	build-264694bf-f28c-4a83-9809-ed31f571b6fa	Image	July 14, 2022, 00:27:07 (UTC+05.5)	283.45	Copy URI	sha256:15c9f580d78bbaf...	-	-

ECS for Authentication



https://us-west-2.console.aws.amazon.com/ecs/home?region=us-west-2#/clusters/mfpe-009-pod3-auth-service/services

Clusters > mfpe-009-pod3-auth-service

Cluster : mfpe-009-pod3-auth-service

Get a detailed view of the resources on your cluster.

Cluster ARN	arn:aws:ecs:us-west-2:860061945305:cluster/mfpe-009-pod3-auth-service
Status	ACTIVE
Registered container instances	0
Pending tasks count	0 Fargate, 0 EC2, 0 External
Running tasks count	1 Fargate, 0 EC2, 0 External
Active service count	1 Fargate, 0 EC2, 0 External
Draining service count	0 Fargate, 0 EC2, 0 External

Last updated on July 14, 2022 9:22:22 AM (0m ago)

Launch type ALL Service type ALL

Service Name	Status	Service typ...	Task Defini...	Desired tas...	Running ta...	Launch typ...	Platform ve...
auth-service	ACTIVE	REPLICA	mfpe-009-po...	1	1	FARGATE	LATEST(1.4...

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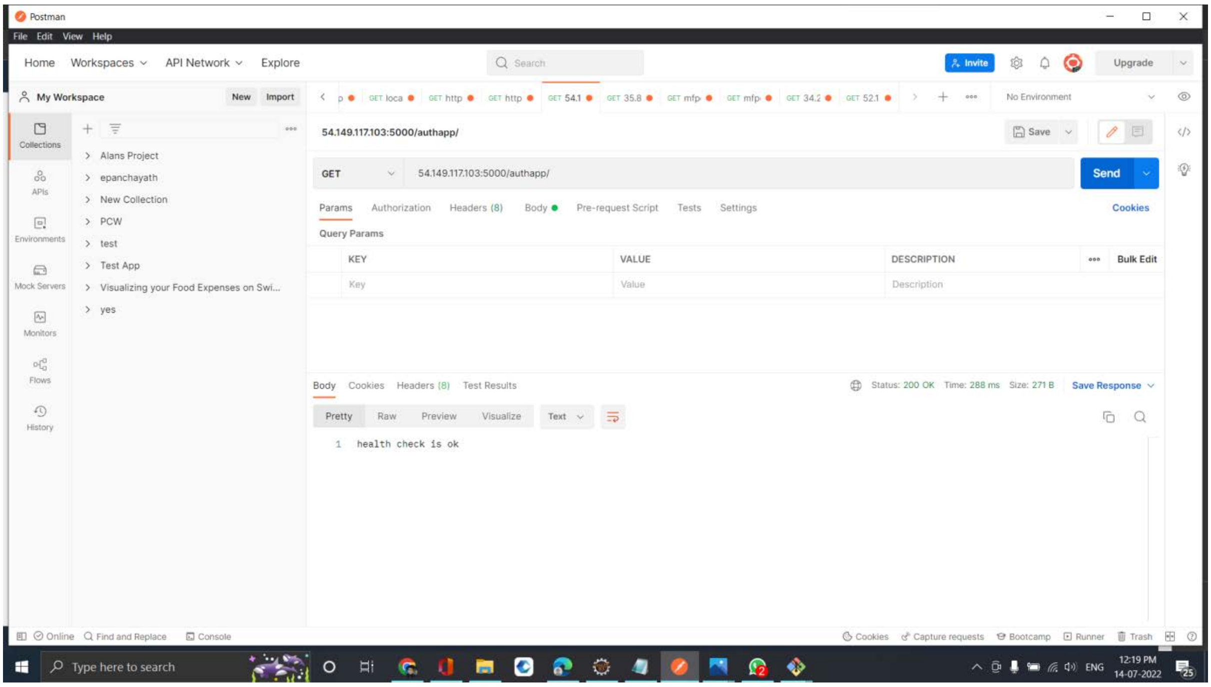
09:22 AM 14-07-2022

Deployed successfully



GET 54.149.117.103:5000/authapp/

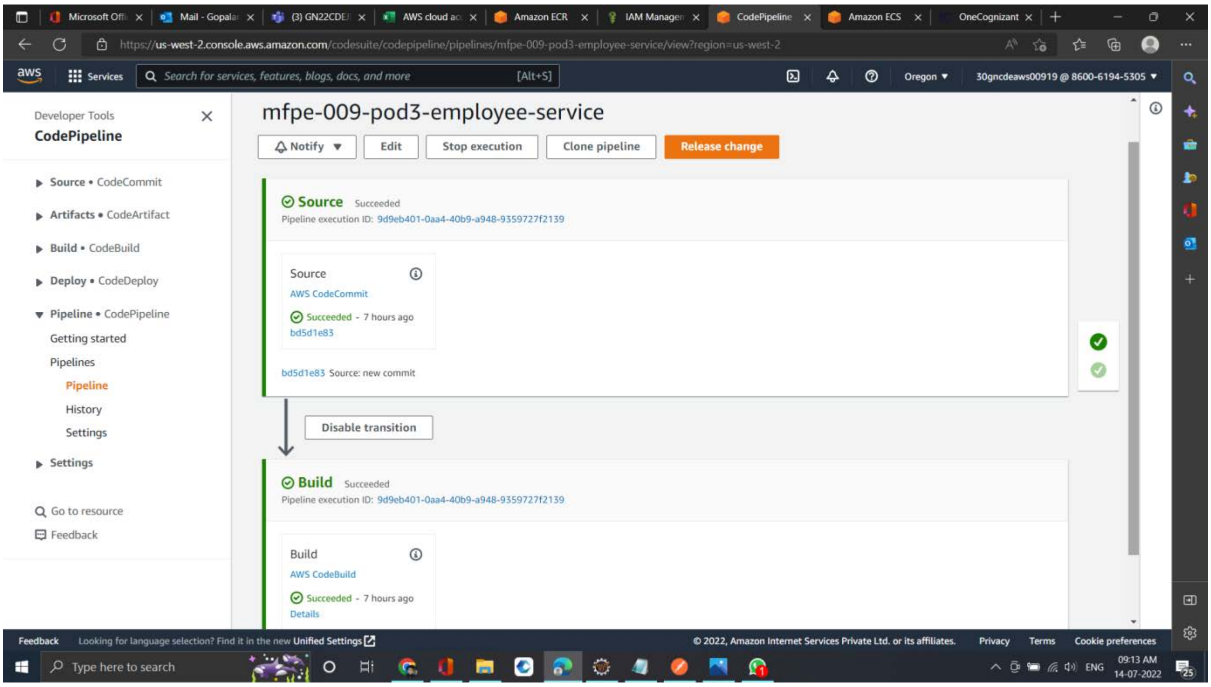
Status: 200 OK Time: 288 ms Size: 271 B

```
health check is ok
```

12:19 PM 14-07-2022

Employee Service

CI/CD Pipeline for employee service



https://us-west-2.console.aws.amazon.com/codesuite/codepipeline/pipelines/mfpe-009-pod3-employee-service/view?region=us-west-2

mfpe-009-pod3-employee-service

Source Succeeded
Pipeline execution ID: 9d9eb401-0aa4-40b9-a948-9359727f2139

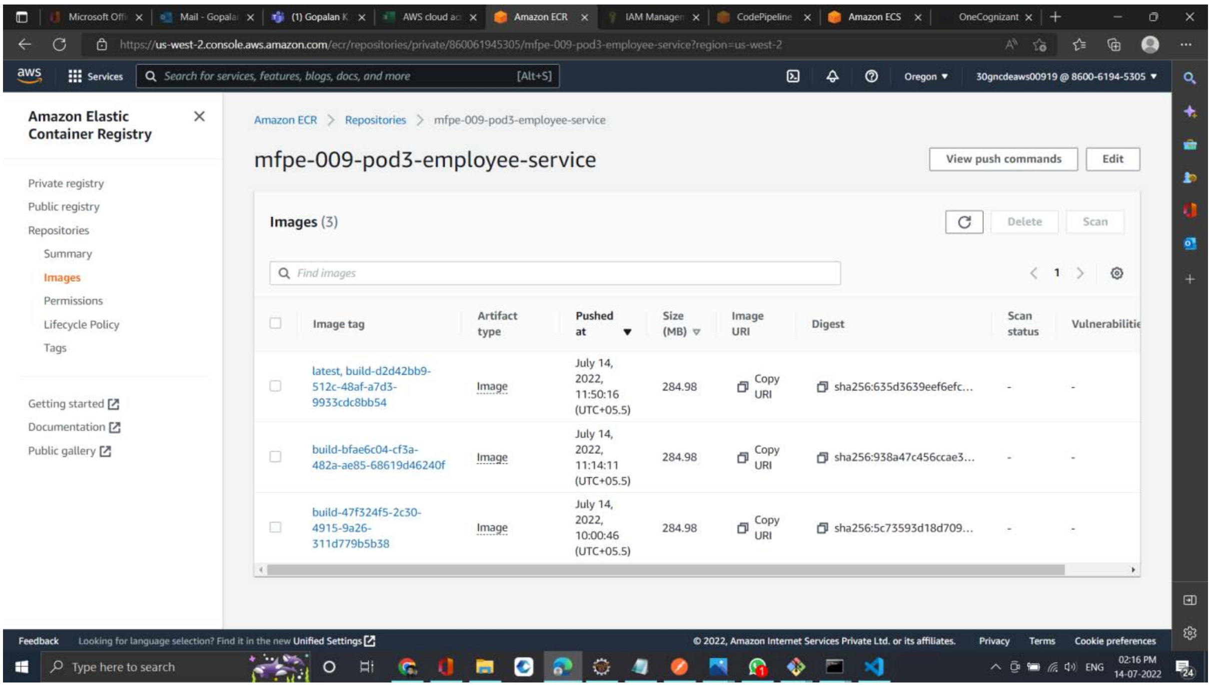
Source
AWS CodeCommit
Succeeded - 7 hours ago
bd5d1e83

bd5d1e83 Source: new commit

Build Succeeded
Pipeline execution ID: 9d9eb401-0aa4-40b9-a948-9359727f2139

Build
AWS CodeBuild
Succeeded - 7 hours ago
Details

The docker image repository ECR



https://us-west-2.console.aws.amazon.com/ecr/repositories/private/860061945305/mfpe-009-pod3-employee-service?region=us-west-2

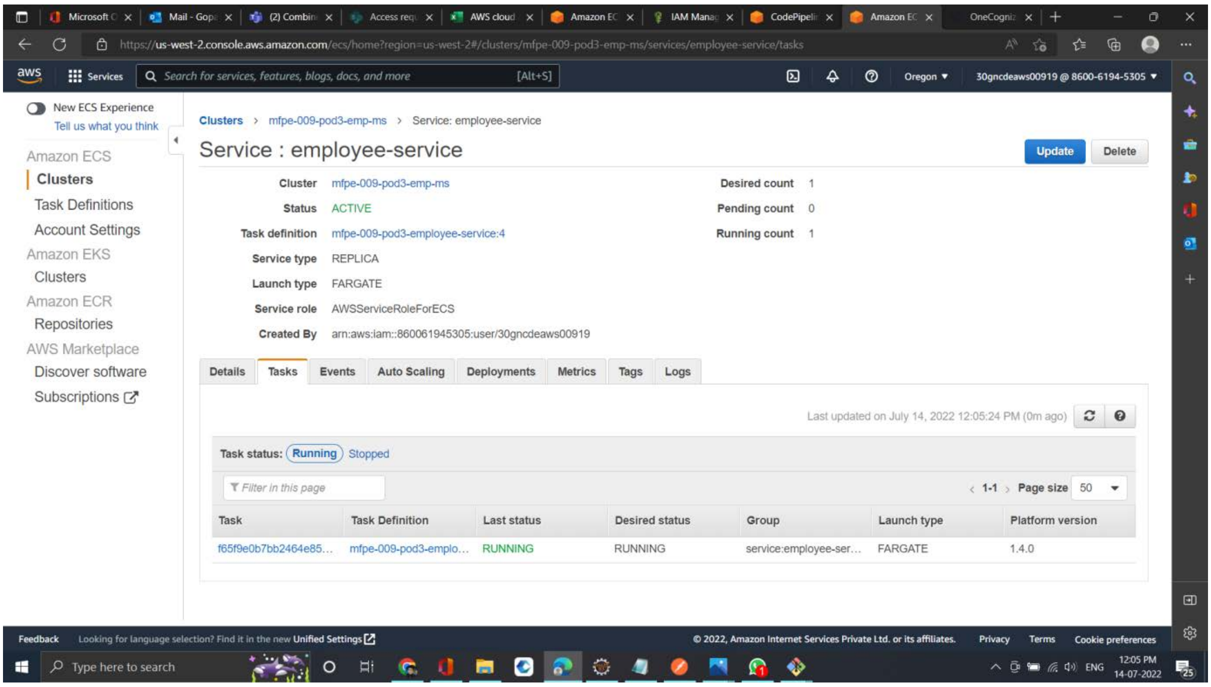
Amazon ECR > Repositories > mfpe-009-pod3-employee-service

mfpe-009-pod3-employee-service

Images (3)

□	Image tag	Artifact type	Pushed at ▼	Size (MB)	Image URI	Digest	Scan status	Vulnerabilitie
□	latest, build-d2d42bb9-512c-48af-a7d3-9933cdc8bb54	Image	July 14, 2022, 11:50:16 (UTC+05.5)	284.98	Copy URI	sha256:635d3639eef6efc...	-	-
□	build-bfae6c04-cf3a-482a-ae85-68619d46240f	Image	July 14, 2022, 11:14:11 (UTC+05.5)	284.98	Copy URI	sha256:938a47c456ccae3...	-	-
□	build-47f324f5-2c30-4915-9a26-311d779b5b38	Image	July 14, 2022, 10:00:46 (UTC+05.5)	284.98	Copy URI	sha256:5c73593d18d709...	-	-

ECS for Employee Service



Clusters > mfpe-009-pod3-emp-ms > Service: employee-service

Service : employee-service

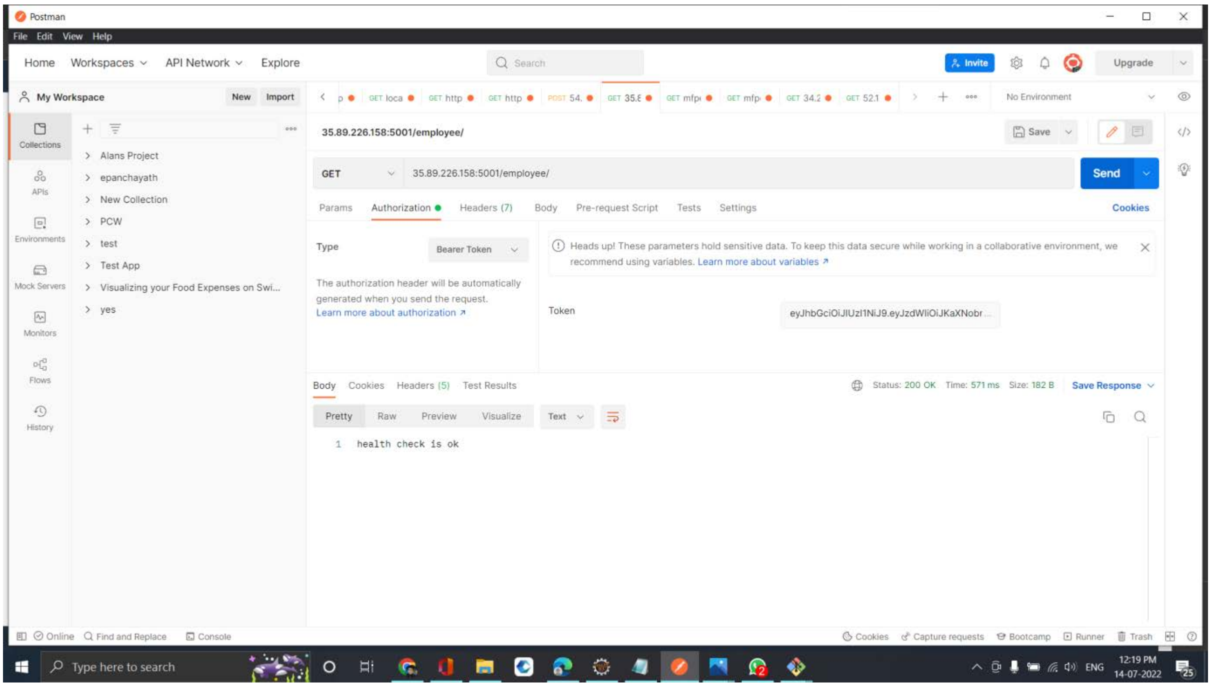
Cluster	mfpe-009-pod3-emp-ms	Desired count	1
Status	ACTIVE	Pending count	0
Task definition	mfpe-009-pod3-employee-service:4	Running count	1
Service type	REPLICA		
Launch type	FARGATE		
Service role	AWSServiceRoleForECS		
Created By	arn:aws:iam::860061945305:user/30gncdeaws00919		

Last updated on July 14, 2022 12:05:24 PM (0m ago)

Task status: Running Stopped

Task	Task Definition	Last status	Desired status	Group	Launch type	Platform version
f65f9e0b7bb2464e85…	mfpe-009-pod3-emplo…	RUNNING	RUNNING	service:employee-ser…	FARGATE	1.4.0

Deployed successfully



GET 35.89.226.158:5001/employee/

Authorization: Bearer Token

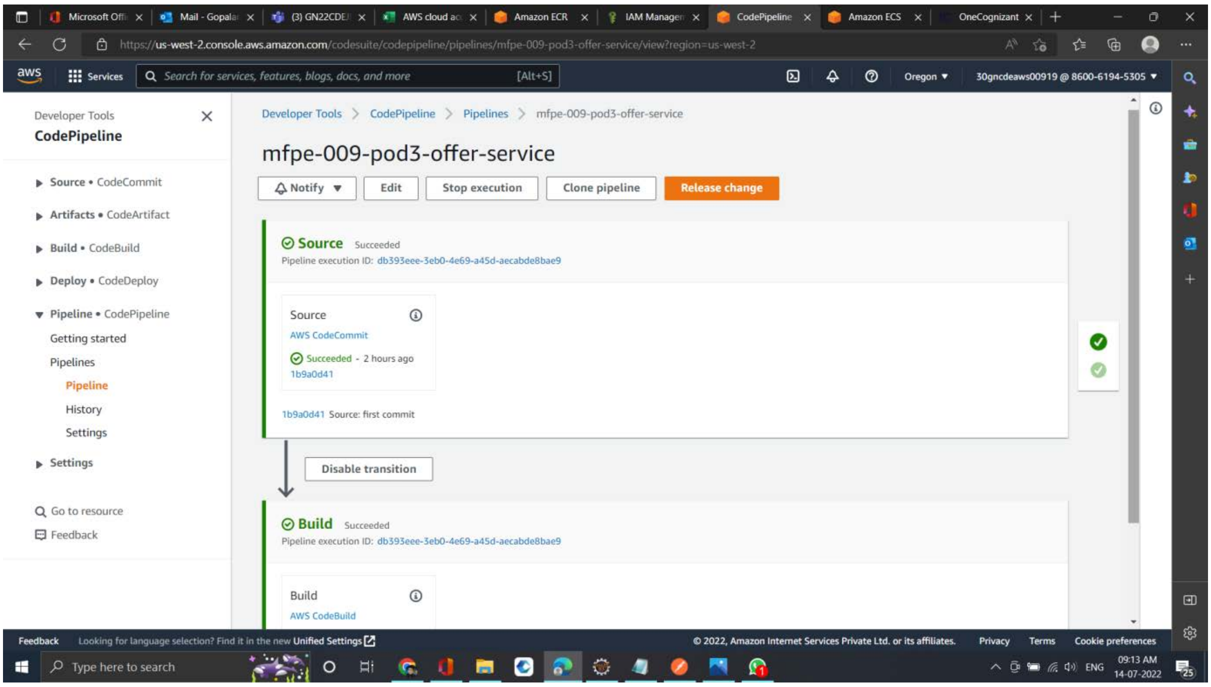
Token: eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJKaXNobr…

Status: 200 OK Time: 571 ms Size: 182 B

```
health check is ok
```

Offer Service

CI/CD Pipeline for offer service



Developer Tools > CodePipeline > Pipelines > mfpe-009-pod3-offer-service

mfpe-009-pod3-offer-service

Source Succeeded
Pipeline execution ID: db393eee-3eb0-4e69-a45d-aecabde8bae9

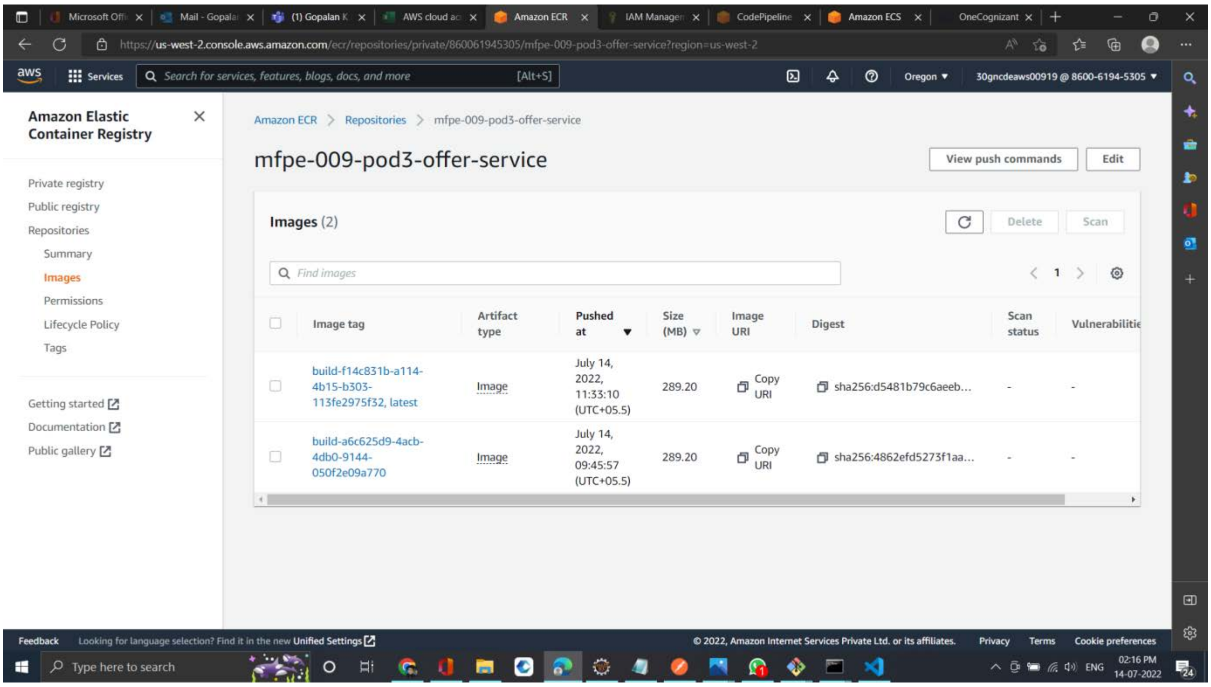
Source
AWS CodeCommit
Succeeded - 2 hours ago
1b9a0d41

1b9a0d41 Source: first commit

Build Succeeded
Pipeline execution ID: db393eee-3eb0-4e69-a45d-aecabde8bae9

Build
AWS CodeBuild

The docker image repository ECR



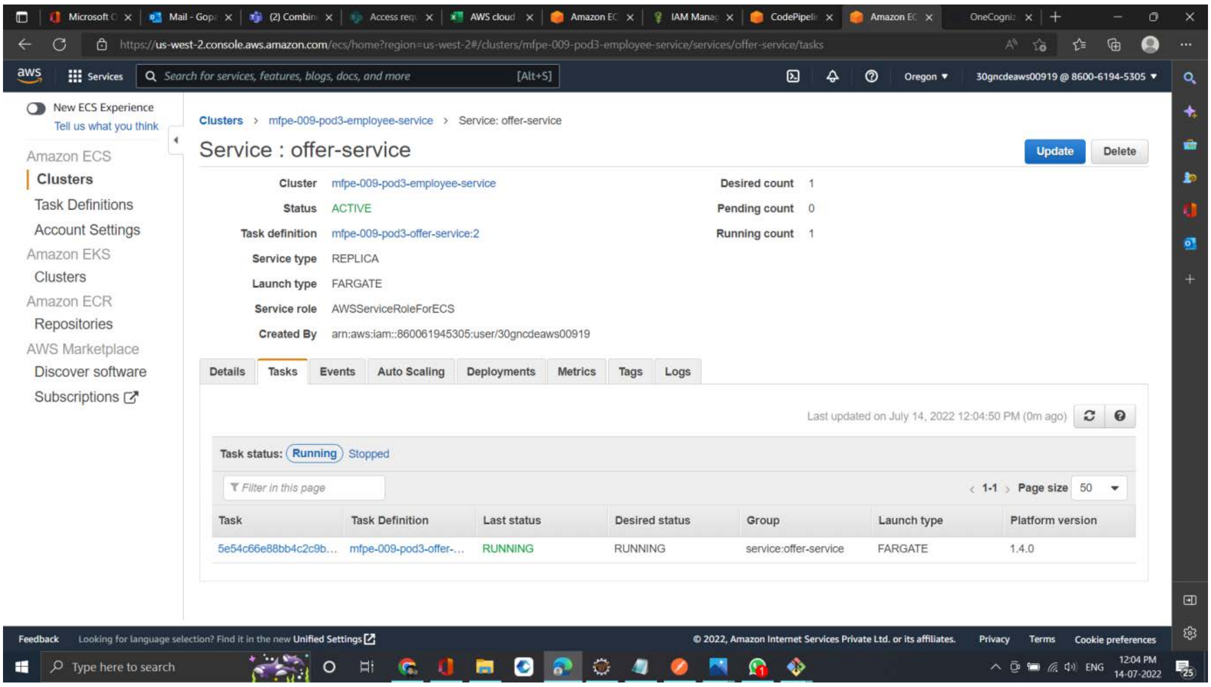
Amazon ECR > Repositories > mfpe-009-pod3-offer-service

mfpe-009-pod3-offer-service

Images (2)

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest	Scan status	Vulnerabilities
build-f14c831b-a114-4b15-b303-113fe2975f32, latest	Image	July 14, 2022, 11:33:10 (UTC+05.5)	289.20	Copy URI	sha256:d5481b79c6aeeb...	-	-
build-a6c625d9-4acb-4db0-9144-050f2e09a770	Image	July 14, 2022, 09:45:57 (UTC+05.5)	289.20	Copy URI	sha256:4862efd5273f1aa...	-	-

ECS for Offer Service



https://us-west-2.console.aws.amazon.com/ecs/home?region=us-west-2#/clusters/mfpe-009-pod3-employee-service/services/offer-service/tasks

Clusters > mfpe-009-pod3-employee-service > Service: offer-service

Service : offer-service

Cluster	mfpe-009-pod3-employee-service	Desired count	1
Status	ACTIVE	Pending count	0
Task definition	mfpe-009-pod3-offer-service:2	Running count	1
Service type	REPLICA		
Launch type	FARGATE		
Service role	AWSServiceRoleForECS		
Created By	arn:aws:iam::860061945305:user/30gncdeaws00919		

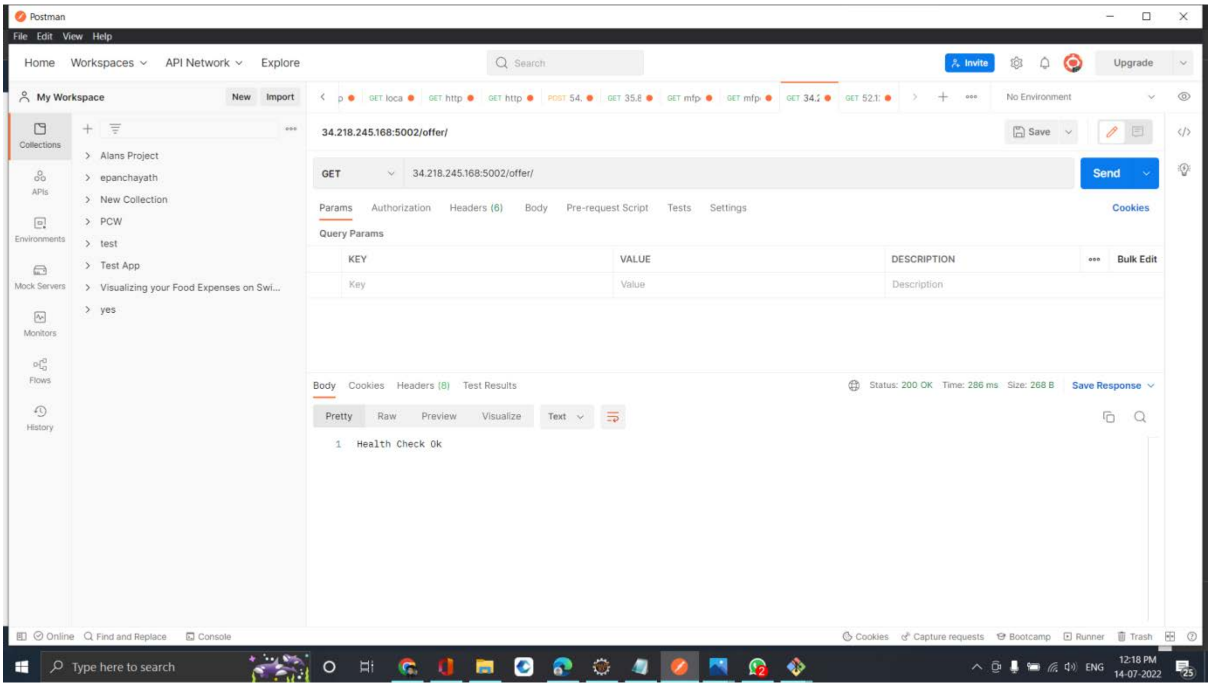
Details | Tasks | Events | Auto Scaling | Deployments | Metrics | Tags | Logs

Last updated on July 14, 2022 12:04:50 PM (0m ago)

Task status: Running Stopped

Task	Task Definition	Last status	Desired status	Group	Launch type	Platform version
5e54c66e88bb4c2c9b…	mfpe-009-pod3-offer-…	RUNNING	RUNNING	service:offer-service	FARGATE	1.4.0

Deployed Successfully



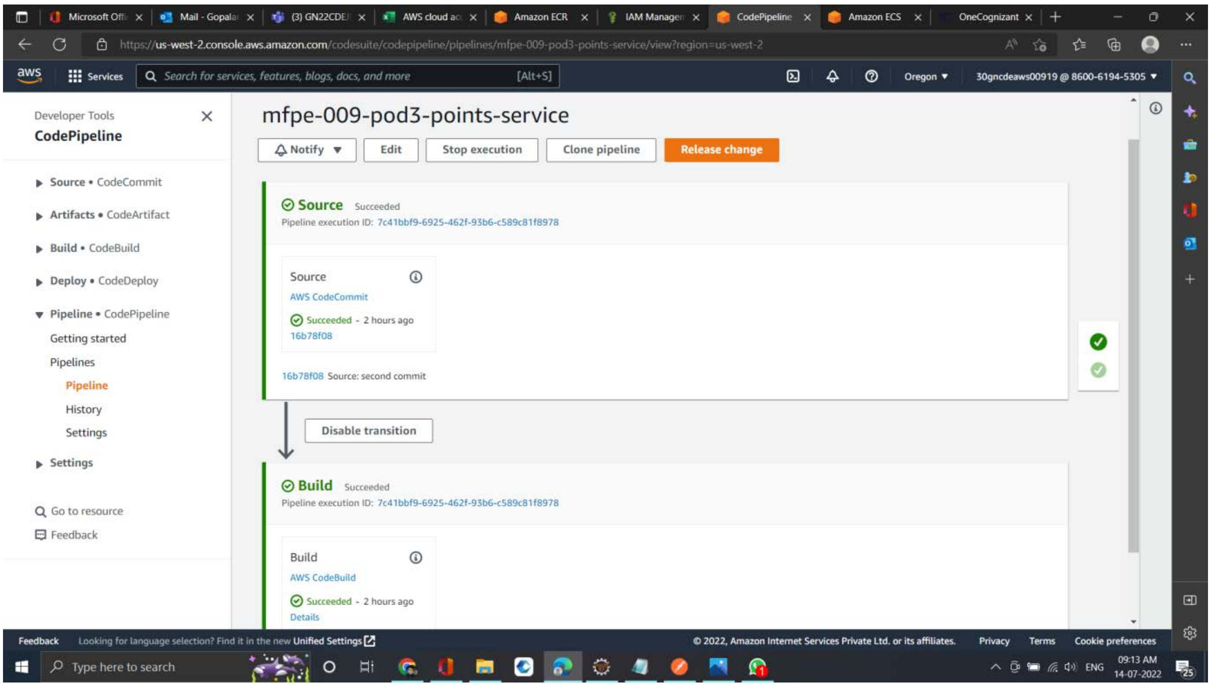
GET 34.218.245.168:5002/offer/

Status: 200 OK Time: 286 ms Size: 268 B

```
1  Health Check Ok
```

Points Service

CI/CD Pipeline for points service



mfpe-009-pod3-points-service

Source Succeeded
Pipeline execution ID: 7c41bbf9-6925-462f-93b6-c589c81f8978

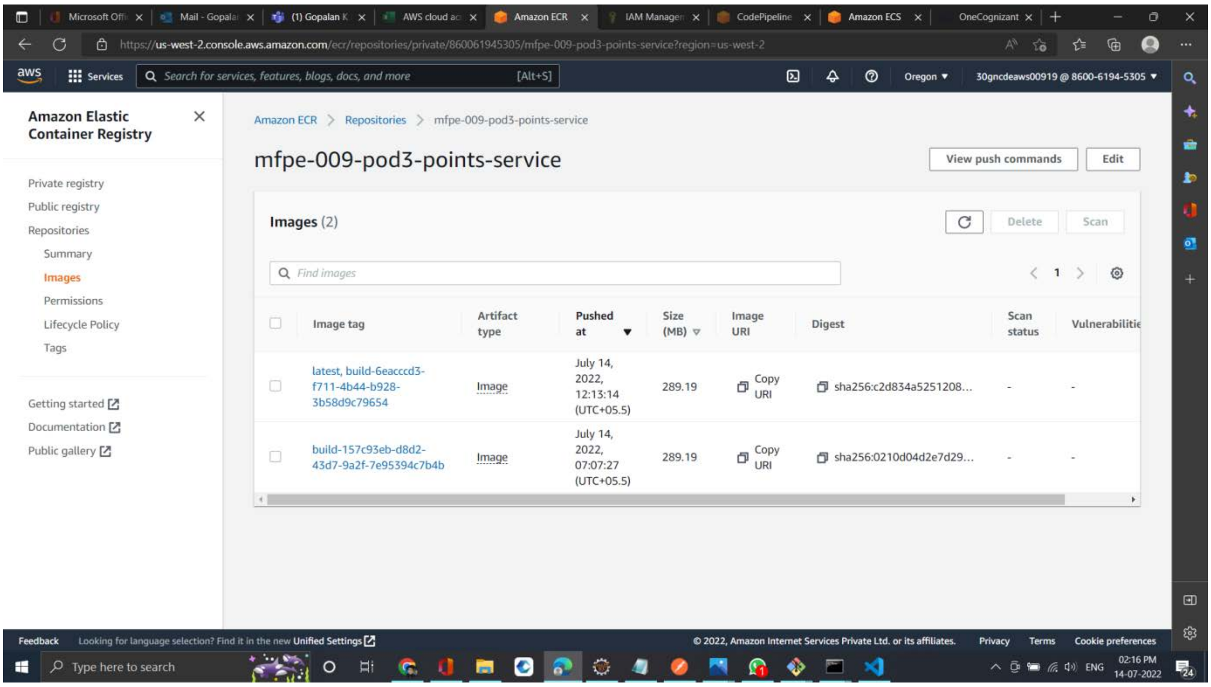
Source
AWS CodeCommit
Succeeded - 2 hours ago
16b78f08

16b78f08 Source: second commit

Build Succeeded
Pipeline execution ID: 7c41bbf9-6925-462f-93b6-c589c81f8978

Build
AWS CodeBuild
Succeeded - 2 hours ago
Details

The Docker image repository ECR

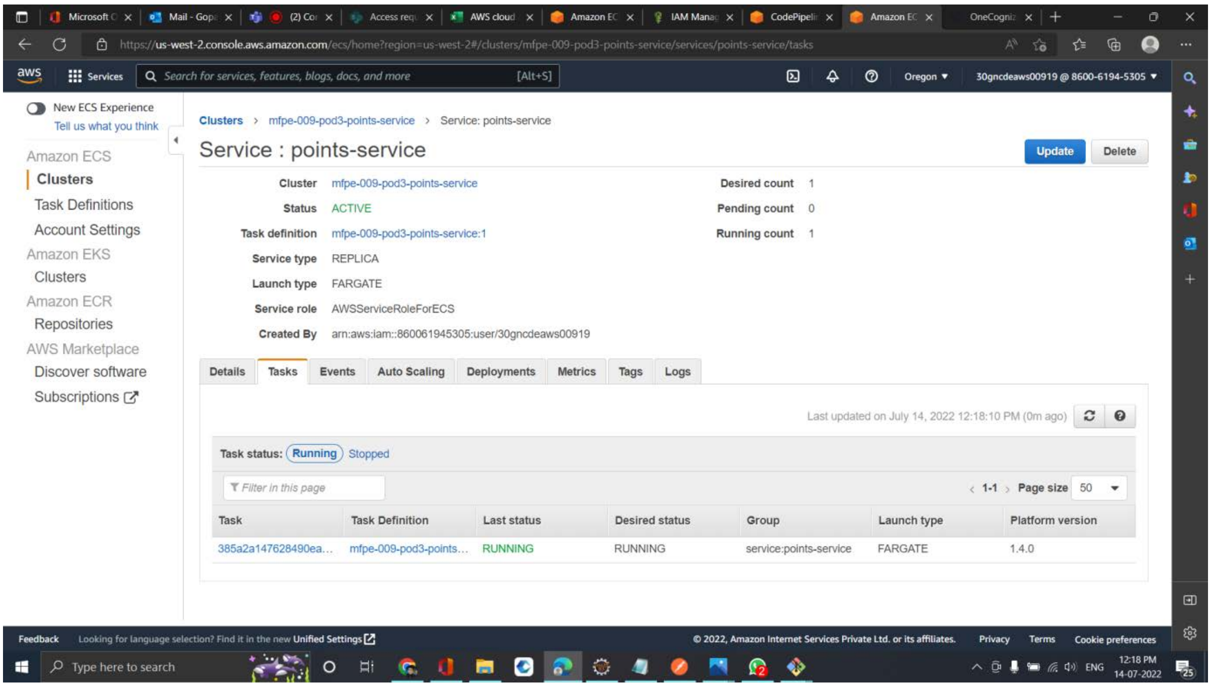


mfpe-009-pod3-points-service

Images (2)

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest	Scan status	Vulnerabilities
latest, build-6eacccd3-f711-4b44-b928-3b58d9c79654	Image	July 14, 2022, 12:13:14 (UTC+05.5)	289.19	Copy URI	sha256:c2d834a5251208...	-	-
build-157c93eb-d8d2-43d7-9a2f-7e95394c7b4b	Image	July 14, 2022, 07:07:27 (UTC+05.5)	289.19	Copy URI	sha256:0210d04d2e7d29...	-	-

ECS for Offer Service



Service : points-service

Cluster mfpe-009-pod3-points-service

Status ACTIVE

Task definition mfpe-009-pod3-points-service:1

Service type REPLICA

Launch type FARGATE

Service role AWSServiceRoleForECS

Created By arn:aws:iam::860061945305:user/30gncdeaws00919

Desired count 1

Pending count 0

Running count 1

Last updated on July 14, 2022 12:18:10 PM (0m ago)

Task status: Running Stopped

Task	Task Definition	Last status	Desired status	Group	Launch type	Platform version
385a2a147628490ea…	mfpe-009-pod3-points…	RUNNING	RUNNING	service:points-service	FARGATE	1.4.0

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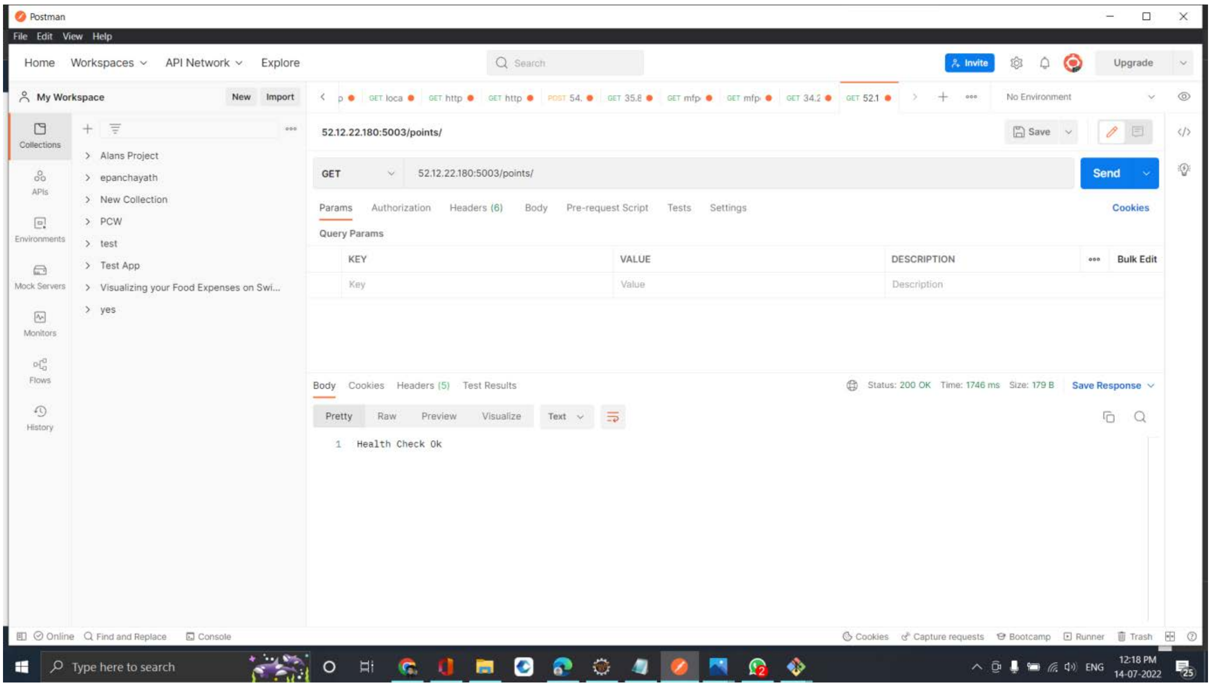
12:18 PM 14-07-2022

Deployed Successfully



52.12.22.180:5003/points/

GET 52.12.22.180:5003/points/

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

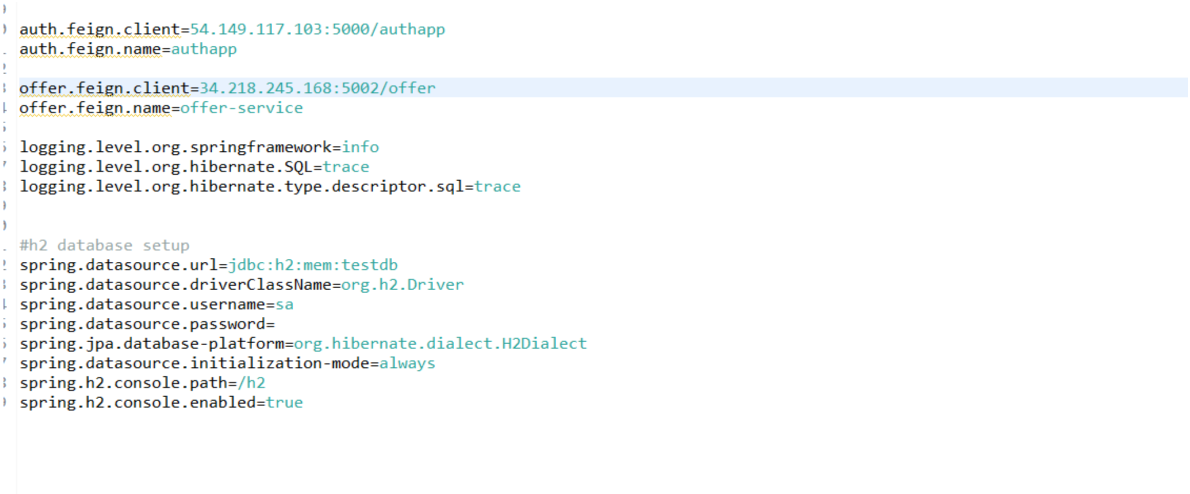
Body Cookies Headers (5) Test Results

Status: 200 OK Time: 1746 ms Size: 179 B

```
Health Check Ok
```

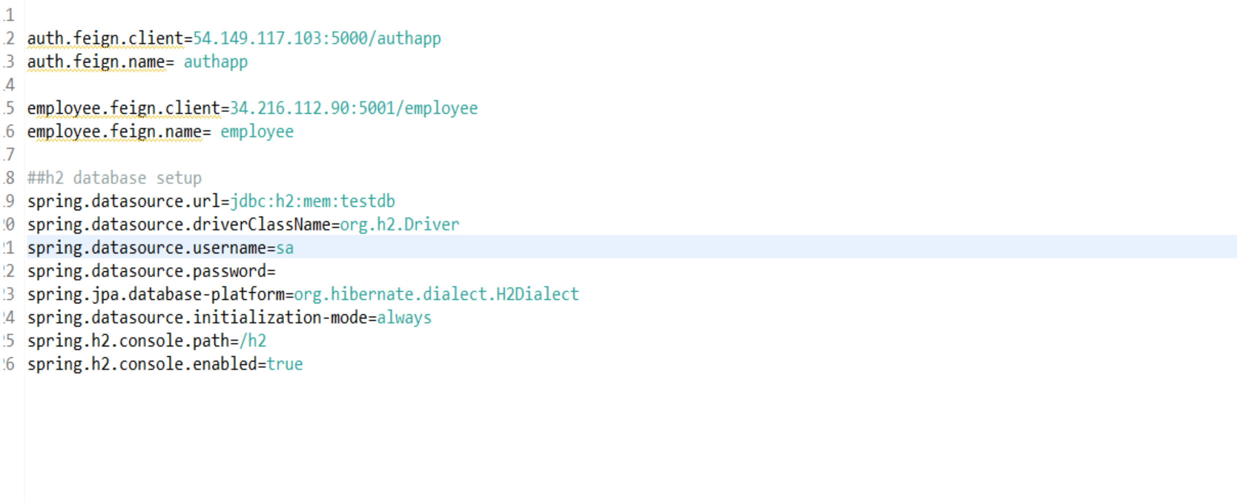
12:18 PM 14-07-2022

Connect Employee Service with Offer and Auth Service



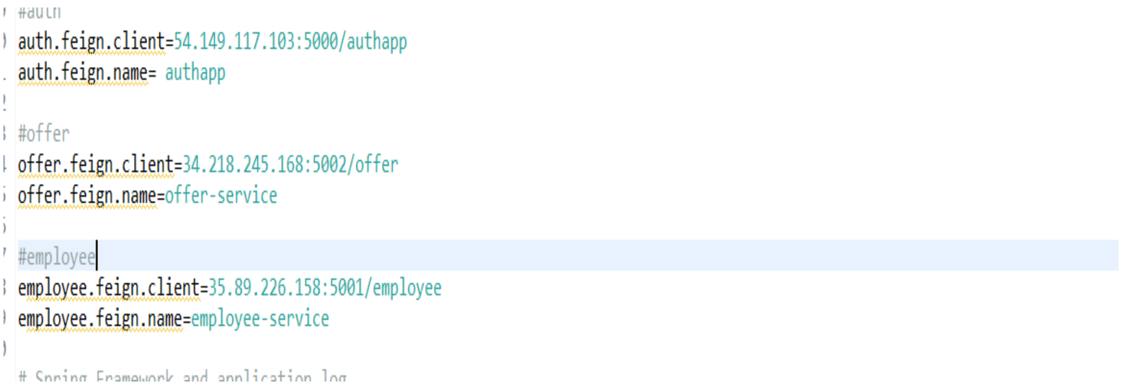
```
auth.feign.client=54.149.117.103:5000/authapp
auth.feign.name=authapp

offer.feign.client=34.218.245.168:5002/offer
offer.feign.name=offer-service

logging.level.org.springframework=info
logging.level.org.hibernate.SQL=trace
logging.level.org.hibernate.type.descriptor.sql=trace


#h2 database setup
spring.datasource.url=jdbc:h2:mem:testdb
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=sa
spring.datasource.password=
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
spring.datasource.initialization-mode=always
spring.h2.console.path=/h2
spring.h2.console.enabled=true
```

Connect Offer service Employee and Auth Service



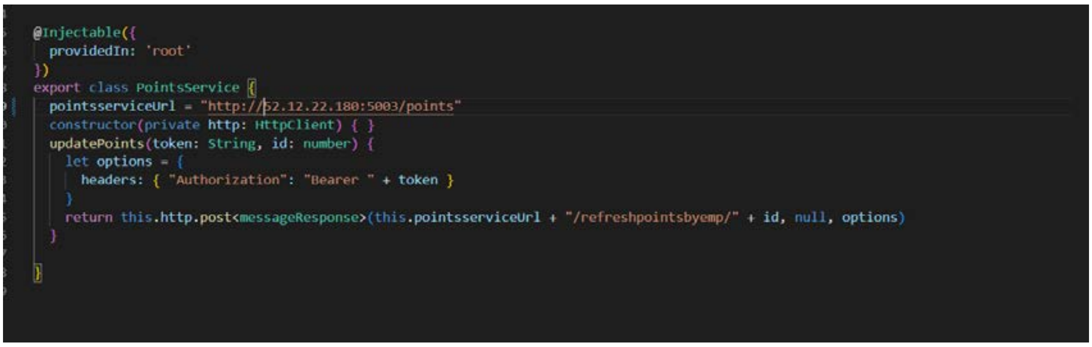
```

auth.feign.client=54.149.117.103:5000/authapp
auth.feign.name= authapp

employee.feign.client=34.216.112.90:5001/employee
employee.feign.name= employee

##h2 database setup
spring.datasource.url=jdbc:h2:mem:testdb
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=sa
spring.datasource.password=
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
spring.datasource.initialization-mode=always
spring.h2.console.path=/h2
spring.h2.console.enabled=true
```

Connect Points service with Auth, Employee and Offer Service

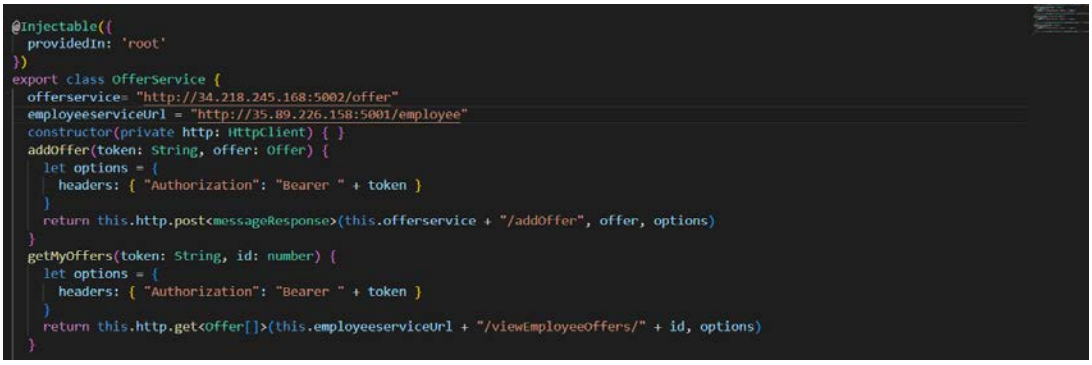


```
#auth
auth.feign.client=54.149.117.103:5000/authapp
auth.feign.name= authapp

#offer
offer.feign.client=34.218.245.168:5002/offer
offer.feign.name=offer-service

#employee
employee.feign.client=35.89.226.158:5001/employee
employee.feign.name=employee-service

# Spring Framework and application log
```

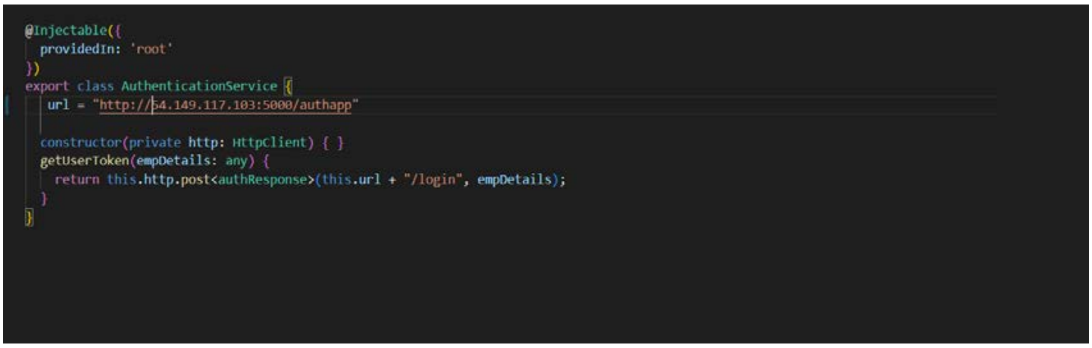
Connect Front End with ECS Clusters Endpoints



```
@Injectable({
  providedIn: 'root'
})
export class PointsService {
  pointsserviceUrl = "http://52.12.22.180:5003/points"
  constructor(private http: HttpClient) { }
  updatePoints(token: String, id: number) {
    let options = {
      headers: { "Authorization": "Bearer " + token }
    }
    return this.http.post<messageResponse>(this.pointsserviceUrl + "/refreshpointsbyemp/" + id, null, options)
  }

}
```



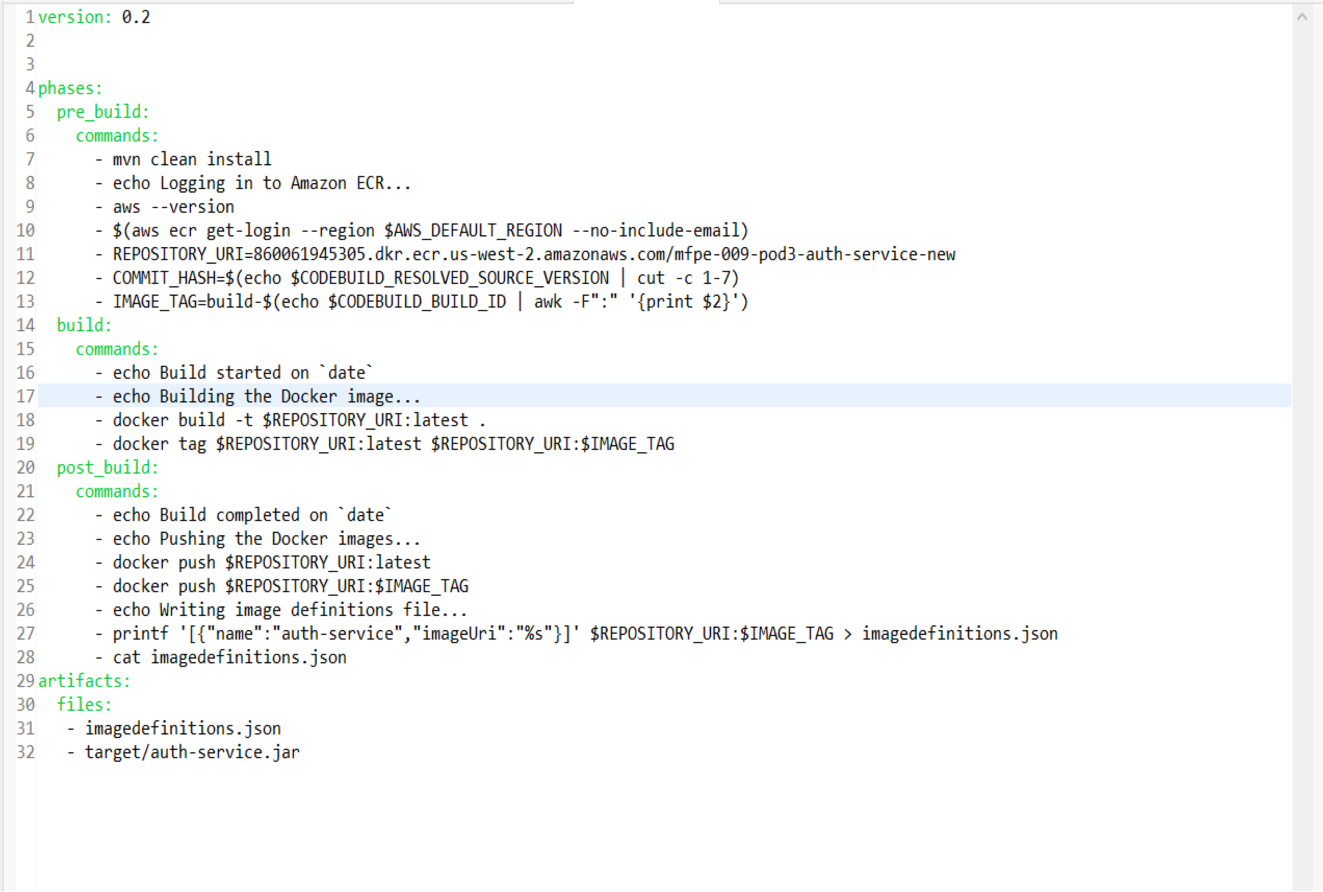
```
@Injectable({
  providedIn: 'root'
})
export class OfferService {
  offerservice= "http://34.218.245.168:5002/offer"
  employeeserviceUrl = "http://35.89.226.158:5001/employee"
  constructor(private http: HttpClient) { }
  addOffer(token: String, offer: Offer) {
    let options = {
      headers: { "Authorization": "Bearer " + token }
    }
    return this.http.post<messageResponse>(this.offerservice + "/addOffer", offer, options)
  }
  getMyOffers(token: String, id: number) {
    let options = {
      headers: { "Authorization": "Bearer " + token }
    }
    return this.http.get<Offer[]>(this.employeeserviceUrl + "/viewEmployeeOffers/" + id, options)
  }
```



```
@Injectable({
  providedIn: 'root'
})
export class AuthenticationService {
  url = "http://54.149.117.103:5000/authapp"

  constructor(private http: HttpClient) { }
  getUserToken(empDetails: any) {
    return this.http.post<authResponse>(this.url + "/login", empDetails);
  }
}
```

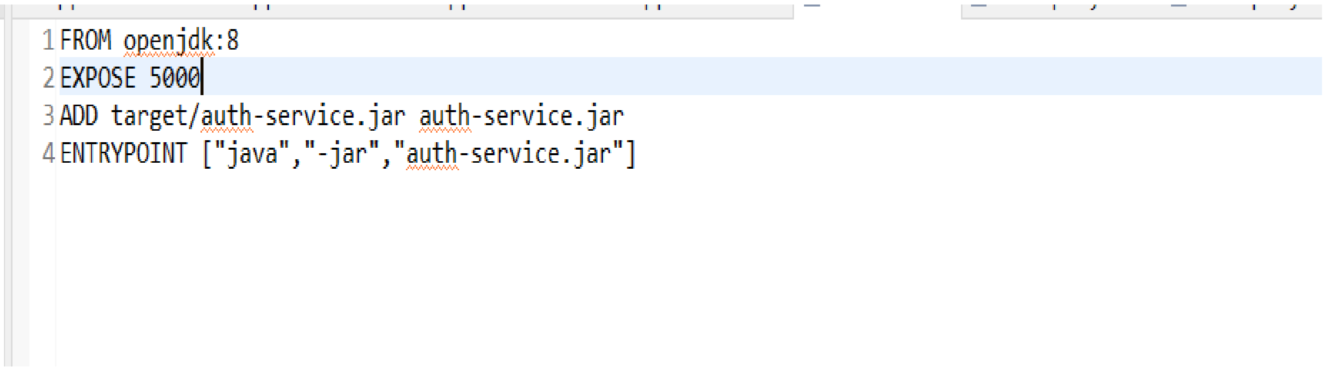
Sample Code

buildespec.yml



```yaml
version: 0.2


phases:
  pre_build:
    commands:
      - mvn clean install
      - echo Logging in to Amazon ECR...
      - aws --version
      - $(aws ecr get-login --region $AWS_DEFAULT_REGION --no-include-email)
      - REPOSITORY_URI=860061945305.dkr.ecr.us-west-2.amazonaws.com/mfpe-009-pod3-auth-service-new
      - COMMIT_HASH=$(echo $CODEBUILD_RESOLVED_SOURCE_VERSION | cut -c 1-7)
      - IMAGE_TAG=build-$(echo $CODEBUILD_BUILD_ID | awk -F":" '{print $2}')
  build:
    commands:
      - echo Build started on `date`
      - echo Building the Docker image...
      - docker build -t $REPOSITORY_URI:latest .
      - docker tag $REPOSITORY_URI:latest $REPOSITORY_URI:$IMAGE_TAG
  post_build:
    commands:
      - echo Build completed on `date`
      - echo Pushing the Docker images...
      - docker push $REPOSITORY_URI:latest
      - docker push $REPOSITORY_URI:$IMAGE_TAG
      - echo Writing image definitions file...
      - printf '[{"name":"auth-service","imageUri":"%s"}]' $REPOSITORY_URI:$IMAGE_TAG > imagedefinitions.json
      - cat imagedefinitions.json
artifacts:
  files:
   - imagedefinitions.json
   - target/auth-service.jar
```

Dockerfile



```dockerfile
FROM openjdk:8
EXPOSE 5000
ADD target/auth-service.jar auth-service.jar
ENTRYPOINT ["java","-jar","auth-service.jar"]
```