Cloud Computing Assignment 2 Jenkins
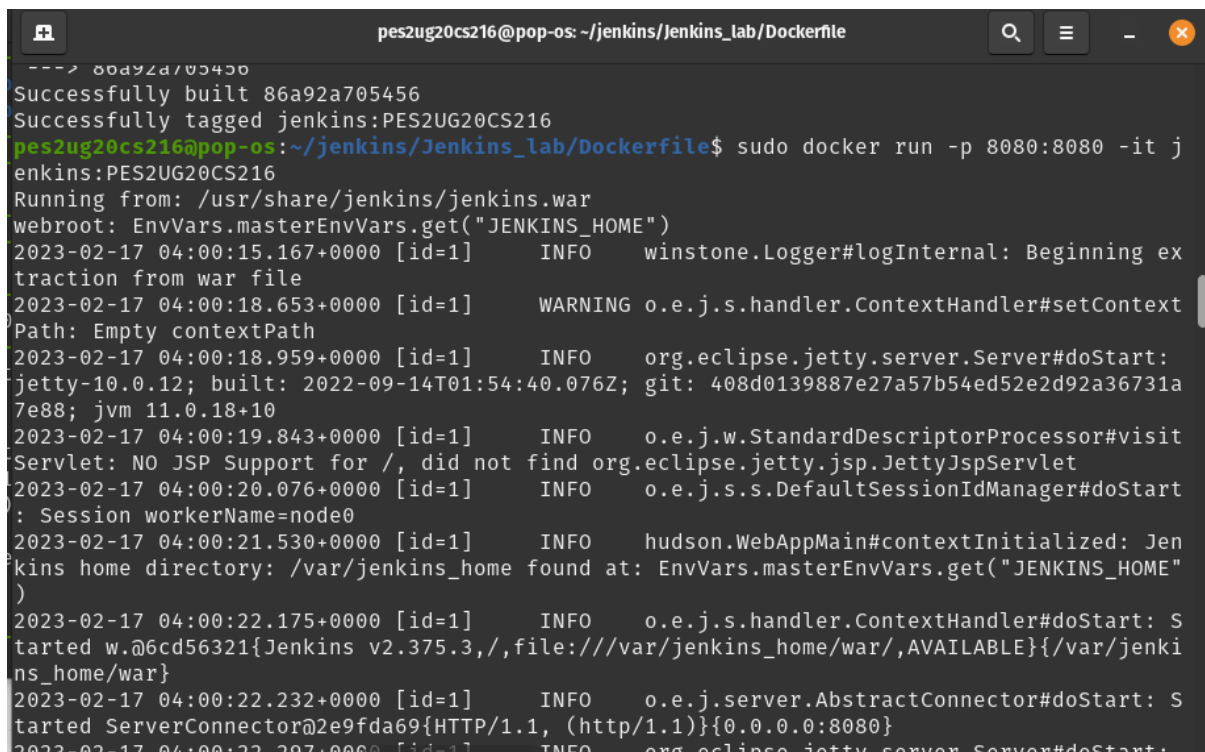
Name: Naren Chandrashekhar

SRN: PES2UG20CS216

Section: D

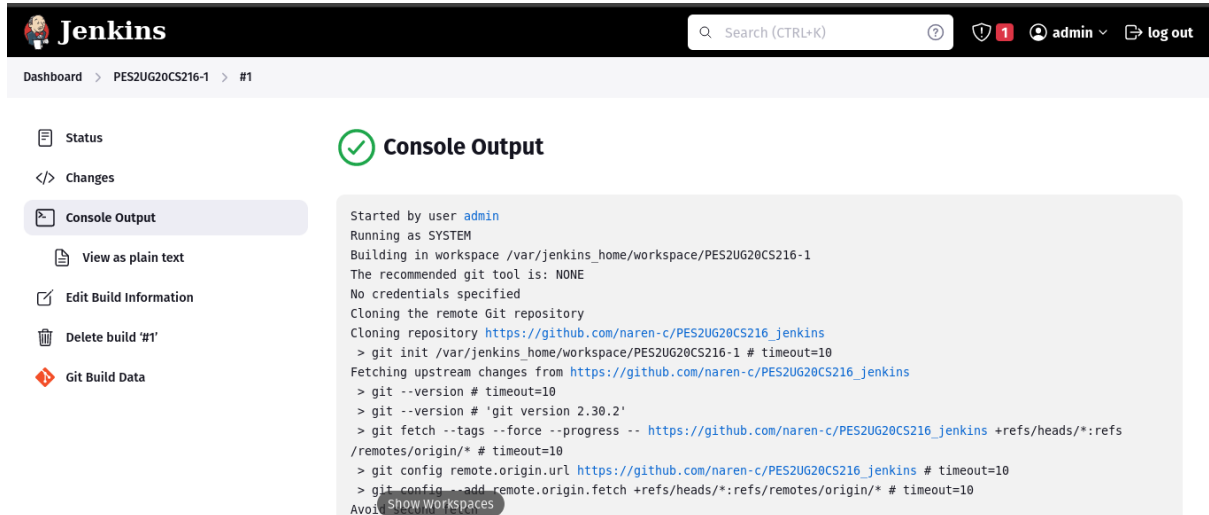## Task 1

1. Screenshot of the running Docker Container after installing Jenkins
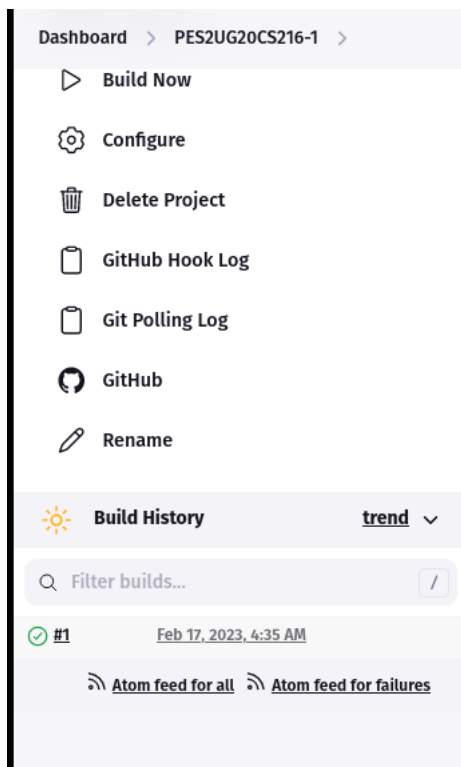
Task2

1. Picture showing the console output after the build is successful

2. Picture showing the Stable state of the task in Build History of Jenkins

Task 3

1. Console output of second job

✓ Console Output

```
Started by upstream project "PES2UG20CS216-1" build number 2
originally caused by:
 Started by user admin
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES2UG20CS216-2
[PES2UG20CS216-2] $ /bin/sh -xe /tmp/jenkins14513054914931237865.sh
+ /var/jenkins_home/workspace/PES2UG20CS216-1/main/hello_exec
Hello, World
Hello, Jenkins
I have successfully built and run
Finished: SUCCESS
```

2. Status page of first job

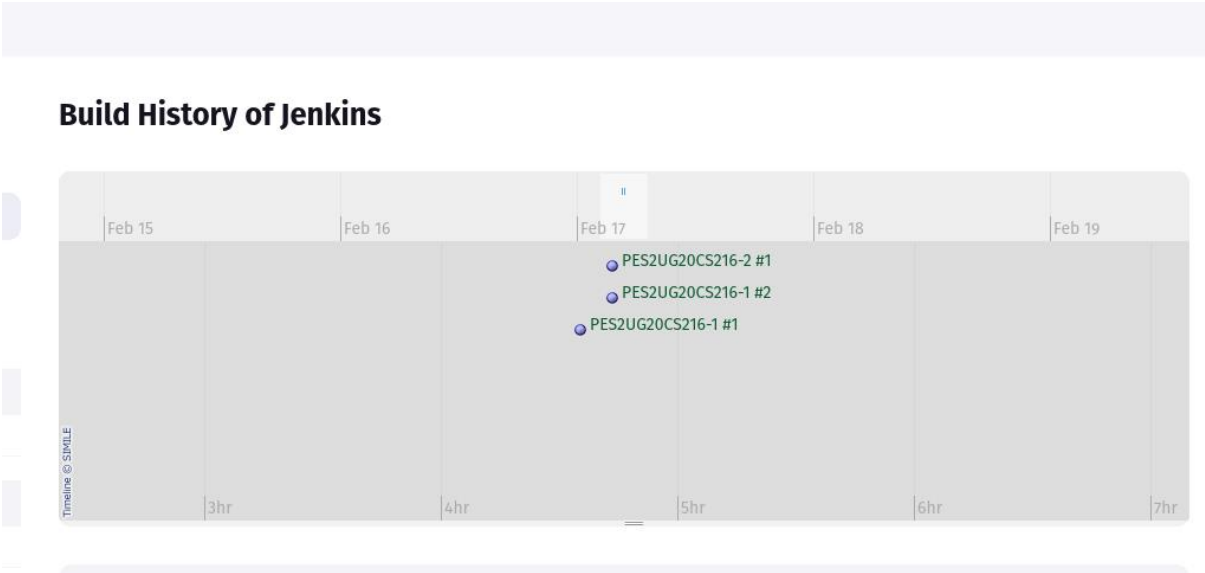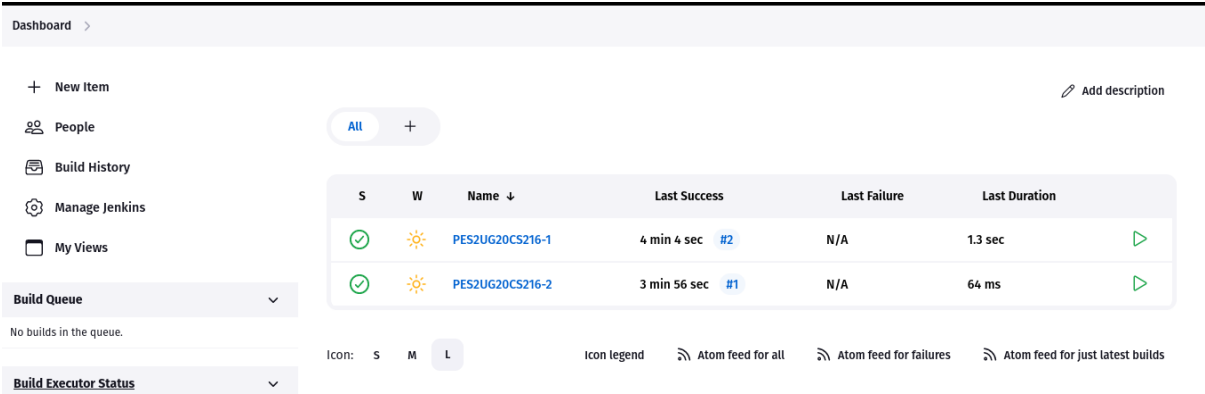## Project PES2UG20CS216-1

Downstream Projects

⊘ PES2UG20CS216-2

Permalinks

- Last build (#2), 2 min 25 sec ago
- Last stable build (#2), 2 min 25 sec ago
- Last successful build (#2), 2 min 25 sec ago
- Last completed build (#2), 2 min 25 sec ago

3. Build History of Jenkins

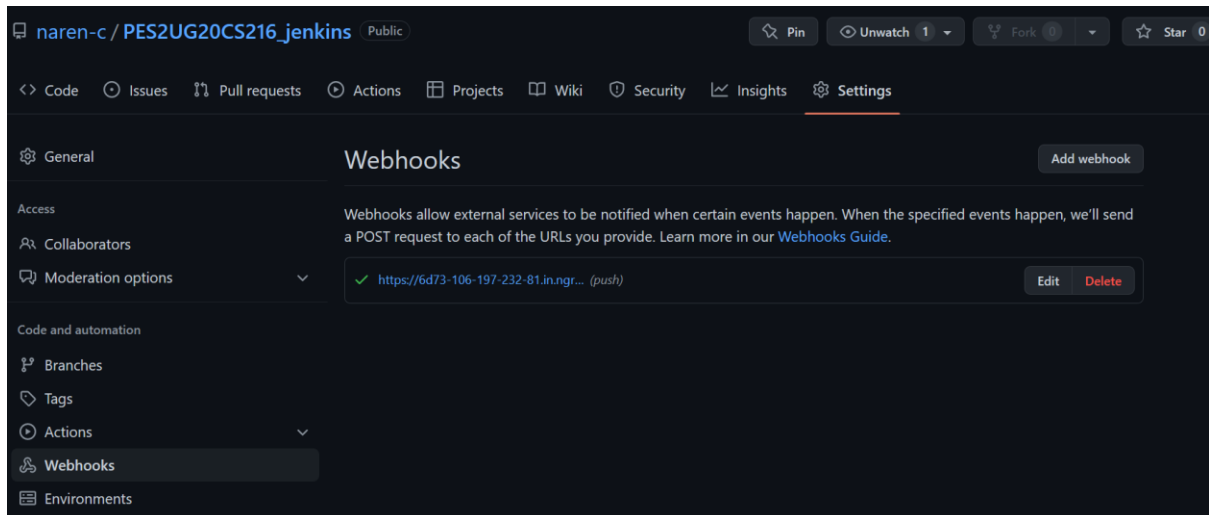**Build History of Jenkins**

	Feb 15	Feb 16	Feb 17	Feb 18	Feb 19

PES2UG20CS216-2 #1
PES2UG20CS216-1 #2
PES2UG20CS216-1 #1

Timeline © SIMILE

3hr   4hr   5hr   6hr   7hr

4. Jenkins Dashboard

Dashboard >

+ New Item
People
Build History
Manage Jenkins
My Views

Build Queue
No builds in the queue.

Build Executor Status

All +

Add description

S	W	Name ↓	Last Success	Last Failure	Last Duration	
⊘	☀	PES2UG20CS216-1	4 min 4 sec #2	N/A	1.3 sec	▷
⊘	☀	PES2UG20CS216-2	3 min 56 sec #1	N/A	64 ms	▷

Icon: S   M   L   Icon legend   🔊 Atom feed for all   🔊 Atom feed for failures   🔊 Atom feed for just latest builds
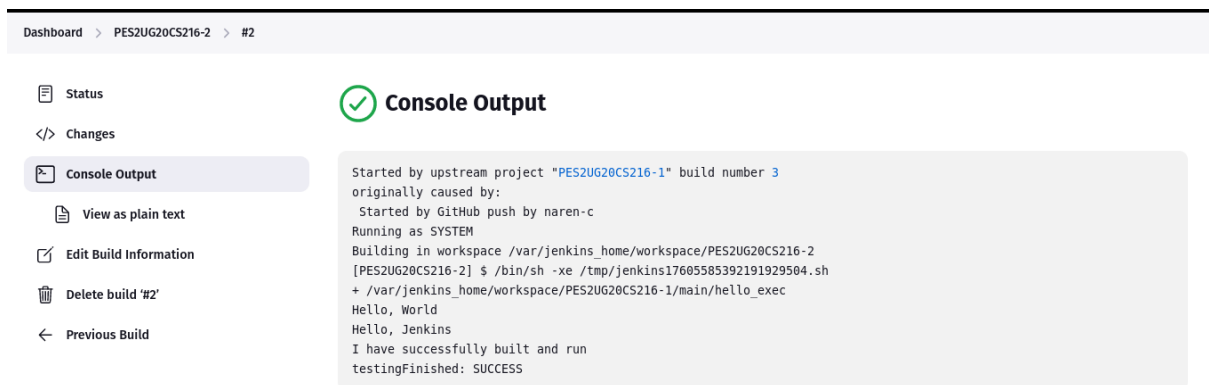
Task 4

1. Webhook added to your GitHub repository

2. Console Output of second job displaying the change made in hello.cpp file.

Task 5

1. Code/script written to create basic pipeline using GitHub repository

```
24 lines (24 sloc)    461 Bytes

1    pipeline {
2        agent any
3        stages {
4            stage('Build') {
5                steps {
6                    sh 'g++ -o PES2UG20CS216-1 hello.cpp'
7                    echo "Build Successful"
8                }
9            }
10           stage('Test') {
11               steps {
12                   sh './PES2UG20CS216-1'
13               }
14           }
15       }
16       post {
17           always {
18               echo 'Pipeline completed'
19           }
20           failure {
21               echo 'Pipeline failed'
22           }
23       }
24   }
```
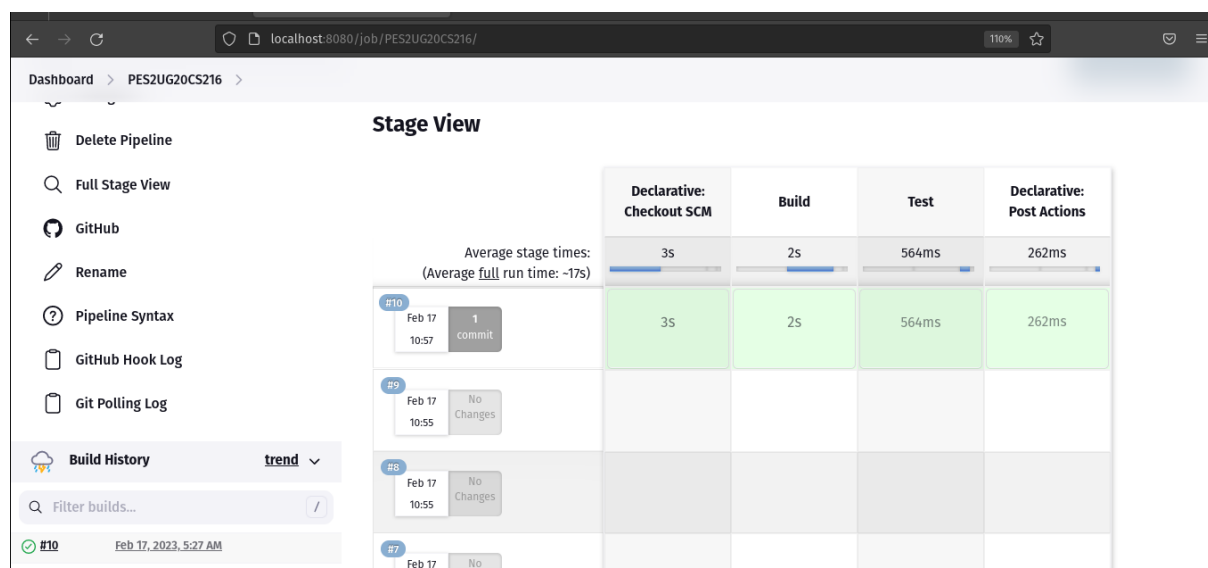
2. Output of working created pipeline, the screenshot should include
   ● Stage view / Execution status of pipeline with all stages succeeded
   ● Verify Declarative: Post Actions stage succeed for handling failures.

3. Console Output of the Pipeline

Now edit your Jenkinsfile, make an intentional error in one of the stages and commit. Execute the pipeline again, check if the expected stage fails and declarative post action "pipeline failed" carried out successfully

1. Output of working created pipeline, the screenshot should include
   - Stage view / Execution status of pipeline with all stages succeeded
   - Verify Declarative: Post Actions stage succeed for handling failures.

2. Console Output of the Pipeline
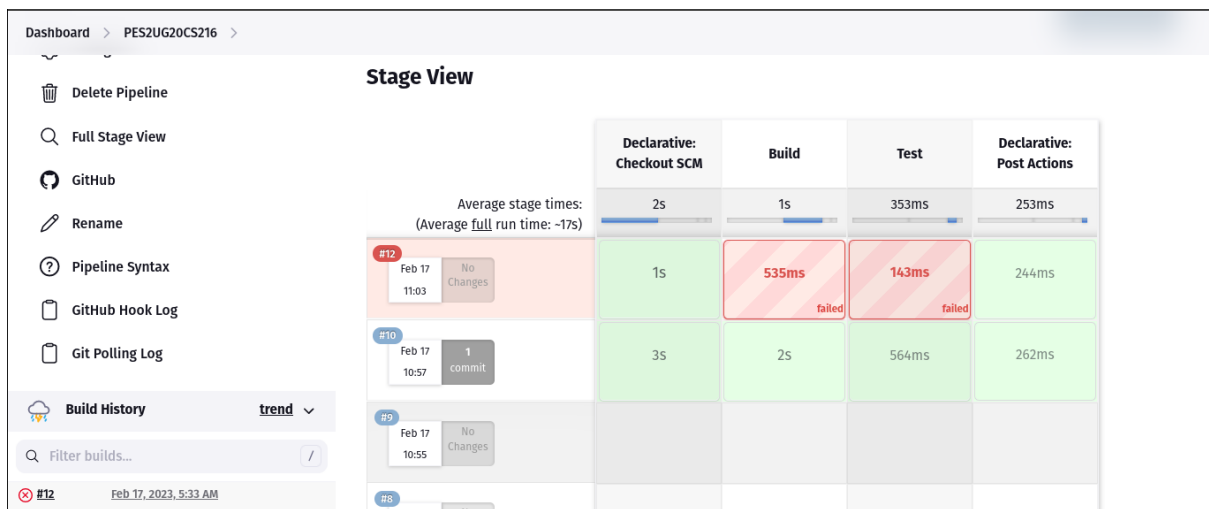
🗐 **Status**	⊗ **Console Output**
</> **Changes**	
⊳ **Console Output**	Started by user admin
🗐 View as plain text	Lightweight checkout support not available, falling back to full checkout.
🖉 **Edit Build Information**	Checking out git https://github.com/naren-c/PES2UG20CS216_jenkins into /var/jenkins_home/workspace/PES2UG20CS216@script/9467c7f1ed64eaf41b62fba93231e76103b4ea16bf4b0c5771783a6a422b6c52 to read Jenkinsfile
🗑 **Delete build '#12'**	The recommended git tool is: NONE
◆ **Git Build Data**	No credentials specified
⚙ **Restart from Stage**	> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES2UG20CS216@script/9467c7f1ed64eaf41b62fba93231e76103b4ea16bf4b0c5771783a6a422b6c52/.git # timeout=10
↪ **Replay**	Fetching changes from the remote Git repository
	> git config remote.origin.url https://github.com/naren-c/PES2UG20CS216_jenkins # timeout=10
	Fetching upstream changes from https://github.com/naren-c/PES2UG20CS216_jenkins
	> git --version # timeout=10
	> git --version # 'git version 2.30.2'

```
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline completed
[Pipeline] echo
Pipeline failed
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
ERROR: script returned exit code 1
Finished: FAILURE
```
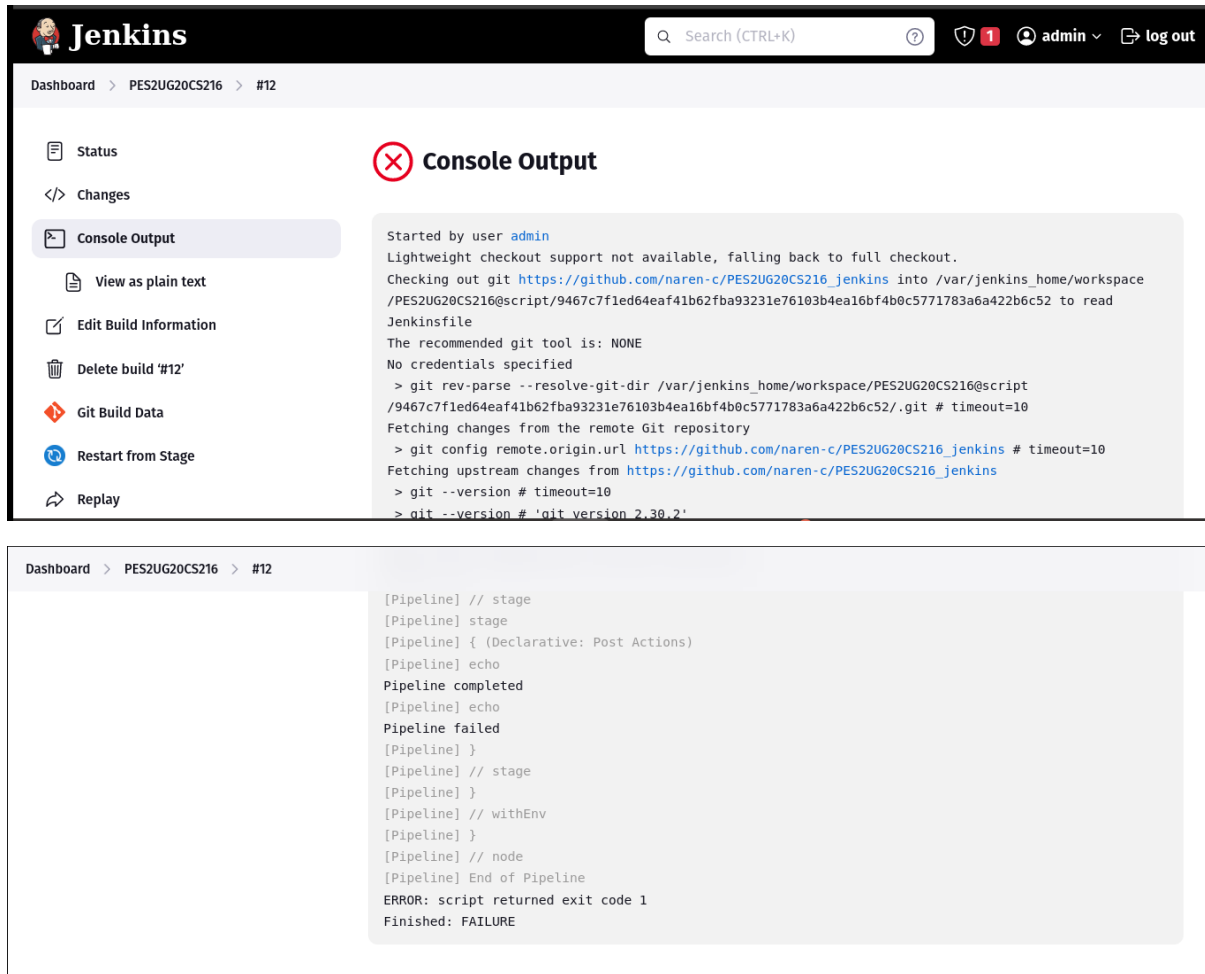
3. Link to the repository

naren-c/PES2UG20CS216_jenkins (github.com)