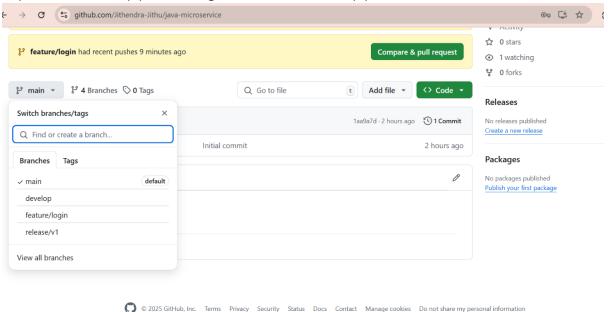
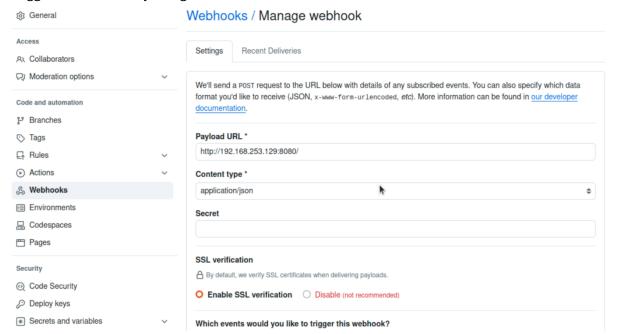
1. Implement a CI/CD pipeline using Jenkins multi-branch pipelines.



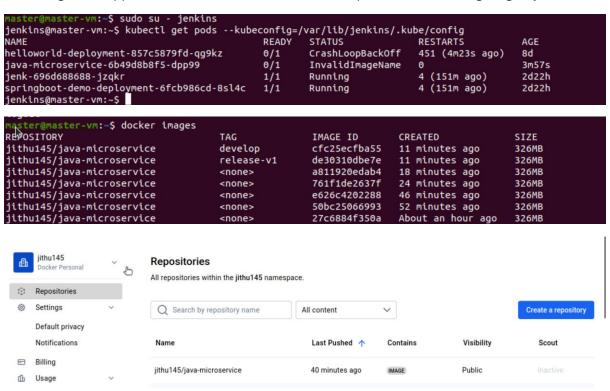
1. Triggers automatically using a GitHub webhook.



Builds and tests the Java application using maven.



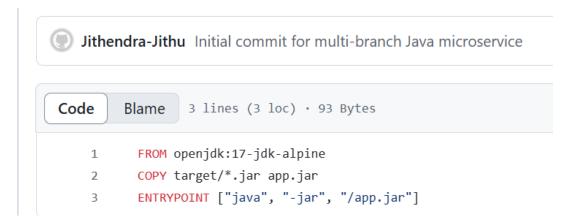
4. Packages the application into a Docker container and pushes it to an image registry.



5. Deploys the application to a Kubernetes cluster using YAML manifests.

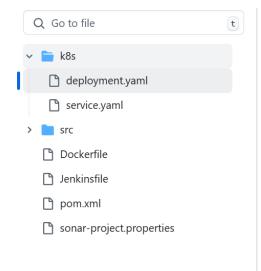
#### V. Docker Containerization and Image Push





#### 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
     Blame 19 lines (19 loc) · 360 Bytes
       apiVersion: apps/v1
       kind: Deployment
       metadata:
        name: java-microservice
       spec:
         replicas: 1
         selector:
           matchLabels:
             app: java-microservice
10
        template:
11
           metadata:
12
            labels:
13
              app: java-microservice
14
          spec:
15
           containers:
            - name: java-microservice
16
             image: IMAGE_PLACEHOLDER
17
             ports:
              - containerPort: 8080
```

# java-microservice / k8s / service.yaml 📮

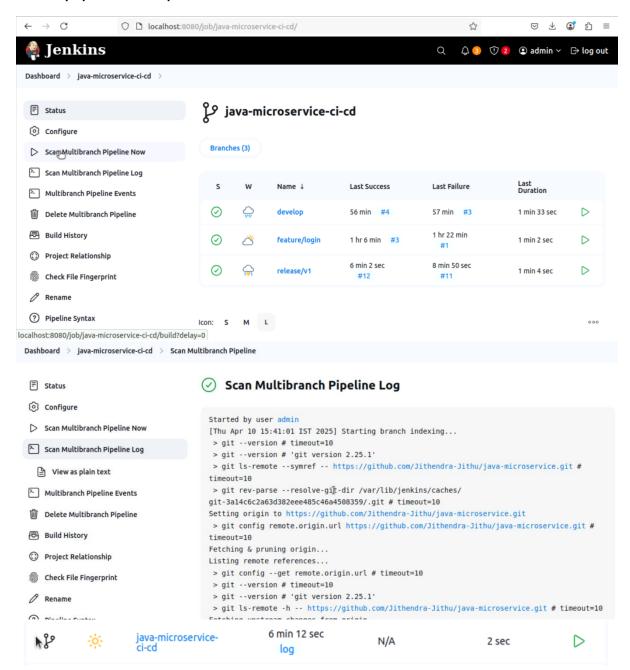
Jithendra-Jithu Initial commit for multi-branch Java microservice

```
Code
                12 lines (12 loc) · 194 Bytes
      Blame
        apiVersion: v1
 1
        kind: Service
  2
        metadata:
  3
          name: java-microservice
 4
 5
        spec:
          selector:
             app: java-microservice
  7
          ports:
 8
             - protocol: TCP
 9
               port: 80
10
               targetPort: 8080
 11
          type: NodePort
12
```

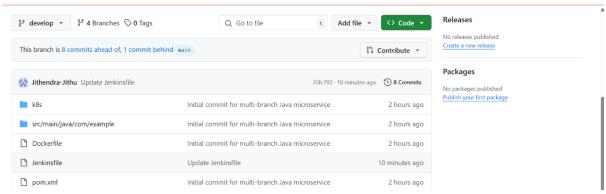
After executing the Jenkins multibranch pipeline:

### Output:

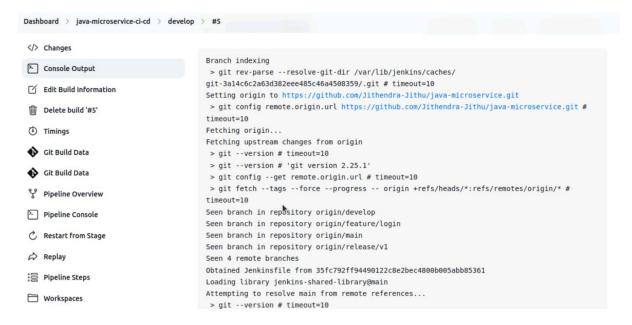
# Total pipeline ouput:



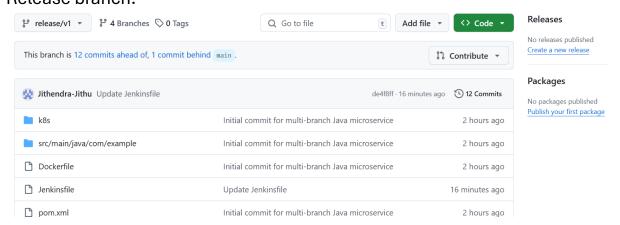
# Develop branch:



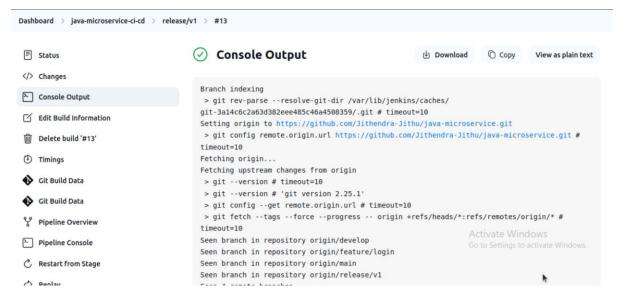
#### Output:



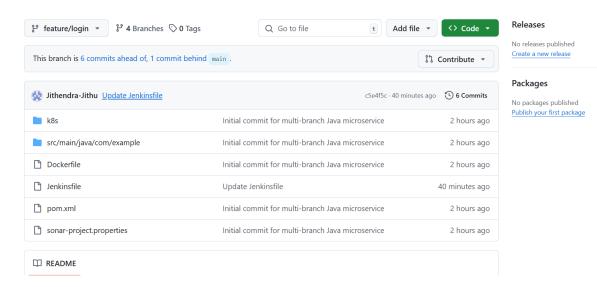
#### Release branch:



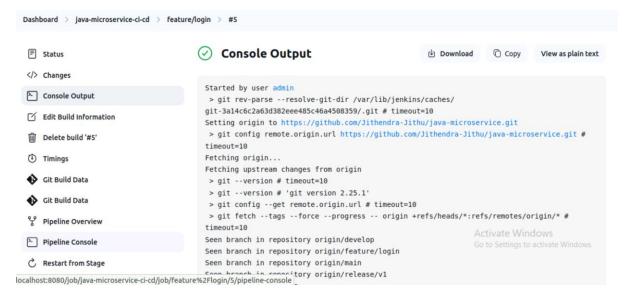
## Output:



### Feature/login:



# Output:



.