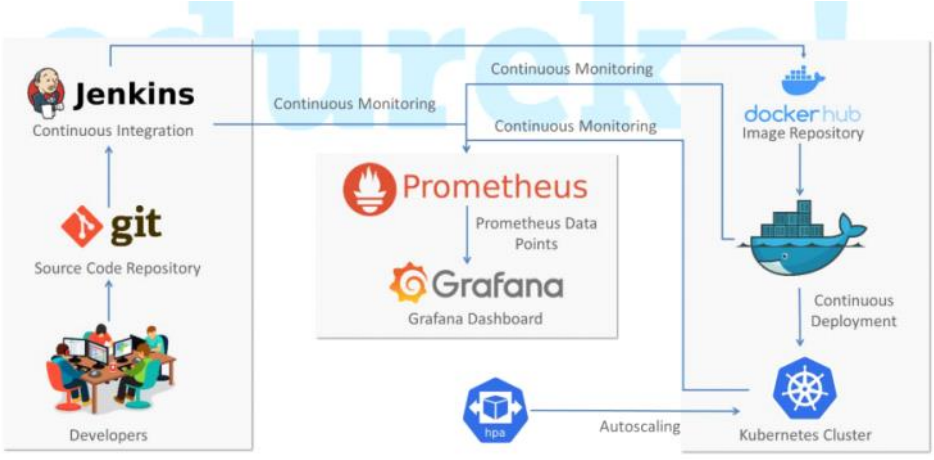
NOTE: Please consider PROJECT_1 Solution for the certification.
This Solution is just submitted including performed actions.

Problem Statement

A retail company Abstergo Corp. has recently setup an online shopping portal(website) to sell their products. Due to fierce competition, the company wants a solution that can reduce the time and effort it needs to enhance the functionality of their website on a regular basis. They are looking for an automated way to deploy the new code (for new features) to production website whenever they want.

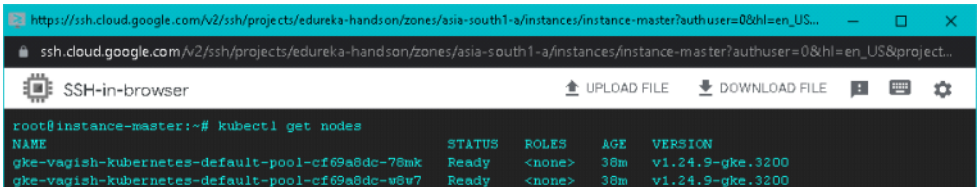
Business Requirements

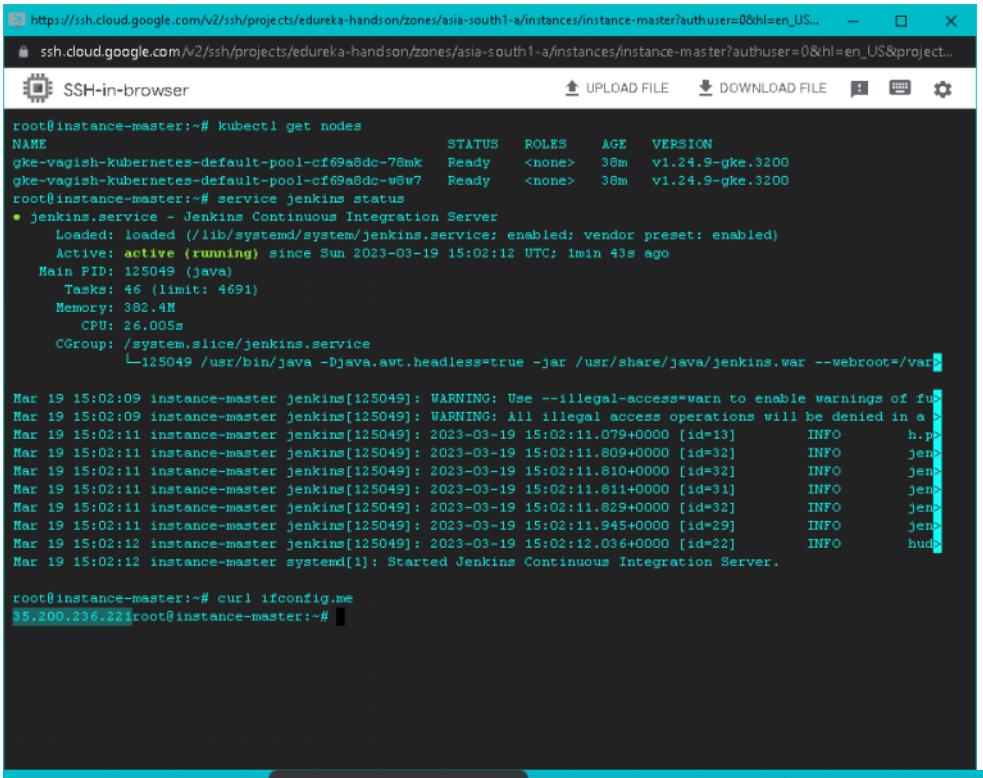
- The team of developers working on new features will merge their code to a GitHub repo.
- As soon as the code reaches GitHub, using a CI (Continuous Integration) pipeline, setup in Jenkins, automated builds will be triggered.
- The automated builds will frequently deploy new features to the production website.
- Every build will prepare a Dockerfile and push docker images to docker-hub.
- Every docker image will be deployed (Continuous Deployment) to a kubernetes-cluster.

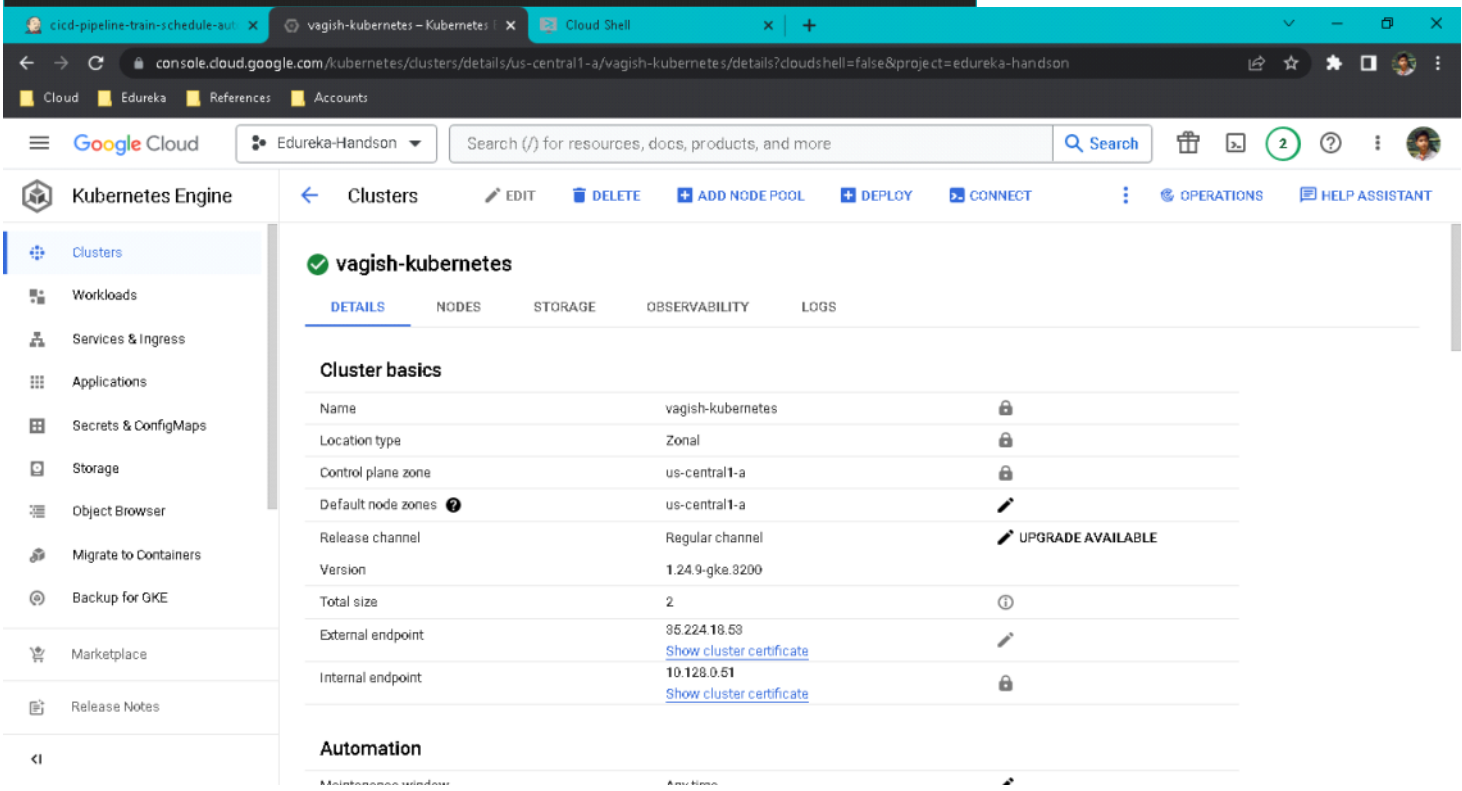


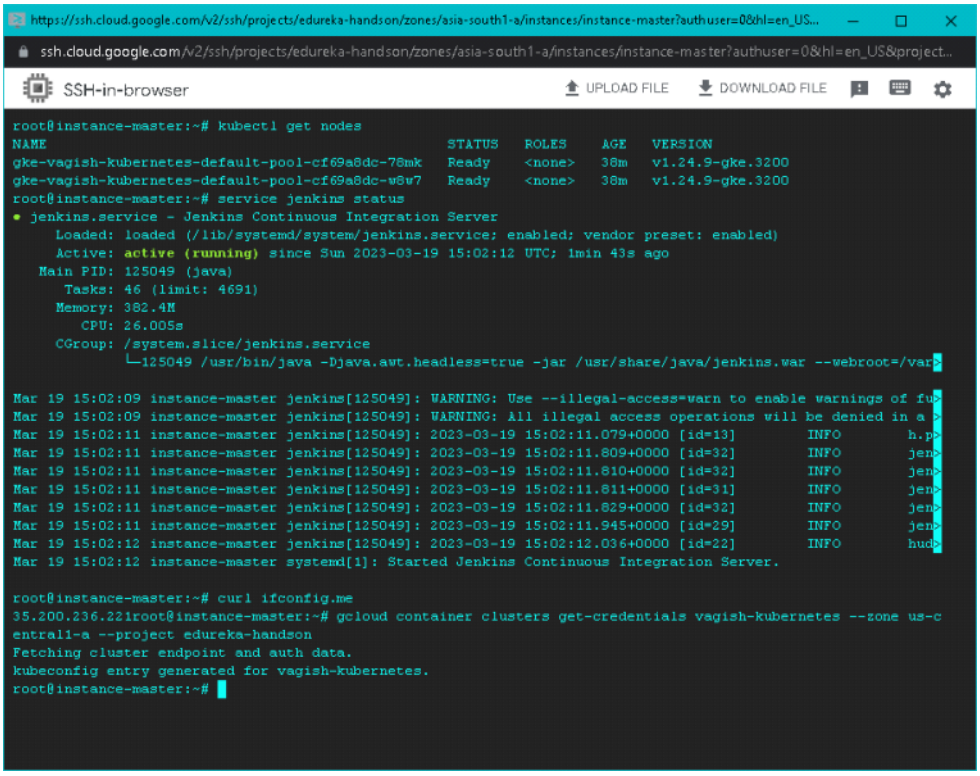
Fork the given repository to your own account and use it as the application for your pipeline project

GitHub: https://github.com/bhavukm/cicd-pipeline-train-schedule-autodeploy




https://ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US...
ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US&project...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
root@instance-master:~# kubectl get nodes
NAME STATUS ROLES AGE VERSION
gke-vagish-kubernetes-default-pool-cf69a8dc-78mk Ready <none> 38m v1.24.9-gke.3200
gke-vagish-kubernetes-default-pool-cf69a8dc-w8v7 Ready <none> 38m v1.24.9-gke.3200
root@instance-master:~# service jenkins status
● jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
Active: active (running) since Sun 2023-03-19 15:02:12 UTC; 1min 43s ago
Main PID: 125049 (java)
Tasks: 46 (limit: 4691)
Memory: 382.4M
CPU: 26.005s
CGroup: /system.slice/jenkins.service
└125049 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var
Mar 19 15:02:09 instance-master jenkins[125049]: WARNING: Use --illegal-access=warn to enable warnings of fu
Mar 19 15:02:09 instance-master jenkins[125049]: WARNING: All illegal access operations will be denied in a
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.079+0000 [id=13] INFO h.p
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.809+0000 [id=32] INFO jen
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.810+0000 [id=32] INFO jen
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.811+0000 [id=31] INFO jen
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.829+0000 [id=32] INFO jen
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.945+0000 [id=29] INFO jen
Mar 19 15:02:12 instance-master jenkins[125049]: 2023-03-19 15:02:12.036+0000 [id=22] INFO hud
Mar 19 15:02:12 instance-master systemd[1]: Started Jenkins Continuous Integration Server.
root@instance-master:~# curl ifconfig.me
35.200.236.221root@instance-master:~#


cicd-pipeline-train-schedule-aut
vagish-kubernetes – Kubernetes
Cloud Shell
console.cloud.google.com/kubernetes/clusters/details/us-central1-a/vagish-kubernetes/details?cloudshell=false&project=edureka-handson
Cloud
Edureka
References
Accounts
Google Cloud
Edureka-Handson
Search (/) for resources, docs, products, and more
Search
Kubernetes Engine
Clusters
EDIT
DELETE
ADD NODE POOL
DEPLOY
CONNECT
OPERATIONS
HELP ASSISTANT
Clusters
Workloads
Services & Ingress
Applications
Secrets & ConfigMaps
Storage
Object Browser
Migrate to Containers
Backup for GKE
Marketplace
Release Notes
vagish-kubernetes
DETAILS
NODES
STORAGE
OBSERVABILITY
LOGS
Cluster basics
Name
vagish-kubernetes
Location type
Zonal
Control plane zone
us-central1-a
Default node zones
us-central1-a
Release channel
Regular channel
UPGRADE AVAILABLE
Version
1.24.9-gke.3200
Total size
2
External endpoint
35.224.18.53
Show cluster certificate
Internal endpoint
10.128.0.51
Show cluster certificate
Automation


https://ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US...
ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US&project...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
root@instance-master:~# kubectl get nodes
NAME STATUS ROLES AGE VERSION
gke-vagish-kubernetes-default-pool-cf69a8dc-78mk Ready <none> 38m v1.24.9-gke.3200
gke-vagish-kubernetes-default-pool-cf69a8dc-w8v7 Ready <none> 38m v1.24.9-gke.3200
root@instance-master:~# service jenkins status
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Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.809+0000 [id=32] INFO jen
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.810+0000 [id=32] INFO jen
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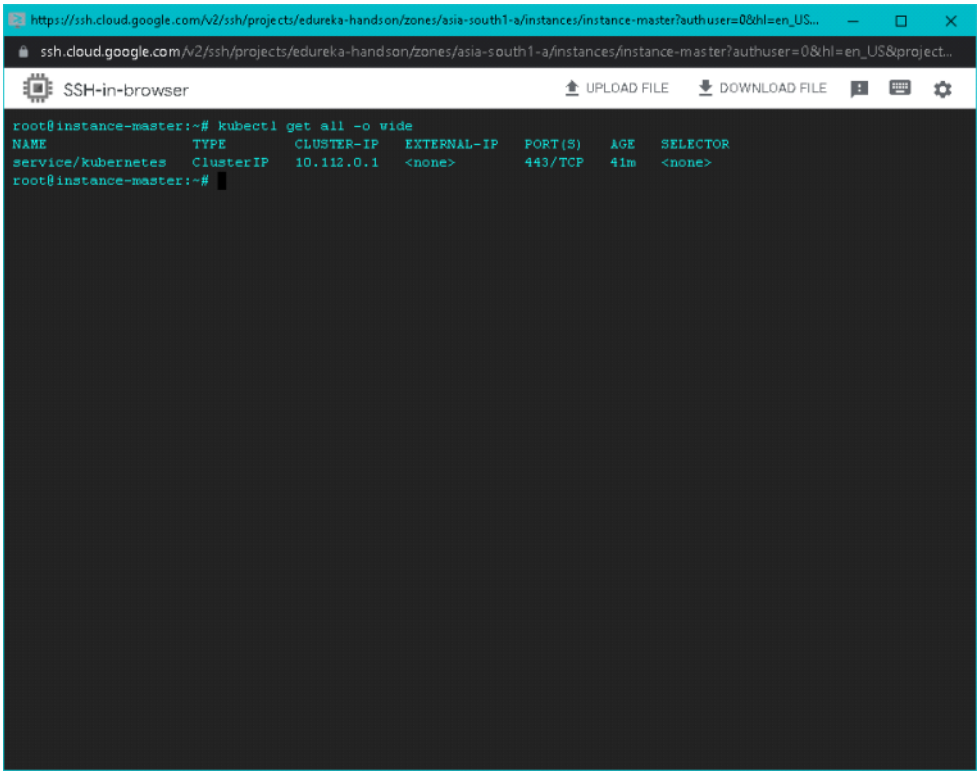
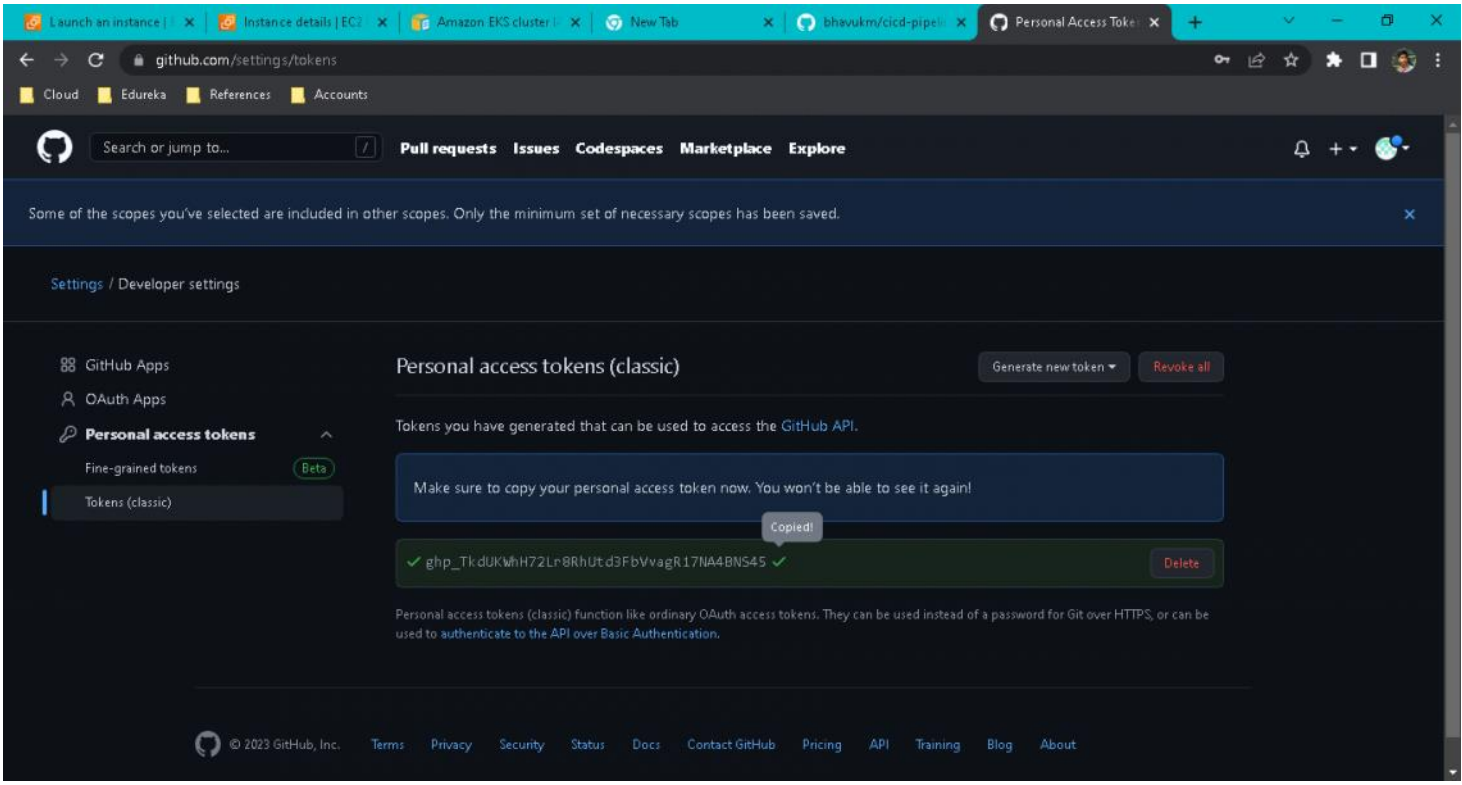
Mar 19 15:02:11 instance-master jenkins[125049]: 2023-03-19 15:02:11.945+0000 [id=29] INFO jen
Mar 19 15:02:12 instance-master jenkins[125049]: 2023-03-19 15:02:12.036+0000 [id=22] INFO hud
Mar 19 15:02:12 instance-master systemd[1]: Started Jenkins Continuous Integration Server.
root@instance-master:~# curl ifconfig.me
35.200.236.221root@instance-master:~# gcloud container clusters get-credentials vagish-kubernetes --zone us-c
entral1-a --project edureka-handson
Fetching cluster endpoint and auth data.
kubeconfig entry generated for vagish-kubernetes.
root@instance-master:~#


https://ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US...
ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US&project...
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
root@instance-master:~# kubectl get all -o wide
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE SELECTOR
service/kubernetes ClusterIP 10.112.0.1 <none> 443/TCP 41m <none>
root@instance-master:~#


github.com/settings/tokens
Search or jump to...
Pull requests
Issues
Codespaces
Marketplace
Explore
Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved.
Settings / Developer settings
GitHub Apps
OAuth Apps
Personal access tokens
Fine-grained tokens
Beta
Tokens (classic)
Personal access tokens (classic)
Generate new token
Revoke all
Tokens you have generated that can be used to access the GitHub API.
Make sure to copy your personal access token now. You won't be able to see it again!
Copied!
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
Delete
Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.
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API
Training
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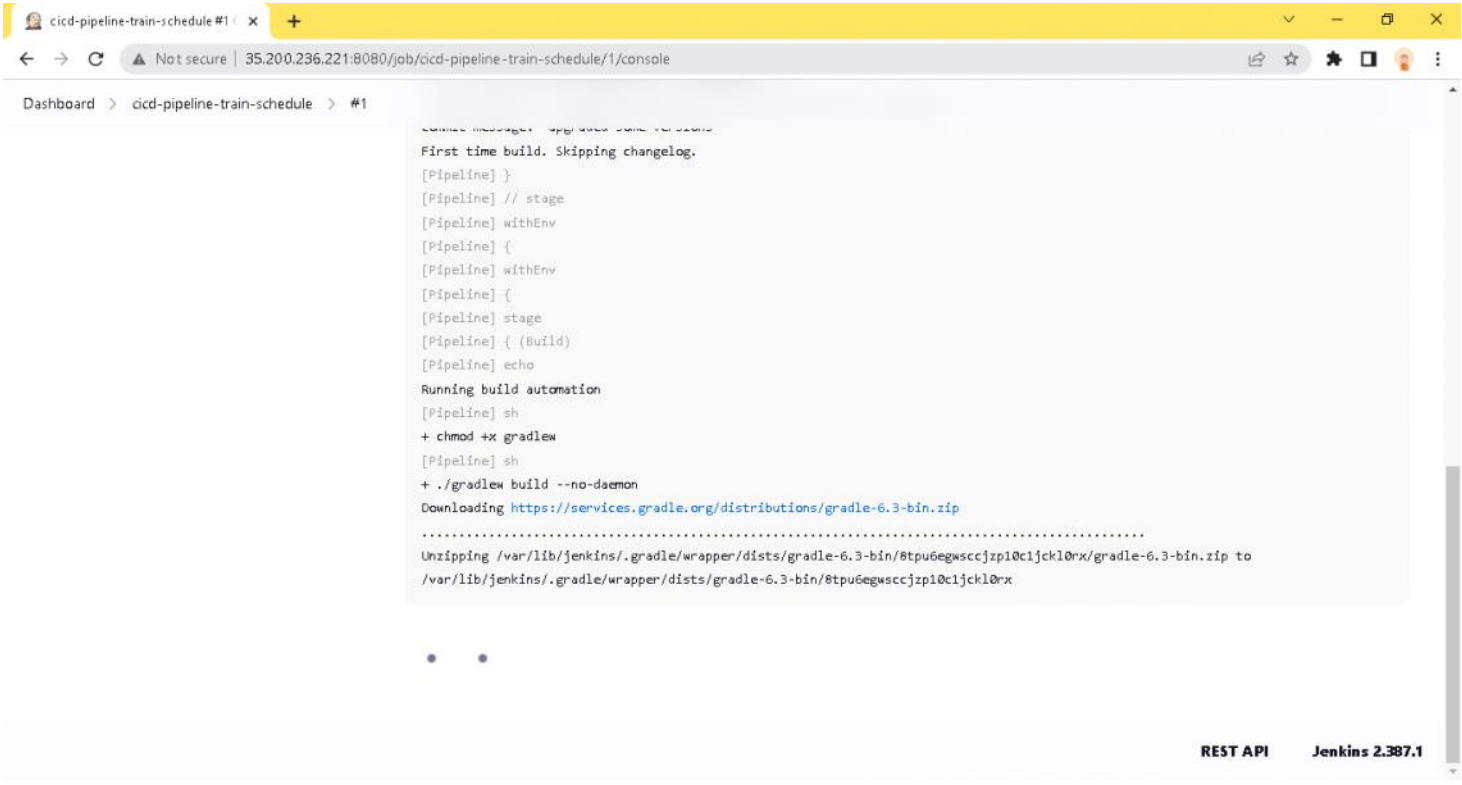
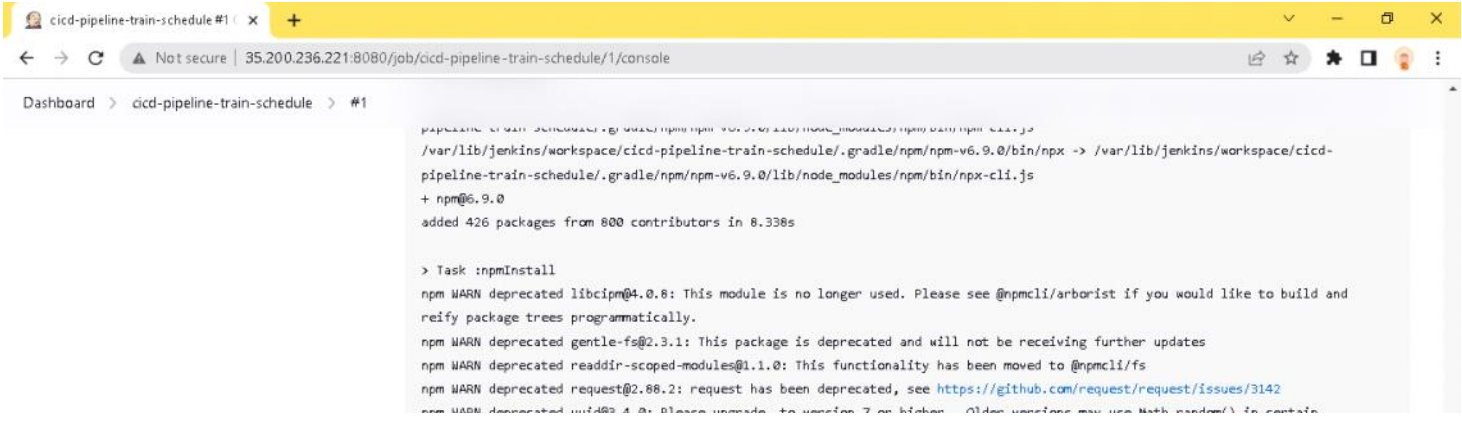
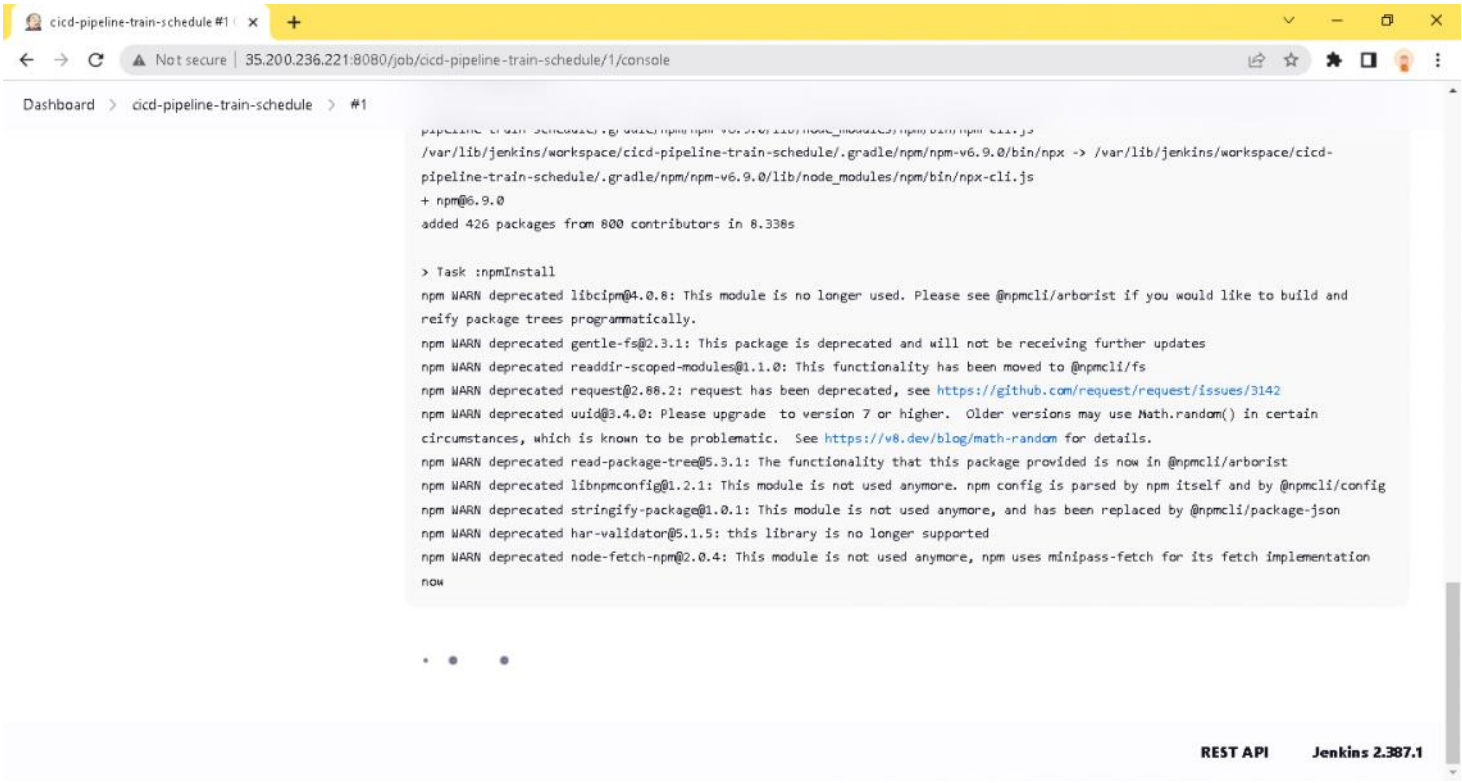
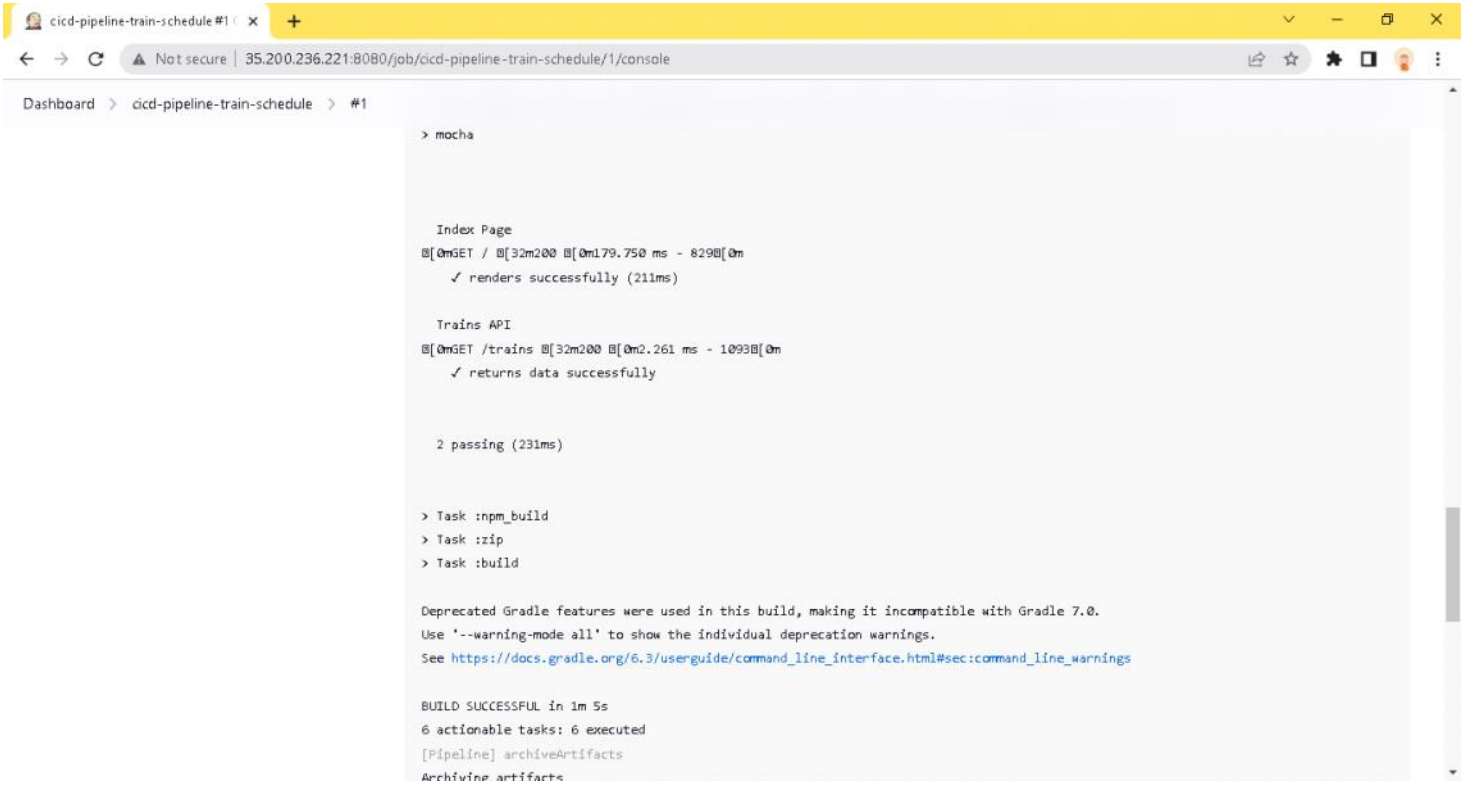
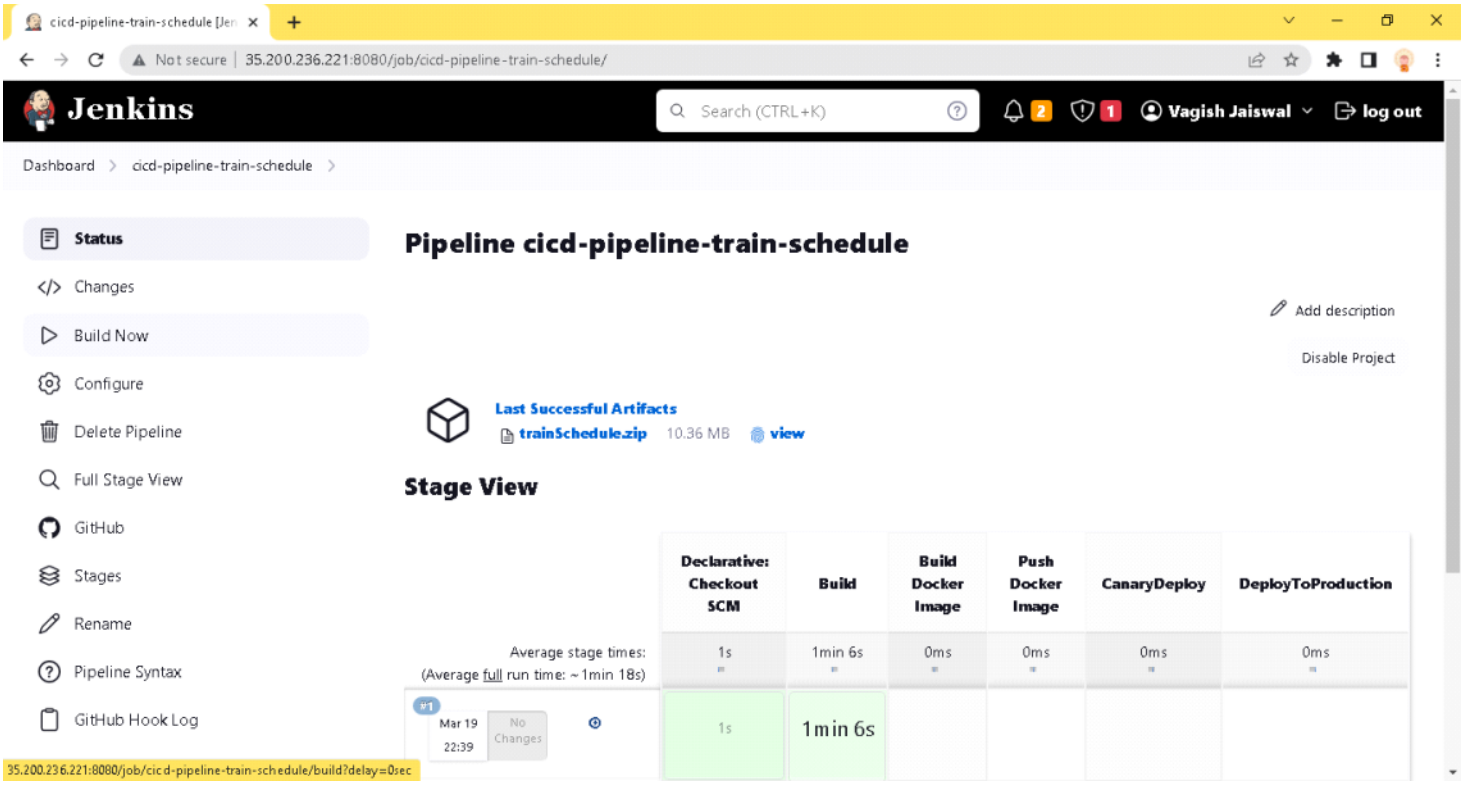
About

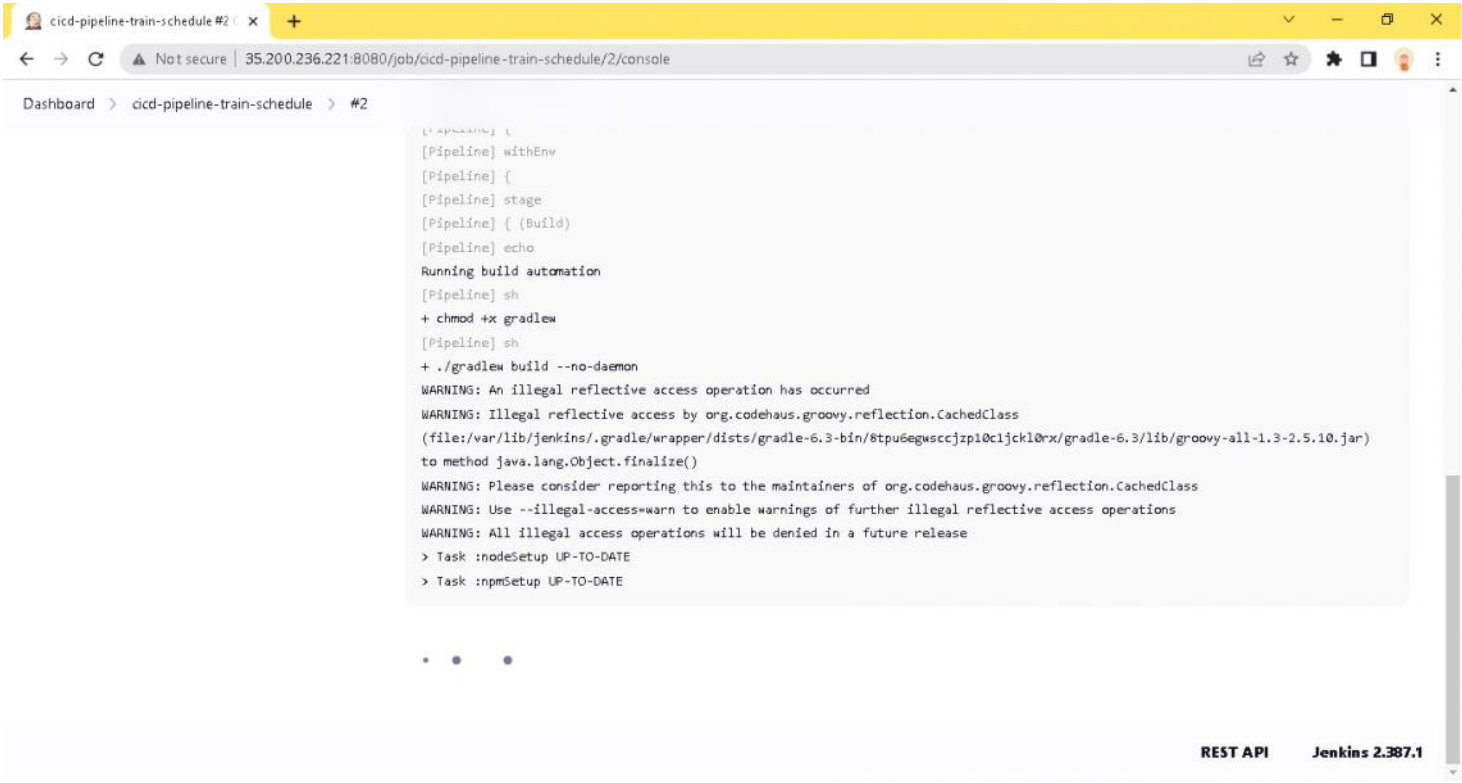

cicd-pipeline-train-schedule #1
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/1/console
Dashboard > cicd-pipeline-train-schedule > #1
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Running build automation
[Pipeline] sh
+ chmod +x gradlew
[Pipeline] sh
+ ./gradlew build --no-daemon
Downloading https://services.gradle.org/distributions/gradle-6.3-bin.zip
Unzipping /var/lib/jenkins/.gradle/wrapper/dists/gradle-6.3-bin/8tpu6egwsccjzp10c1jckl0rx/gradle-6.3-bin.zip to /var/lib/jenkins/.gradle/wrapper/dists/gradle-6.3-bin/8tpu6egwsccjzp10c1jckl0rx
REST API
Jenkins 2.387.1

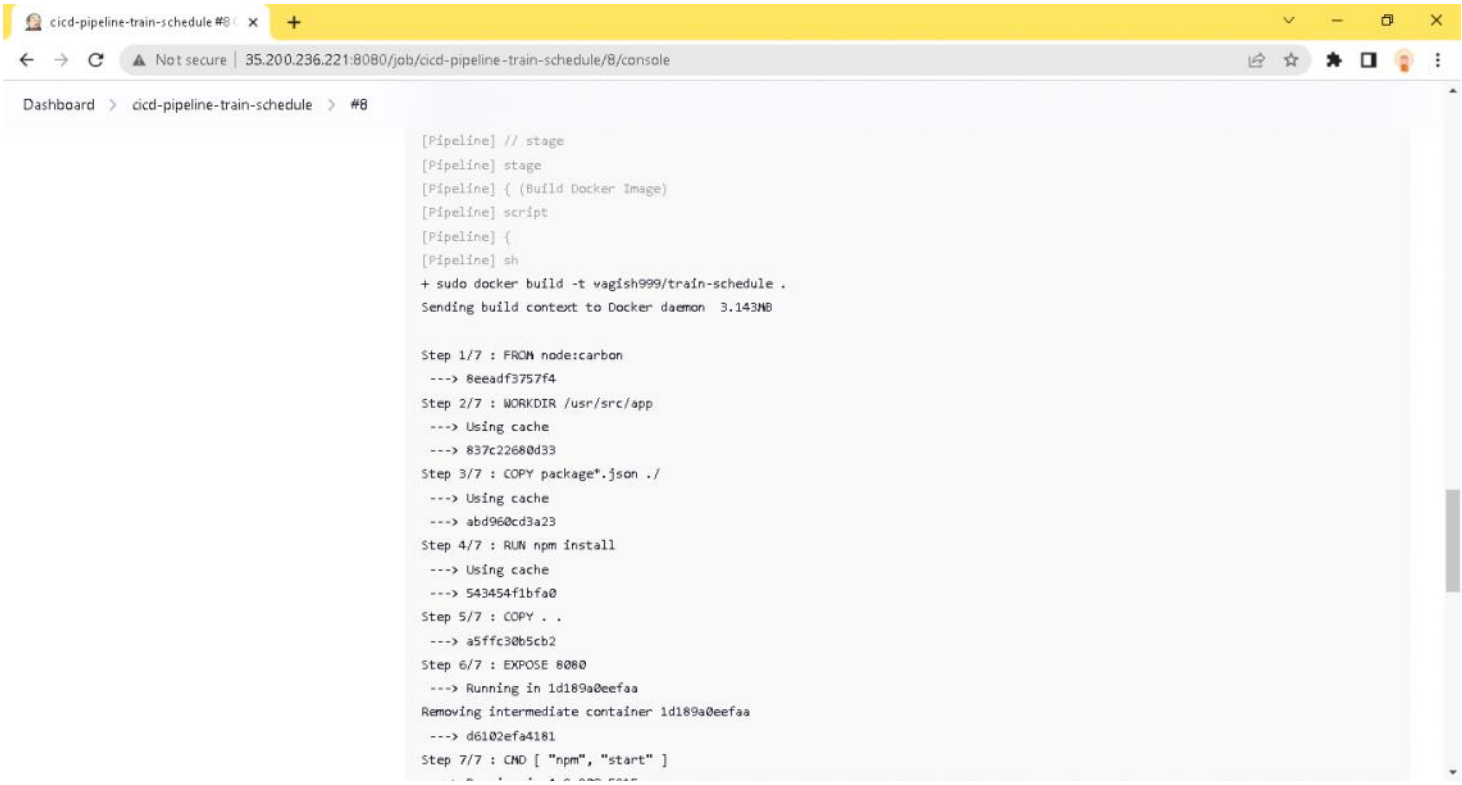

cicd-pipeline-train-schedule #1
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/1/console
Dashboard > cicd-pipeline-train-schedule > #1
/var/lib/jenkins/workspace/cicd-pipeline-train-schedule/.gradle/npm/npm-v6.9.0/bin/npx -> /var/lib/jenkins/workspace/cicd-pipeline-train-schedule/.gradle/npm/npm-v6.9.0/lib/node_modules/npm/bin/npx-cli.js
+ npm@6.9.0
added 426 packages from 800 contributors in 8.338s
> Task :npmInstall
npm WARN deprecated libcipm@4.0.8: This module is no longer used. Please see @npmcli/arborist if you would like to build and reify package trees programmatically.
npm WARN deprecated gentle-fs@2.3.1: This package is deprecated and will not be receiving further updates
npm WARN deprecated readdir-scoped-modules@1.1.0: This functionality has been moved to @npmcli/fs
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142

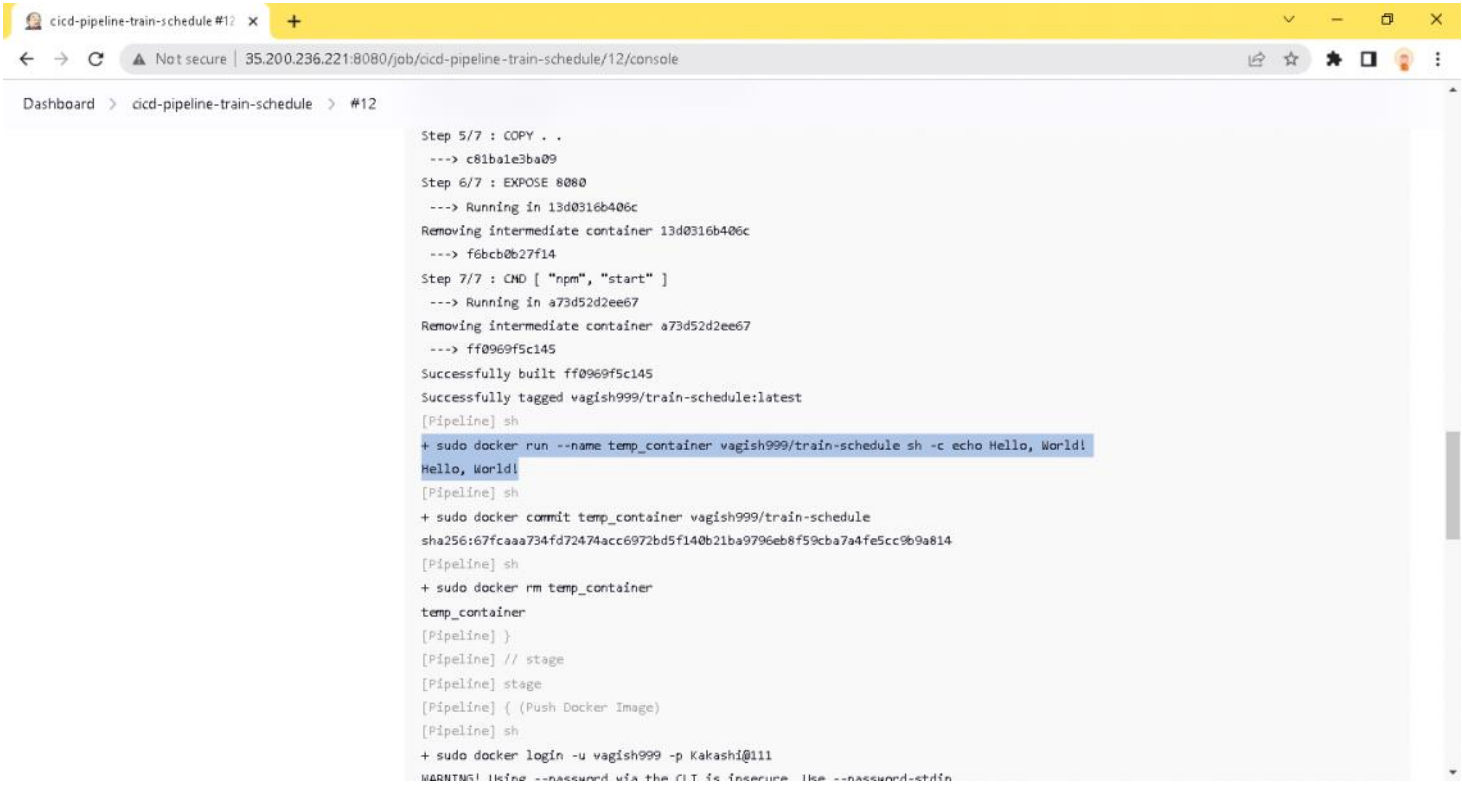

cicd-pipeline-train-schedule #1
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/1/console
Dashboard > cicd-pipeline-train-schedule > #1
/var/lib/jenkins/workspace/cicd-pipeline-train-schedule/.gradle/npm/npm-v6.9.0/bin/npx -> /var/lib/jenkins/workspace/cicd-pipeline-train-schedule/.gradle/npm/npm-v6.9.0/lib/node_modules/npm/bin/npx-cli.js
+ npm@6.9.0
added 426 packages from 800 contributors in 8.338s
> Task :npmInstall
npm WARN deprecated libcipm@4.0.8: This module is no longer used. Please see @npmcli/arborist if you would like to build and reify package trees programmatically.
npm WARN deprecated gentle-fs@2.3.1: This package is deprecated and will not be receiving further updates
npm WARN deprecated readdir-scoped-modules@1.1.0: This functionality has been moved to @npmcli/fs
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated read-package-tree@5.3.1: The functionality that this package provided is now in @npmcli/arborist
npm WARN deprecated libnpmconfig@1.2.1: This module is not used anymore. npm config is parsed by npm itself and by @npmcli/config
npm WARN deprecated stringify-package@1.0.1: This module is not used anymore, and has been replaced by @npmcli/package-json
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated node-fetch-npm@2.0.4: This module is not used anymore, npm uses minipass-fetch for its fetch implementation now
REST API
Jenkins 2.387.1

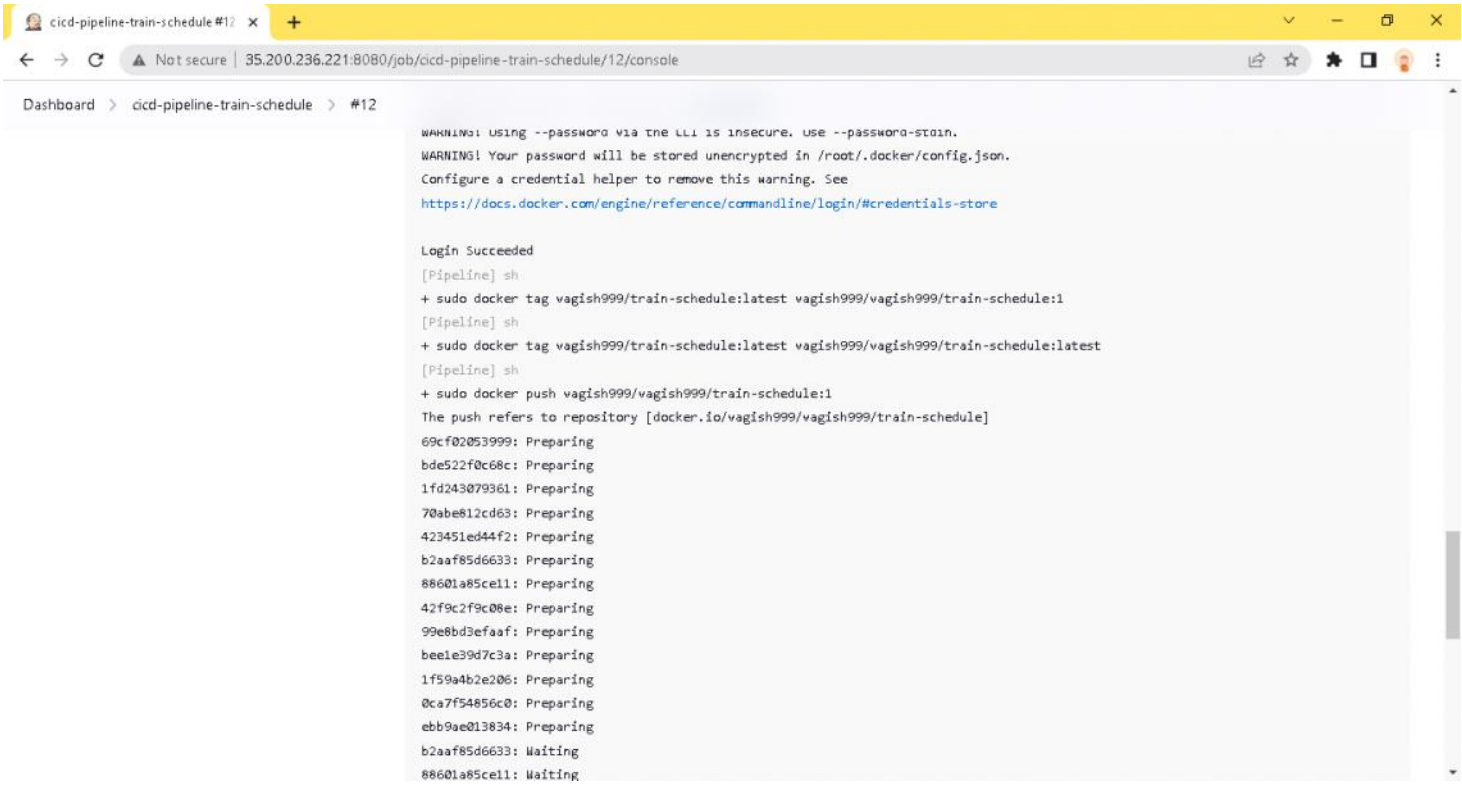

cicd-pipeline-train-schedule #1
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/1/console
Dashboard > cicd-pipeline-train-schedule > #1
> mocha
Index Page
[0mGET / [32m200 [0m179.750 ms - 829[0m
✓ renders successfully (211ms)
Trains API
[0mGET /trains [32m200 [0m2.261 ms - 1093[0m
✓ returns data successfully
2 passing (231ms)
> Task :npm_build
> Task :zip
> Task :build
Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.3/userguide/command_line_interface.html#sec:command_line_warnings
BUILD SUCCESSFUL in 1m 5s
6 actionable tasks: 6 executed
[Pipeline] archiveArtifacts
Archiving artifacts

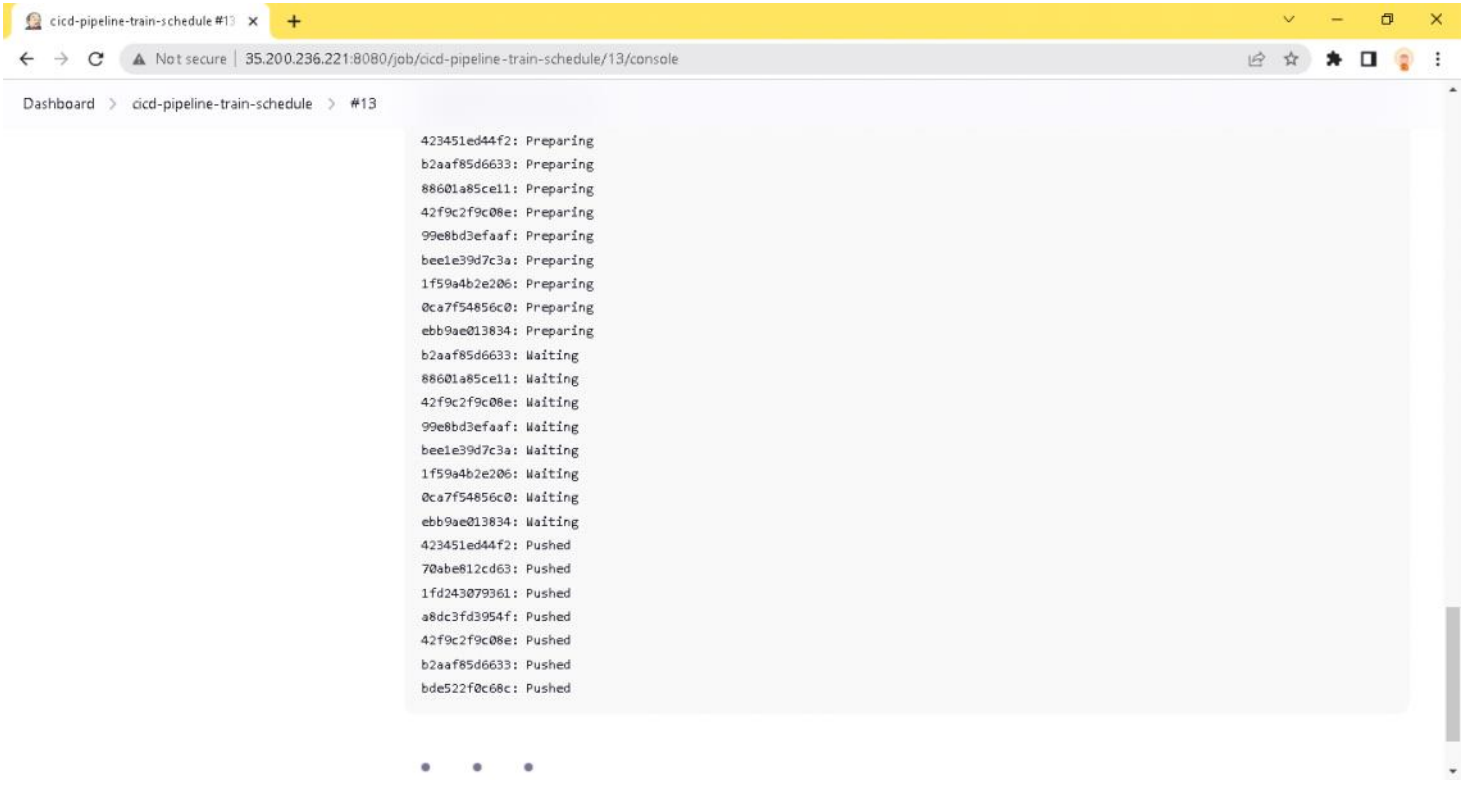

cicd-pipeline-train-schedule [Jen
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/
Jenkins
Search (CTRL+K)
Vagish Jaiswal
log out
Dashboard > cicd-pipeline-train-schedule >
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
GitHub
Stages
Rename
Pipeline Syntax
GitHub Hook Log
Pipeline cicd-pipeline-train-schedule
Add description
Disable Project
Last Successful Artifacts
trainSchedule.zip 10.36 MB view
Stage View
Declarative: Checkout SCM
Build
Build Docker Image
Push Docker Image
CanaryDeploy
DeployToProduction
Average stage times:
(Average full run time: ~1min 18s)
1s
1min 6s
0ms
0ms
0ms
0ms
#1
Mar 19
22:39
No Changes
1s
1min 6s
35.200.236.221:8080/job/cicd-pipeline-train-schedule/build?delay=0sec

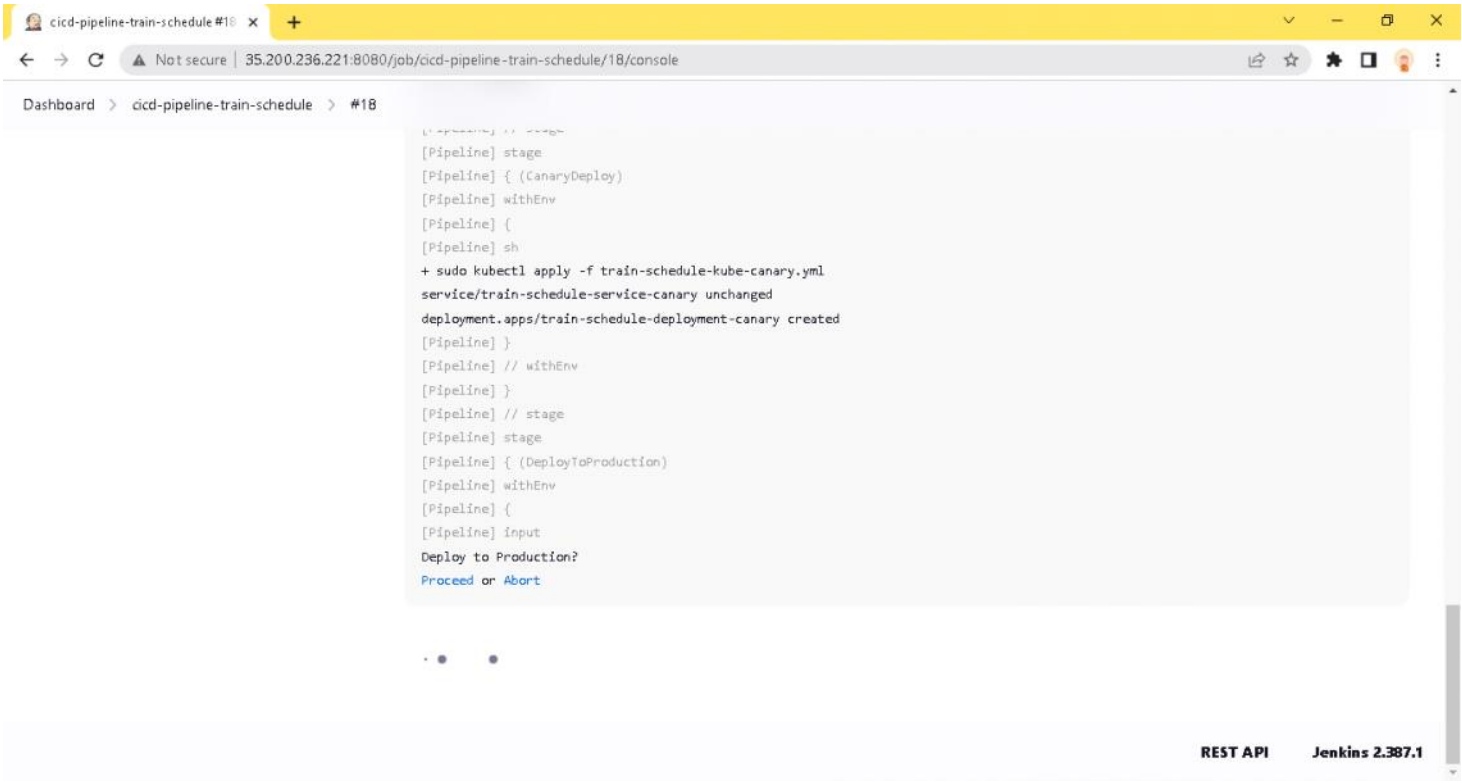

cicd-pipeline-train-schedule #2
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/2/console
Dashboard > cicd-pipeline-train-schedule > #2
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Running build automation
[Pipeline] sh
+ chmod +x gradlew
[Pipeline] sh
+ ./gradlew build --no-daemon
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.codehaus.groovy.reflection.CachedClass
(file:/var/lib/jenkins/.gradle/wrapper/dists/gradle-6.3-bin/8tpu6egwsccjzp10c1jckl0rx/gradle-6.3/lib/groovy-all-1.3-2.5.10.jar)
to method java.lang.Object.finalize()
WARNING: Please consider reporting this to the maintainers of org.codehaus.groovy.reflection.CachedClass
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
> Task :nodeSetup UP-TO-DATE
> Task :npmSetup UP-TO-DATE
REST API
Jenkins 2.387.1

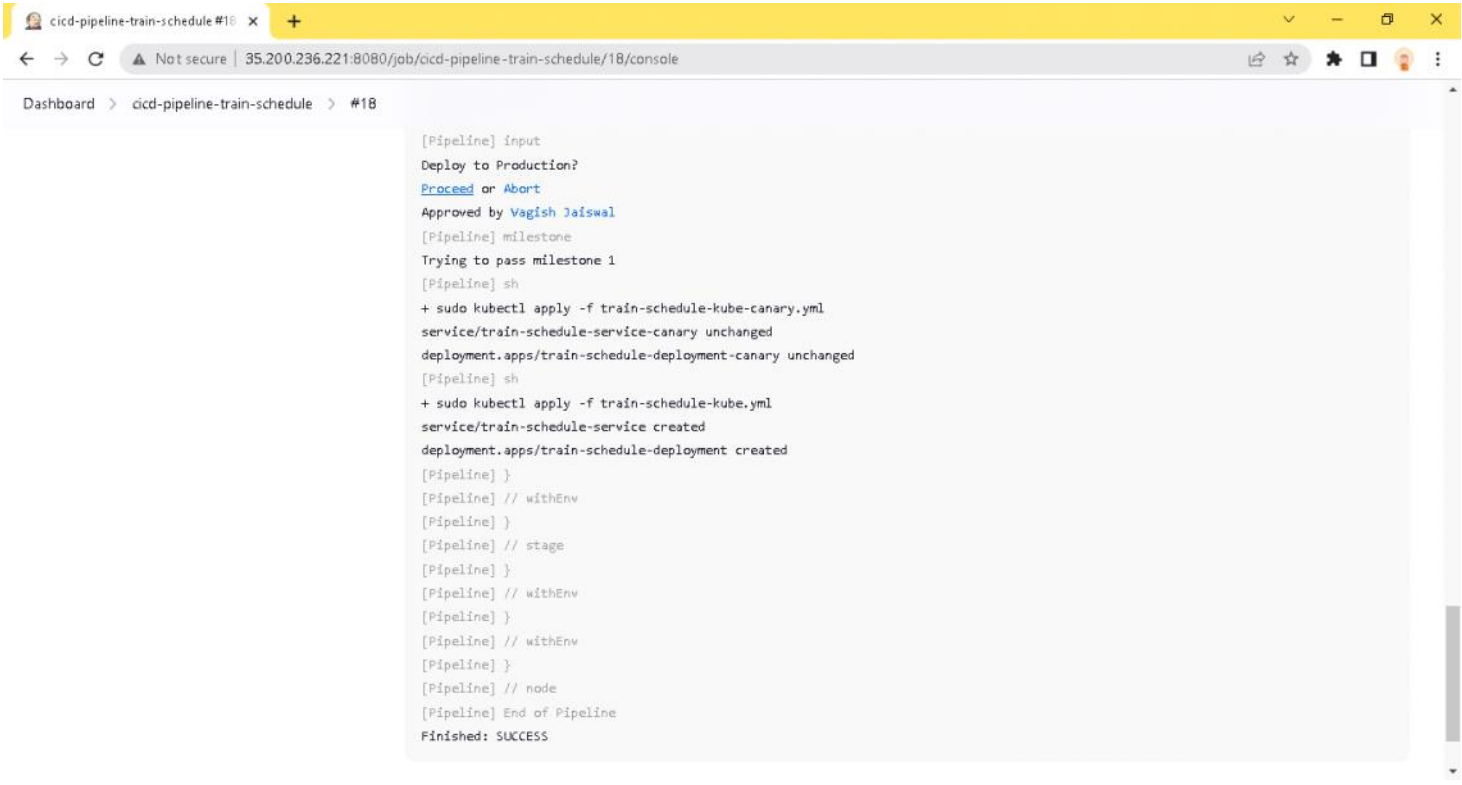

cicd-pipeline-train-schedule #8
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/8/console
Dashboard > cicd-pipeline-train-schedule > #8
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build Docker Image)
[Pipeline] script
[Pipeline] {
[Pipeline] sh
+ sudo docker build -t vagish999/train-schedule .
Sending build context to Docker daemon 3.143MB
Step 1/7 : FROM node:carbon
---> 8eeadf3757f4
Step 2/7 : WORKDIR /usr/src/app
---> Using cache
---> 837c22680d33
Step 3/7 : COPY package*.json ./
---> Using cache
---> abd960cd3a23
Step 4/7 : RUN npm install
---> Using cache
---> 543454f1bfa0
Step 5/7 : COPY . .
---> a5ffc30b5cb2
Step 6/7 : EXPOSE 8080
---> Running in 1d189a0eefaa
Removing intermediate container 1d189a0eefaa
---> d6102efa4181
Step 7/7 : CMD ["npm", "start"]

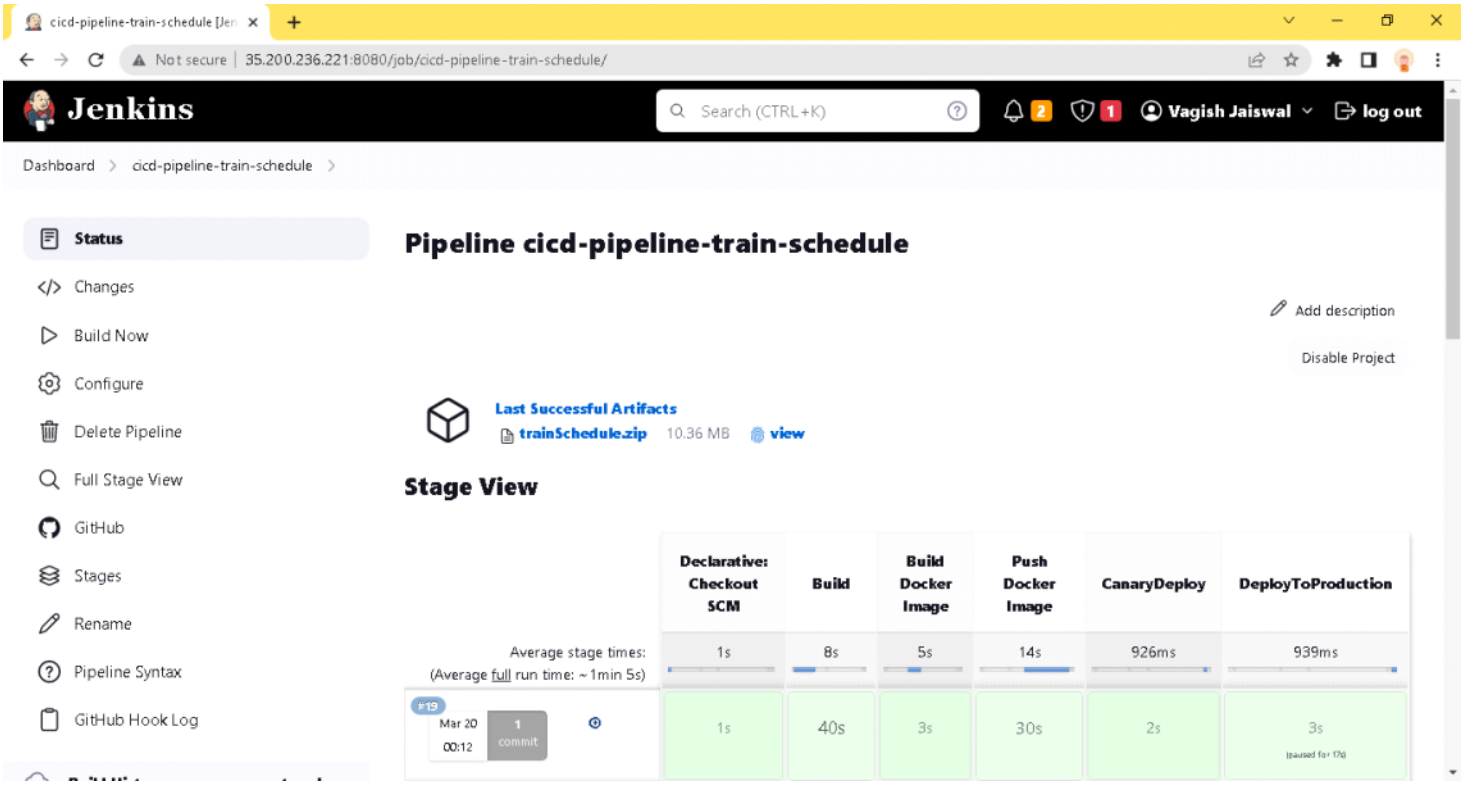

cicd-pipeline-train-schedule #12
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/12/console
Dashboard > cicd-pipeline-train-schedule > #12
Step 5/7 : COPY . .
---> c81ba1e3ba09
Step 6/7 : EXPOSE 8080
---> Running in 13d0316b406c
Removing intermediate container 13d0316b406c
---> f6bcb0b27f14
Step 7/7 : CMD ["npm", "start"]
---> Running in a73d52d2ee67
Removing intermediate container a73d52d2ee67
---> ff0969f5c145
Successfully built ff0969f5c145
Successfully tagged vagish999/train-schedule:latest
[Pipeline] sh
+ sudo docker run --name temp_container vagish999/train-schedule sh -c echo Hello, World!
Hello, World!
[Pipeline] sh
+ sudo docker commit temp_container vagish999/train-schedule
sha256:67fcaaa734fd72474acc6972bd5f140b21ba9796eb8f59cba7a4fe5cc9b9a814
[Pipeline] sh
+ sudo docker rm temp_container
temp_container
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Push Docker Image)
[Pipeline] sh
+ sudo docker login -u vagish999 -p Kakashi@111

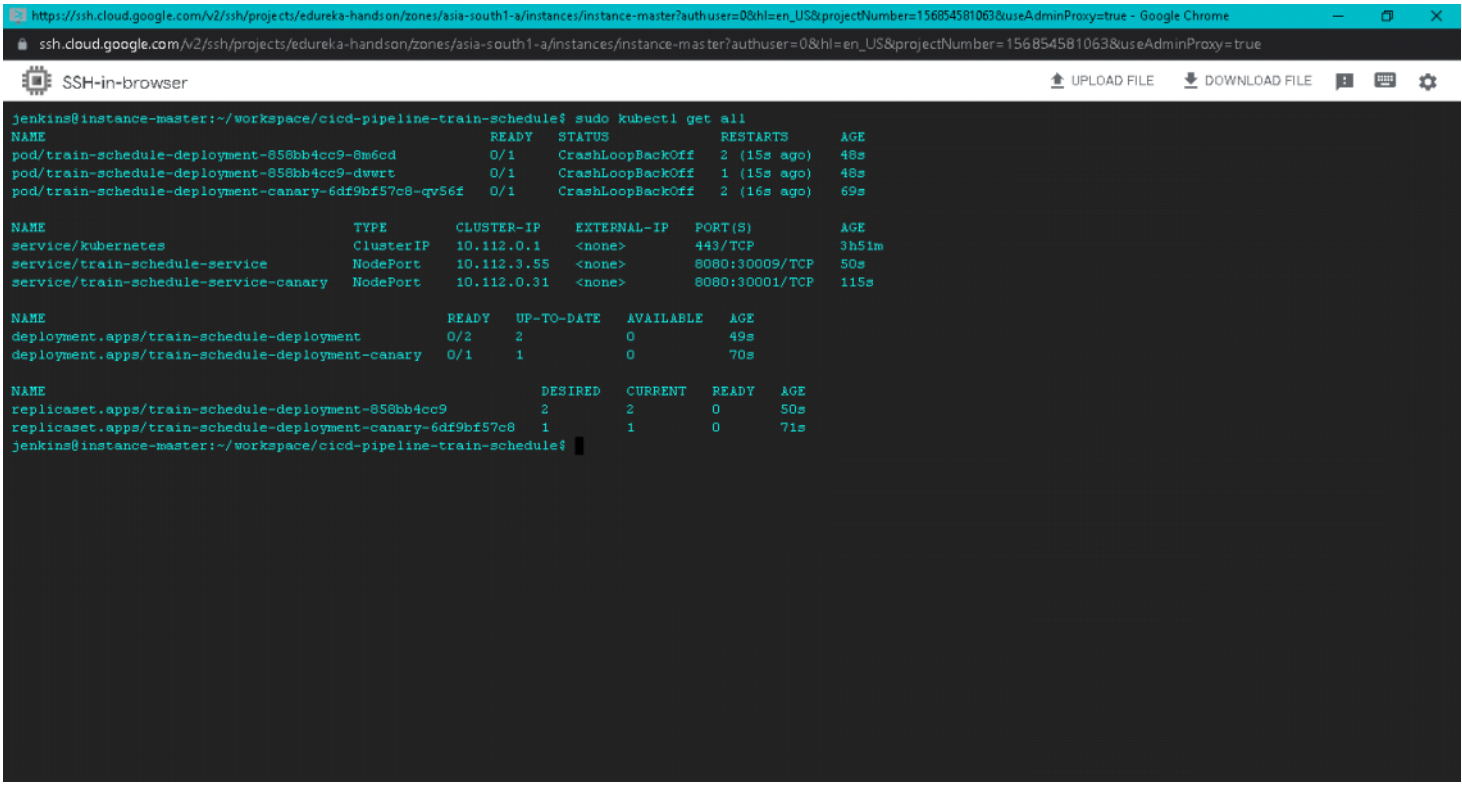

cicd-pipeline-train-schedule #12
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/12/console
Dashboard > cicd-pipeline-train-schedule > #12
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
[Pipeline] sh
+ sudo docker tag vagish999/train-schedule:latest vagish999/vagish999/train-schedule:1
[Pipeline] sh
+ sudo docker tag vagish999/train-schedule:latest vagish999/vagish999/train-schedule:latest
[Pipeline] sh
+ sudo docker push vagish999/vagish999/train-schedule:1
The push refers to repository [docker.io/vagish999/vagish999/train-schedule]
69cf02053999: Preparing
bde522f0c68c: Preparing
1fd243079361: Preparing
70abe812cd63: Preparing
423451ed44f2: Preparing
b2aaf85d6633: Preparing
88601a85ce11: Preparing
42f9c2f9c08e: Preparing
99e8bd3efaaf: Preparing
bee1e39d7c3a: Preparing
1f59a4b2e206: Preparing
0ca7f54856c0: Preparing
ebb9ae013834: Preparing
b2aaf85d6633: Waiting
88601a85ce11: Waiting

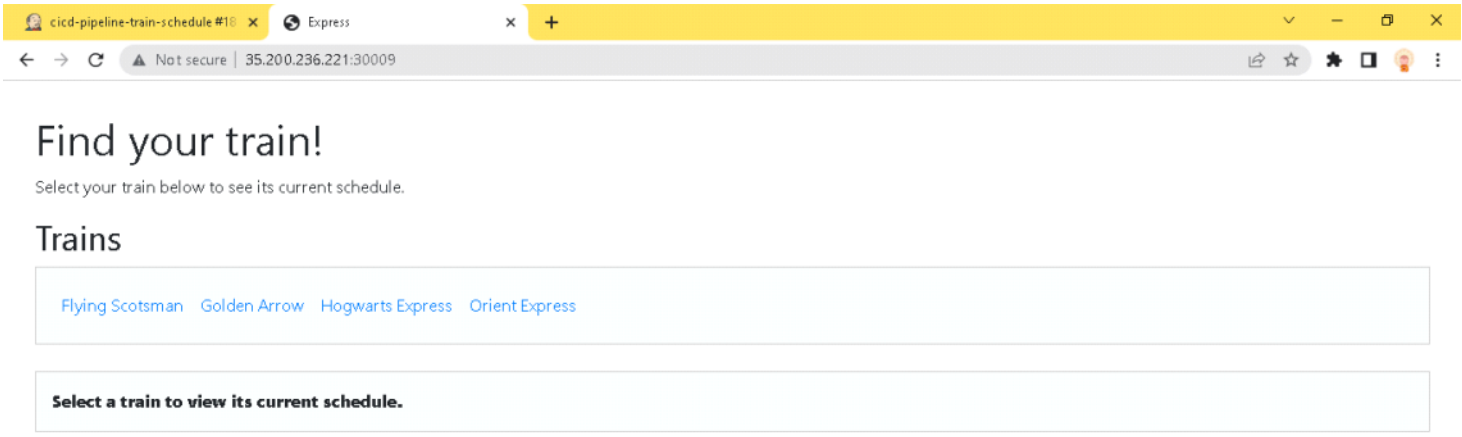

cicd-pipeline-train-schedule #13
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/13/console
Dashboard > cicd-pipeline-train-schedule > #13
423451ed44f2: Preparing
b2aaf85d6633: Preparing
88601a85ce11: Preparing
42f9c2f9c08e: Preparing
99e8bd3efaaf: Preparing
bee1e39d7c3a: Preparing
1f59a4b2e206: Preparing
0ca7f54856c0: Preparing
ebb9ae013834: Preparing
b2aaf85d6633: Waiting
88601a85ce11: Waiting
42f9c2f9c08e: Waiting
99e8bd3efaaf: Waiting
bee1e39d7c3a: Waiting
1f59a4b2e206: Waiting
0ca7f54856c0: Waiting
ebb9ae013834: Waiting
423451ed44f2: Pushed
70abe812cd63: Pushed
1fd243079361: Pushed
a8dc3fd3954f: Pushed
42f9c2f9c08e: Pushed
b2aaf85d6633: Pushed
bde522f0c68c: Pushed

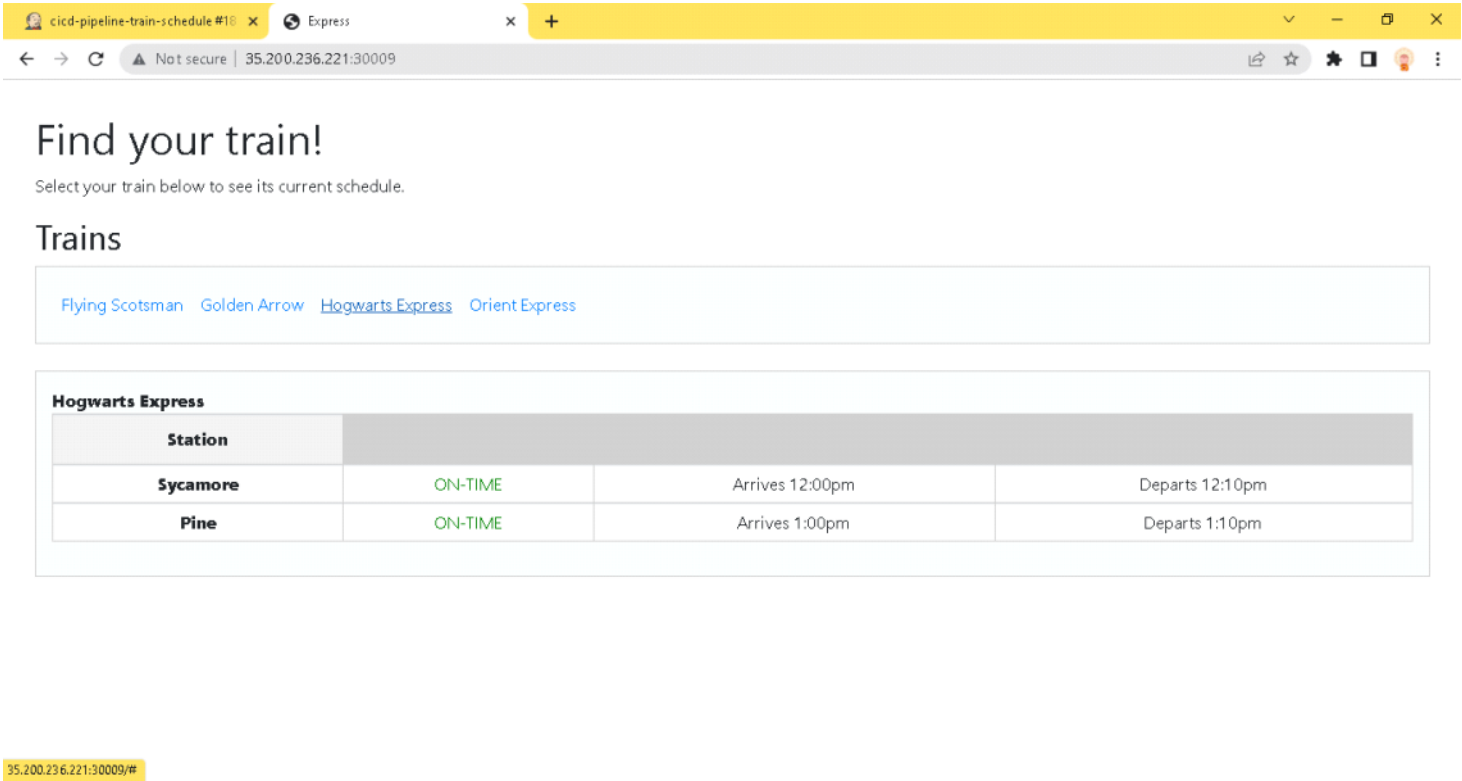

cicd-pipeline-train-schedule #18
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/18/console
Dashboard > cicd-pipeline-train-schedule > #18
[Pipeline] stage
[Pipeline] { (CanaryDeploy)
[Pipeline] withEnv
[Pipeline] {
[Pipeline] sh
+ sudo kubectl apply -f train-schedule-kube-canary.yml
service/train-schedule-service-canary unchanged
deployment.apps/train-schedule-deployment-canary created
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (DeployToProduction)
[Pipeline] withEnv
[Pipeline] {
[Pipeline] input
Deploy to Production?
Proceed or Abort
REST API
Jenkins 2.387.1


cicd-pipeline-train-schedule #18
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/18/console
Dashboard > cicd-pipeline-train-schedule > #18
[Pipeline] input
Deploy to Production?
Proceed or Abort
Approved by Vagish Jaiswal
[Pipeline] milestone
Trying to pass milestone 1
[Pipeline] sh
+ sudo kubectl apply -f train-schedule-kube-canary.yml
service/train-schedule-service-canary unchanged
deployment.apps/train-schedule-deployment-canary unchanged
[Pipeline] sh
+ sudo kubectl apply -f train-schedule-kube.yml
service/train-schedule-service created
deployment.apps/train-schedule-deployment created
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS


cicd-pipeline-train-schedule [Jen
Not secure | 35.200.236.221:8080/job/cicd-pipeline-train-schedule/
Jenkins
Search (CTRL+K)
Vagish Jaiswal
log out
Dashboard
cicd-pipeline-train-schedule
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
GitHub
Stages
Rename
Pipeline Syntax
GitHub Hook Log
Pipeline cicd-pipeline-train-schedule
Add description
Disable Project
Last Successful Artifacts
train5chedule.zip 10.36 MB view
Stage View
Declarative: Checkout SCM
Build
Build Docker Image
Push Docker Image
CanaryDeploy
DeployToProduction
Average stage times:
(Average full run time: ~1min 5s)
1s
8s
5s
14s
926ms
939ms
#19
Mar 20
00:12
1 commit
1s
40s
3s
30s
2s
3s


https://ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US&projectNumber=156854581063&useAdminProxy=true - Google Chrome
ssh.cloud.google.com/v2/ssh/projects/edureka-handson/zones/asia-south1-a/instances/instance-master?authuser=0&hl=en_US&projectNumber=156854581063&useAdminProxy=true
SSH-in-browser
UPLOAD FILE
DOWNLOAD FILE
jenkins@instance-master:~/workspace/cicd-pipeline-train-schedule$ sudo kubectl get all
NAME READY STATUS RESTARTS AGE
pod/train-schedule-deployment-858bb4cc9-8m6cd 0/1 CrashLoopBackOff 2 (15s ago) 48s
pod/train-schedule-deployment-858bb4cc9-dwwrt 0/1 CrashLoopBackOff 1 (15s ago) 48s
pod/train-schedule-deployment-canary-6df9bf57c8-qv56f 0/1 CrashLoopBackOff 2 (16s ago) 69s
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
service/kubernetes ClusterIP 10.112.0.1 <none> 443/TCP 3h51m
service/train-schedule-service NodePort 10.112.3.55 <none> 8080:30009/TCP 50s
service/train-schedule-service-canary NodePort 10.112.0.31 <none> 8080:30001/TCP 115s
NAME READY UP-TO-DATE AVAILABLE AGE
deployment.apps/train-schedule-deployment 0/2 2 0 49s
deployment.apps/train-schedule-deployment-canary 0/1 1 0 70s
NAME DESIRED CURRENT READY AGE
replicaset.apps/train-schedule-deployment-858bb4cc9 2 2 0 50s
replicaset.apps/train-schedule-deployment-canary-6df9bf57c8 1 1 0 71s
jenkins@instance-master:~/workspace/cicd-pipeline-train-schedule$





35.200.236.221:30009/#

Uploaded PDF with consolidated Screenshots.