

## Cloud Computing Assignment 2

Name: Vishwa Mehul Mehta

SRN: PES2UG20CS389

Sec: F

Date: 16-02-2023

### Task 1:

1.

```
vishwa@Acer-Vishwa: /mnt/c/ X + v
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
2023-02-14 13:25:54.852+0000 [id=41] INFO jenkins.install.SetupWizard#init:

*****
*****
*****

Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

f8d19ec1187c4d5cb1b33681f7243f73

This may also be found at: /var/jenkins_home/secrets/initialAdminPassword

*****
*****
*****

2023-02-14 13:26:13.664+0000 [id=36] INFO jenkins.InitReactorRunner$1#onAttained: Completed initializati
on
2023-02-14 13:26:13.688+0000 [id=24] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and ru
nning
2023-02-14 13:26:14.591+0000 [id=58] INFO h.m.DownloadService$Downloadable#load: Obtained the updated da
ta file for hudson.tasks.Maven.MavenInstaller
2023-02-14 13:26:14.592+0000 [id=58] INFO hudson.util.Retrier#start: Performed the action check updates
server successfully at the attempt #1
_
```

### Task 2:

1.

CC Lab Assignment-2.pdf x Vishwa-Mehta/PES2UG20CS389-1 x PES2UG20CS389-1 #1 [Jenkins] x +

localhost:8080/job/PES2UG20CS389-1/1/

# Jenkins

Search (CTRL+K) 1 Vishwa Mehul Mehta log out

Dashboard > PES2UG20CS389-1 > #1

Status


</> Changes

Console Output

Edit Build Information


Delete build '#1'


Git Build Data


 **Build #1 (14-Feb-2023, 5:55:00 PM)**

Started 33 sec ago  
Took **31 sec**

Add description

 No changes.

 Started by user [Vishwa Mehul Mehta](#)

 **Revision:** 14964f7716bdd6e1f34c59dac7650d2369dbb480  
**Repository:** [https://github.com/Vishwa-Mehta/PES2UG20CS389\\_Jenkins.git](https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git)

- origin/main

Keep this build forever

REST API Jenkins 2.375.3

2.

CC Lab Assignment-2.pdf x Vishwa-Mehta/PES2UG20CS389-1 x PES2UG20CS389-1 #1 Console [x] +

localhost:8080/job/PES2UG20CS389-1/1/console

# Console Output

Status

</> Changes

Console Output

View as plain text

Edit Build Information

Delete build '#1'

Git Build Data

Started by user [Vishwa Mehul Mehta](#)

Running as SYSTEM

Building in workspace /var/jenkins\_home/workspace/PES2UG20CS389-1

The recommended git tool is: NONE

No credentials specified

> git rev-parse --resolve-git-dir /var/jenkins\_home/workspace/PES2UG20CS389-1/.git # timeout=10

Fetching changes from the remote Git repository

> git config remote.origin.url https://github.com/Vishwa-Mehta/PES2UG20CS389\_Jenkins.git # timeout=10

Fetching upstream changes from https://github.com/Vishwa-Mehta/PES2UG20CS389\_Jenkins.git

> git --version # timeout=10

> git --version # 'git version 2.30.2'

> git fetch --tags --force --progress -- https://github.com/Vishwa-Mehta/PES2UG20CS389\_Jenkins.git +refs/heads/\*:refs/remotes/origin/\* # timeout=10

Seen branch in repository origin/main

Seen 1 remote branch

> git show-ref --tags -d # timeout=10

Checking out Revision 14964f7716bdd6e1f34c59dac7650d2369dbb480 (origin/main)

> git config core.sparsecheckout # timeout=10

> git checkout -f 14964f7716bdd6e1f34c59dac7650d2369dbb480 # timeout=10

Commit message: "init commit"

First time build. Skipping changelog.

[PES2UG20CS389-1] \$ /bin/sh -xe /tmp/jenkins269503071765197882.sh

+ cd Jenkins\_lab-main

+ make -C main

make: Entering directory '/var/jenkins\_home/workspace/PES2UG20CS389-1/Jenkins\_lab-main/main'

g++ hello.cpp -o hello\_exec

make: Leaving directory '/var/jenkins\_home/workspace/PES2UG20CS389-1/Jenkins\_lab-main/main'

Finished: SUCCESS

## Task 3:

1.

CC Lab Assignment-2.pdf x Vishwa-Mehta/PES2UG20CS389-2 #2 Console | x +

localhost:8080/view/all/job/PES2UG20CS389-2/2/console

Jenkins

Search (CTRL+K) 1 Vishwa Mehl Mehta log out

Dashboard > All > PES2UG20CS389-2 > #2

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#2'

Console Output

Started by upstream project "PES2UG20CS389-1" build number 3  
originally caused by:  
Started by user Vishwa Mehl Mehta  
Running as SYSTEM  
Building in workspace /var/jenkins\_home/workspace/PES2UG20CS389-2  
[PES2UG20CS389-2] \$ /bin/sh -xe /tmp/jenkins11496695603289700423.sh  
+ /var/jenkins\_home/workspace/PES2UG20CS389-1/Jenkins\_lab-main/main/hello\_exec  
Hello, World  
Hello, Jenkins  
I have successfully built and run  
SRN: PES2UG20CS389  
Finished: SUCCESS

REST API Jenkins 2.375.3

2.

CC Lab Assignment-2.pdf x Vishwa-Mehta/PES2UG20CS389-1 [Jenkins] x +

localhost:8080/view/all/job/PES2UG20CS389-1/

Dashboard > All > PES2UG20CS389-1 >

Build Now

Configure

Delete Project

Git Polling Log

GitHub

Rename

Downstream Projects

PES2UG20CS389-2

Permalinks

- Last build (#3), 1 min 40 sec ago
- Last stable build (#3), 1 min 40 sec ago
- Last successful build (#3), 1 min 40 sec ago
- Last completed build (#3), 1 min 40 sec ago

Build History trend

Filter builds...

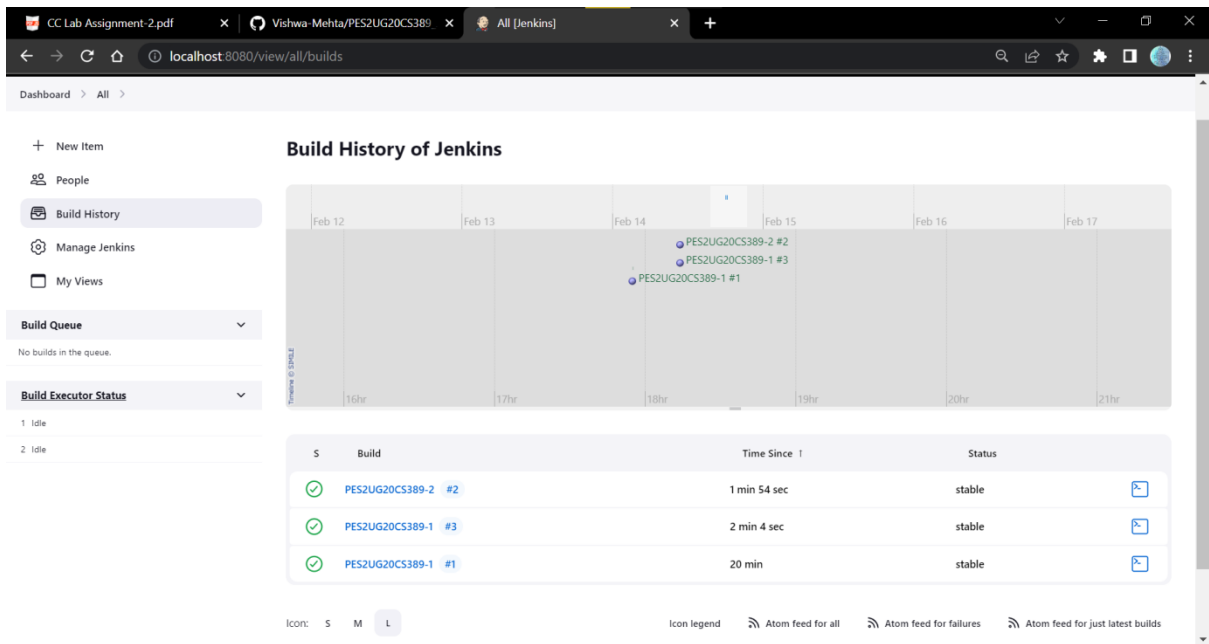
#3 14-Feb-2023\_6:13 PM

#1 14-Feb-2023\_5:55 PM

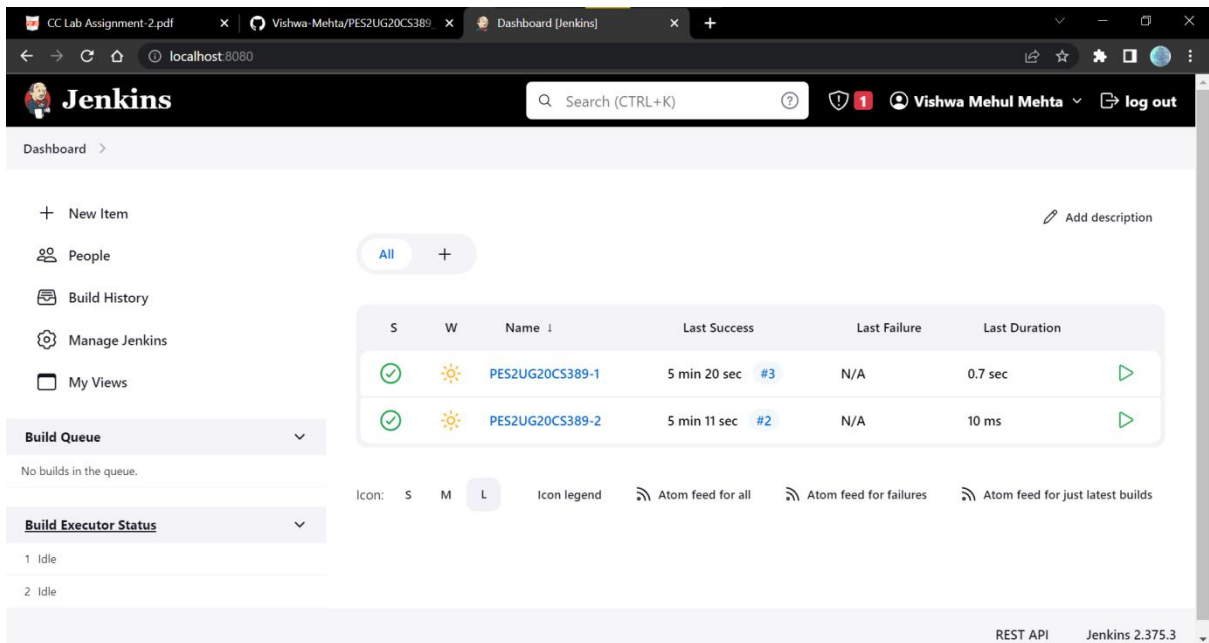
Atom feed for all Atom feed for failures

REST API Jenkins 2.375.3

3.

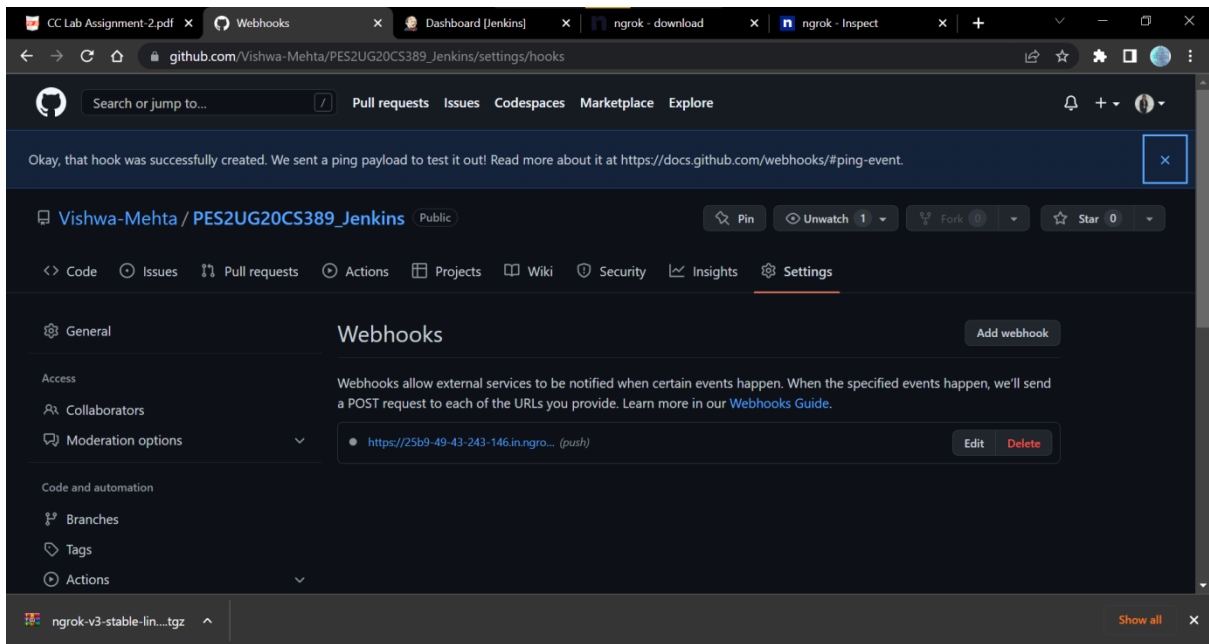


4.

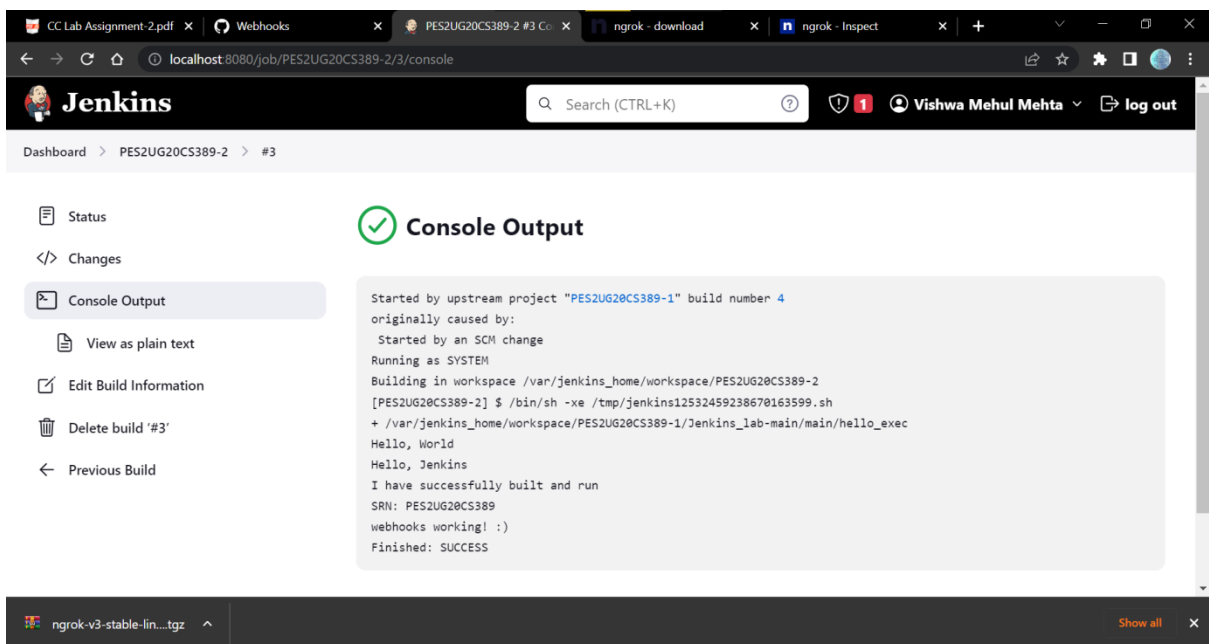


## Task 4:

1.



2.



## Task 5:

1.

```
1 pipeline {
2   agent any
3   stages {
4     stage('Build') {
5       steps {
6         echo 'Building...'
7         sh 'g++ -o PES2UG20CS389-1 Jenkins_lab-main/task5.cpp'
8         echo 'Building successful'
9       }
10    }
11    stage('Test') {
12      steps {
13        echo 'Testing...'
14        sh './PES2UG20CS389-1'
15        echo 'Testing successful'
16      }
17    }
18    stage('Deploy') {
19      steps {
20        echo 'Deploy successful'
21      }
22    }
23  }
24  post {
25    failure {
26      echo 'Pipeline failed'
27    }
28  }
29 }
```

2.

Successful Build:

**Pipeline PES2UG20CS389**

Stage View

	Declarative: Checkout SCM	Build	Test	Deploy
Average stage times: (Average full run time: ~3s)	1s	587ms	333ms	46ms
#3 Feb 16 21:01 1 commit	1s	587ms	333ms	46ms

Permalinks

- Last build (#3), 3 min 22 sec ago
- Last stable build (#3), 3 min 22 sec ago
- Last successful build (#3), 3 min 22 sec ago
- Last completed build (#3), 3 min 22 sec ago

Build History

Build	Time
#3	16-Feb-2023 3:31 PM
#1	14-Feb-2023 7:00 PM

Failed Build:

Pipeline PES2UG20CS389

Stage View

	Declarative: Checkout SCM	Build	Test	Deploy	Declarative: Post Actions
Average stage times: (Average full run time: ~3s)	1s	345ms	183ms	43ms	60ms
#4 Feb 16 21:11 1 commit	1s	103ms	33ms	40ms	60ms
#3 Feb 16 21:01 1 commit	1s	587ms	333ms	46ms	

Permalinks

- Last build (#3), 10 min ago
- Last stable build (#3), 10 min ago

3.

## Successful Build:

Console Output

```

Started by user Vishwa Mehul Mehta
Lightweight checkout support not available, falling back to full checkout.
Checking out git https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git into
/var/jenkins_home/workspace/PES2UG20CS389@script/4906abf30c4650affe12e0fec25076ce5ae98988b9dad1464d414c73ce78374
to read Jenkins_lab-main/Jenkinsfile
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir
/var/jenkins_home/workspace/PES2UG20CS389@script/4906abf30c4650affe12e0fec25076ce5ae98988b9dad1464d414c73ce78374
/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git # timeout=10
Fetching upstream changes from https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git
> git --version # timeout=10
> git --version # 'git version 2.30.2'
> git fetch --tags --force --progress -- https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git
+refs/heads/*:refs/remotes/origin/* # timeout=10

```

```
Dashboard > PES2UG20CS389 > #3

Building...
[Pipeline] sh
+ g++ -o PES2UG20CS389-1 Jenkins_lab-main/task5.cpp
[Pipeline] echo
Building successful
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] echo
Testing...
[Pipeline] sh
+ ./PES2UG20CS389-1
Welcome to task 5.
Hello PES2UG20CS389!
Task 5 completed :)
[Pipeline] echo
Testing successful
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deploy successful
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

## Failed Build:

Jenkins

Search (CTRL+K)

Dashboard > PES2UG20CS389 > #4

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#4'

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

**Console Output**

```
Started by user Vishwa Mehul Mehta
Lightweight checkout support not available, falling back to full checkout.
Checking out git https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git into
/var/jenkins_home/workspace/PES2UG20CS389@script/4906abf30c4650aff12e0efec25076ce5ae98988b9dad1464d414c73ce78374 to read Jenkins_lab-main/Jenkinsfile
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES2UG20CS389@script/4906abf30c4650aff12e0efec25076ce5ae98988b9dad1464d414c73ce78374/.git #
timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git # timeout=10
Fetching upstream changes from https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git
> git --version # timeout=10
> git --version # 'git version 2.30.2'
> git fetch --tags --progress -- https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/main
Seen 1 remote branch
> git show-ref --tags -d # timeout=10
Checking out Revision 6be9b6a994f08bf33549d44281d532c06f028499 (origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 6be9b6a994f08bf33549d44281d532c06f028499 # timeout=10
Commit message: "error added"
> git rev-list --no-walk d56ada6f5c35200934248f4d46cb3c72286a3ebb # timeout=10
[Pipeline] Start of Pipeline
[Pipeline] node
```



```
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Building...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
Stage "Test" skipped due to earlier failure(s)
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
Stage "Deploy" skipped due to earlier failure(s)
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline failed
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
java.lang.NoSuchMethodError: No such DSL method 's' found among steps [archive, bat, build, catchError, checkout, deleteDir, dir, echo, emailx,
emailxrecipients, envVarsForTool, error, fileExists, findBuildScans, getContext, git, input, isUnix, junit, library, libraryResource, load, mail,
milestone, node, parallel, powershell, properties, publishChecks, pwd, push, readFile, readTrusted, resolveScm, retry, script, sh, sleep, stage, stash,
step, timeout, timestamps, tm, tool, unarchive, unstable, unstash, validateDeclarativePipeline, waitUntil, warnError, withChecks, withContext,
withCredentials, withEnv, withGradle, wrap, writeFile, ws] or symbols [GitUsernamePassword, agent, all, allBranchesSame, allOf, always, ant, antFromApache,
```

4.

GitHub Link:

[https://github.com/Vishwa-Mehta/PES2UG20CS389\\_Jenkins](https://github.com/Vishwa-Mehta/PES2UG20CS389_Jenkins)