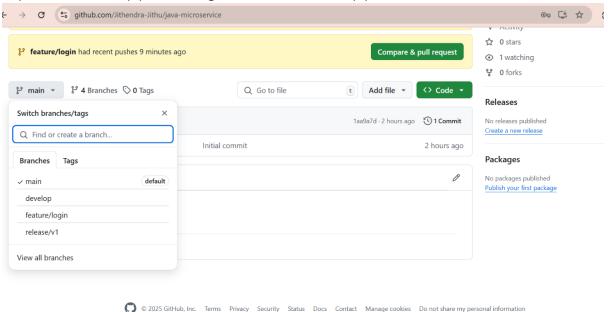
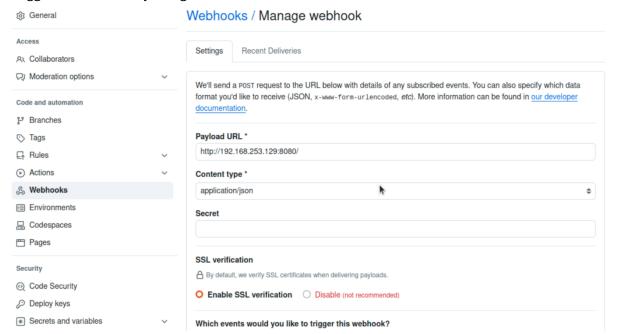
1. Implement a CI/CD pipeline using Jenkins multi-branch pipelines.



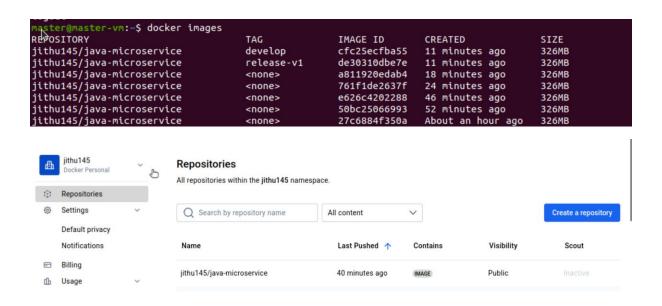
1. Triggers automatically using a GitHub webhook.



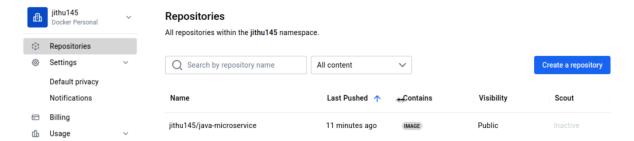
Builds and tests the Java application using maven.



4. Packages the application into a Docker container and pushes it to an image registry.



V. Docker Containerization and Image Push

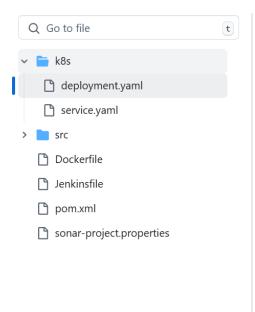


Docker file:



VI. Kubernetes Deployment

- i. deployment.yaml (Defines the app deployment and replicas).
- ii. service.yaml (Exposes the application internally).
- b. Add Kubernetes apply command to Jenkinsfile to enable deployment.



```
Code
               19 lines (19 loc) · 360 Bytes
          apiVersion: apps/v1
    1
          kind: Deployment
          metadata:
            name: java-microservice
            replicas: 1
            selector:
    8
              matchLabels:
                app: java-microservice
   10
            template:
              metadata:
   11
                labels:
   12
   13
                  app: java-microservice
   14
              spec:
   15
                containers:
                - name: java-microservice
   17
                  image: IMAGE_PLACEHOLDER
   18
                  ports:
                  - containerPort: 8080
   19
```

java-microservice / k8s / service.yaml 📮



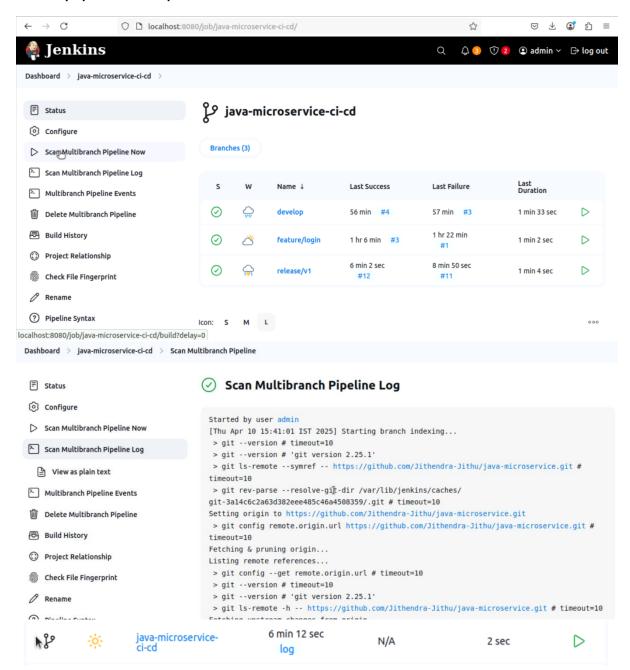
Jithendra-Jithu Initial commit for multi-branch Java microservice

```
12 lines (12 loc) · 194 Bytes
Code
         Blame
           apiVersion: v1
    1
    2
           kind: Service
           metadata:
    3
             name: java-microservice
    4
           spec:
             selector:
    6
               app: java-microservice
    7
             ports:
    8
               - protocol: TCP
    9
                 port: 80
   10
                 targetPort: 8080
   11
             type: NodePort
   12
```

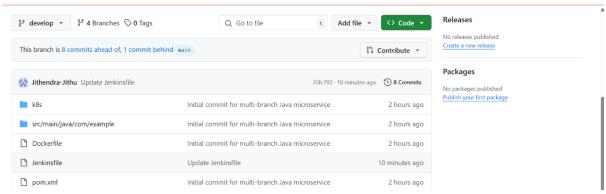
After executing the Jenkins multibranch pipeline:

Output:

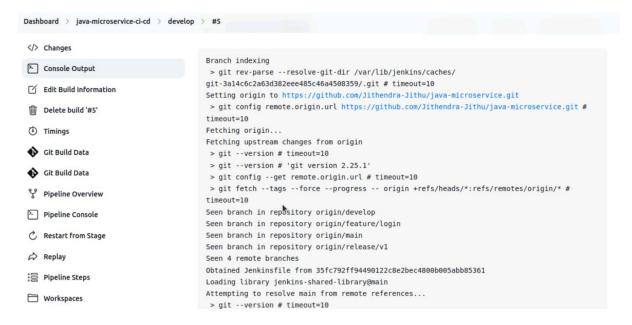
Total pipeline ouput:



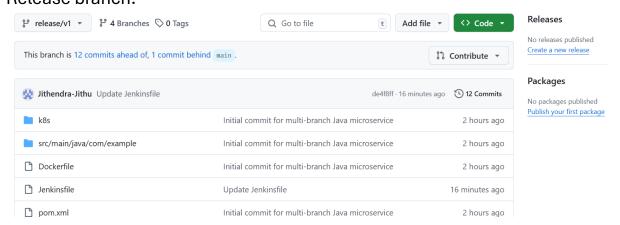
Develop branch:



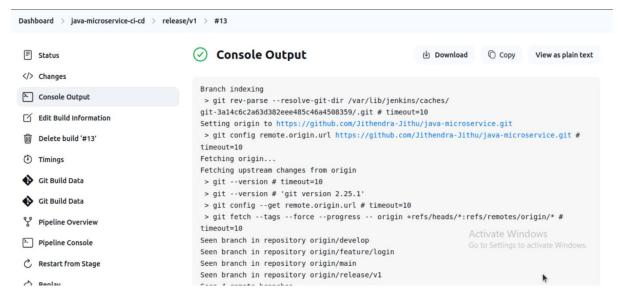
Output:



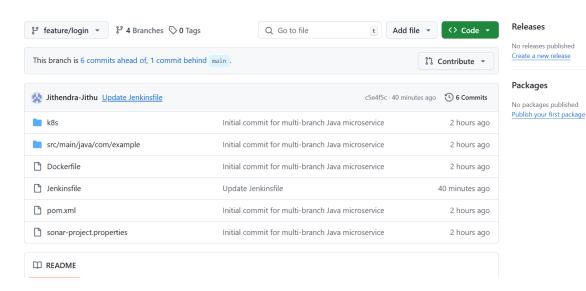
Release branch:



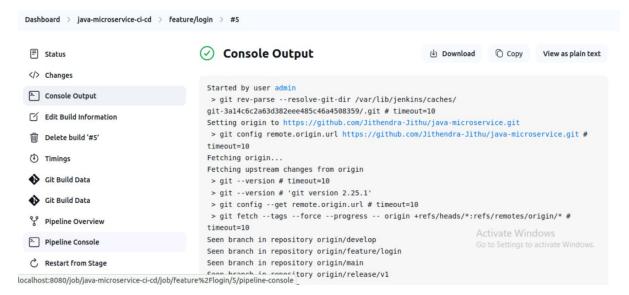
Output:



Feature/login:



Output:



.