

UE22CS351B CLOUD COMPUTING LABORATORY 8

NAME : ARNAV SATISH

SRN : PES1UG22CS107

SECTION : B

TASK 1:

```
● ● ● Dockerfile — docker run -p 8080:8080 -p 50000:50000 -it jenkins:PES1...

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

62595f6669414ac29e1ad5d92ebdc6c8

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

*****
*****
*****
2025-03-18 04:02:24.069+0000 [id=41]      INFO    jenkins.InitReactorRunner$1#onAt
tained: Completed initialization
2025-03-18 04:02:24.079+0000 [id=25]      INFO    hudson.lifecycle.Lifecycle#onRea
dy: Jenkins is fully up and running
2025-03-18 04:02:26.021+0000 [id=60]      INFO    h.m.DownloadService$Downloadable
#load: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
2025-03-18 04:02:26.021+0000 [id=60]      INFO    hudson.util.Retriger#start: Perfo
```

TASK 2:

Dashboard > PES1UG22CS107-1 > #1 > Console Output

Console Output

Started by user admin
 Running as SYSTEM
 Building in workspace /var/jenkins_home/workspace/PES1UG22CS107-1
 The recommended git tool is: NONE
 No credentials specified
 Cloning the remote Git repository
 Cloning repository https://github.com/arnav-satish/PES1UG22CS107_Jenkins.git
 > git init /var/jenkins_home/workspace/PES1UG22CS107-1 # timeout=10
 Fetching upstream changes from https://github.com/arnav-satish/PES1UG22CS107_Jenkins.git
 > git --version # timeout=10
 > git --version # 'git version 2.39.5'
 > git fetch --tags --force --progress -- https://github.com/arnav-satish/PES1UG22CS107_Jenkins.git
 +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/arnav-satish/PES1UG22CS107_Jenkins.git # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
 Avoid second fetch
 Seen branch in repository origin/main
 Seen 1 remote branch
 > git show-ref --tags -d # timeout=10
 Checking out Revision 22c505400eec850721514dcf2da6ad253443451f (origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 22c505400eec850721514dcf2da6ad253443451f # timeout=10
 Commit message: "Add files via upload"
 First time build. Skipping changelog.
 [PES1UG22CS107-1] \$ /bin/sh -xe /tmp/jenkins4156765800296254729.sh
 + make -C main
 make: Entering directory '/var/jenkins_home/workspace/PES1UG22CS107-1/main'
 g++ hello.cpp -o hello_exec
 make: Leaving directory '/var/jenkins_home/workspace/PES1UG22CS107-1/main'
 Finished: SUCCESS

Jenkins

Dashboard > All > Build History

+ New Item

Build History

Manage Jenkins

My Views

Build History of Jenkins

S	Build	Time Since ↑	Status
	PES1UG22CS107-1 #1	1 min 22 sec	stable

Build Queue

No builds in the queue.

Build Executor Status

Icon: S M L

TASK 3:

Started by upstream project "PES1UG22CS107-1" build number 3
 originally caused by:
 Started by user admin
 Running as SYSTEM
 Building in workspace /var/jenkins_home/workspace/PES1UG22CS107-2
 [PES1UG22CS107-2] \$ /bin/sh -xe /tmp/jenkins1054246534803874881.sh
 + cd /var/jenkins_home/workspace/PES1UG22CS107-1/main/
 + ./hello_exec
 Hello, World
 Hello, Jenkins
 I have successfully built and run this
 Finished: SUCCESS

Dashboard > PES1UG22CS107-1 >

Status
PES1UG22CS107-1
Add description

- [Changes](#)
- [Workspace](#)
- [Build Now](#)
- [Configure](#)
- [Delete Project](#)
- [GitHub Hook Log](#)
- [Git Polling Log](#)
- [GitHub](#)
- [Rename](#)

Builds

Filter	...
Today	▼
#3 04:28	▼
#2 04:23	▼
#1 04:16	▼

Build History of Jenkins

S	Build	Time Since ↑	Status	
✓	PES1UG22CS107-2 #2	1 min 36 sec	back to normal	
✓	PES1UG22CS107-1 #3	1 min 46 sec	stable	

TASK 4:

arnav-satish / PES1UG22CS107_Jenkins

Type ⌘ to search

- [Code](#)
- [Issues](#)
- [Pull requests](#)
- [Actions](#)
- [Projects](#)
- [Wiki](#)
- [Security](#)
- [Insights](#)
- [Settings](#)

General

Webhooks

Add webhook

Access

Collaborators

Moderation options

Code and automation

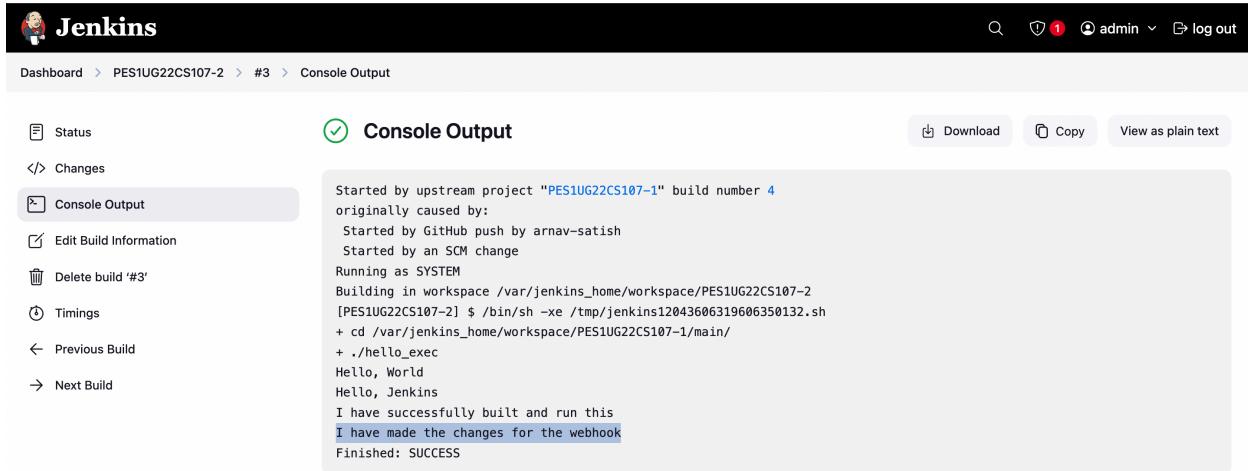
Branches

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓ http://bore.smuz.me:30948/github... (push)

Last delivery was successful.

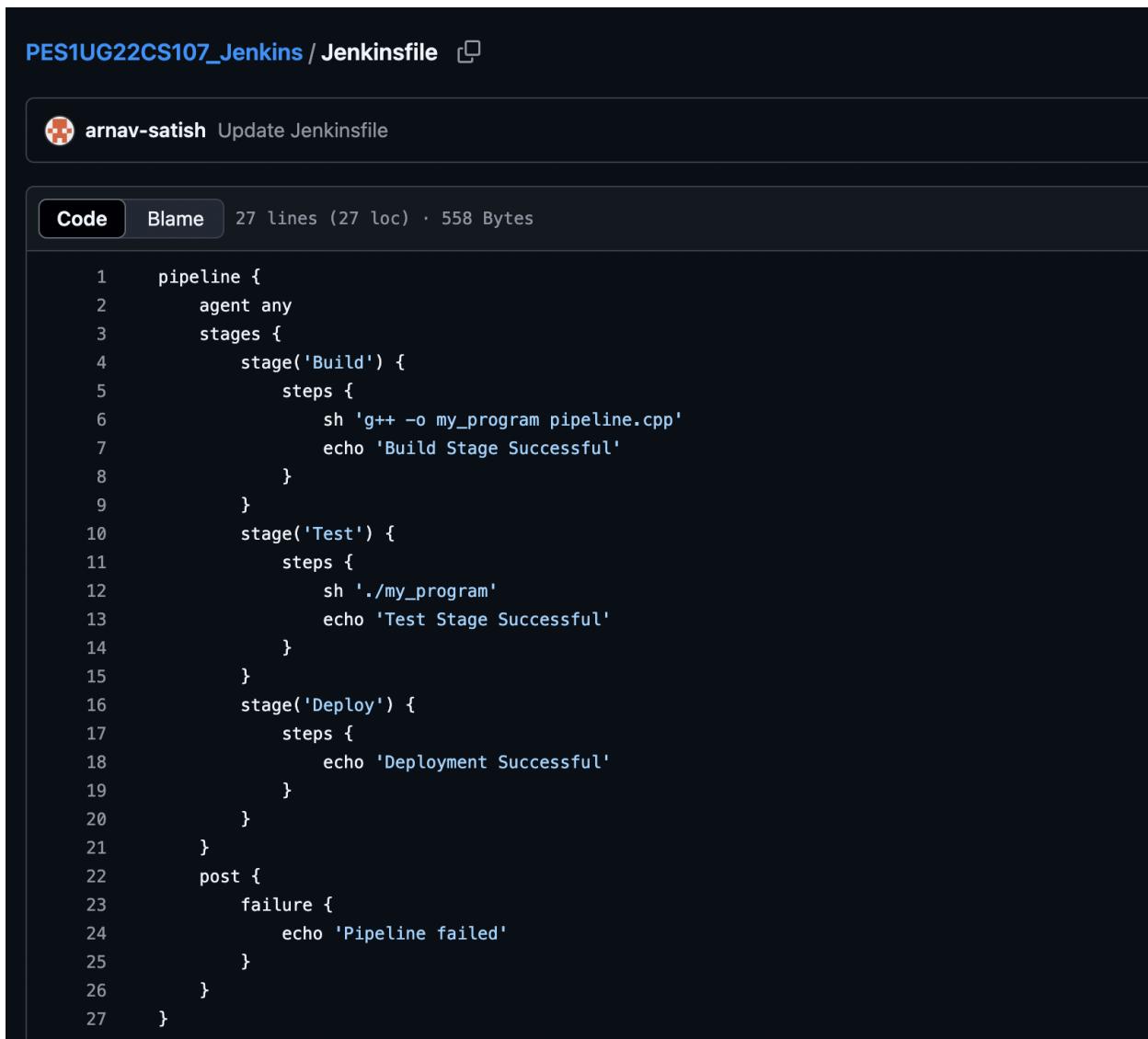
Edit Delete



The screenshot shows the Jenkins interface for a build. On the left, there's a sidebar with links: Status, Changes, Console Output (which is selected and highlighted in grey), Edit Build Information, Delete build '#3', Timings, Previous Build, and Next Build. The main area is titled 'Console Output' with a green checkmark icon. It displays the build log:

```
Started by upstream project "PES1UG22CS107-1" build number 4
originally caused by:
Started by GitHub push by arnav-satish
Started by an SCM change
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES1UG22CS107-2
[PES1UG22CS107-2] $ /bin/sh -xe /tmp/jenkins120436006319606350132.sh
+ cd /var/jenkins_home/workspace/PES1UG22CS107-1/main/
+ ./hello_exec
Hello, World
Hello, Jenkins
I have successfully built and run this
I have made the changes for the webhook
Finished: SUCCESS
```

TASK 5:



The screenshot shows a GitHub pull request for the file 'Jenkinsfile'. At the top, it says 'PES1UG22CS107_Jenkins / Jenkinsfile' with a copy icon. Below that is the author's profile picture and name 'arnav-satish Update Jenkinsfile'. There are two tabs: 'Code' (selected) and 'Blame'. The code block contains the Jenkins pipeline script:

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

 Jenkins

Dashboard > PES1UG22CS107 >

Status  PES1UG22CS107  Add description

</> Changes 

▷ Build Now 

⚙ Configure 

Delete Pipeline 

Full Stage View 

Stages 

Rename 

Pipeline Syntax 

Builds 

Filter 

Today

- ⌚ #3 05:43
- ⌚ #2 05:28
- ⌚ #1 05:09

Permalinks

- Last build (#2), 15 min ago
- Last stable build (#2), 15 min ago
- Last successful build (#2), 15 min ago
- Last completed build (#2), 15 min ago

Stage View

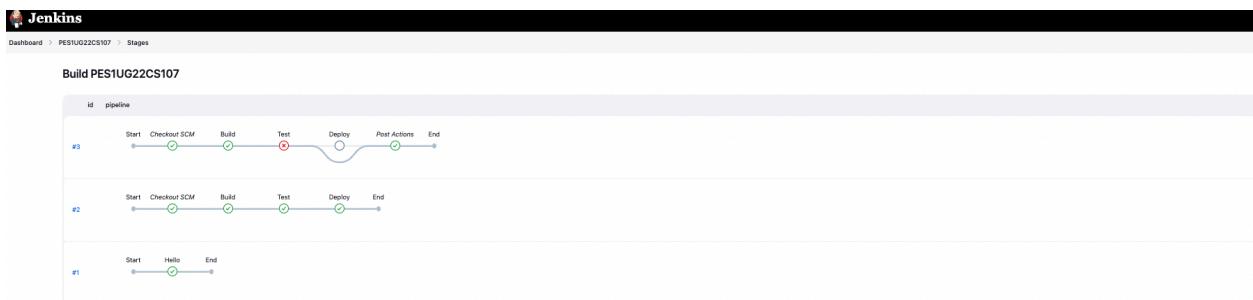


Console Output

```

Started by user sabin
Lightweight checkout support not available, falling back to full checkout.
Checking out git https://github.com/arunv-satish/PES1UG22CS107\_Jenkins.git into /var/jenkins_home/workspace/PES1UG22CS107@script:/tmp/09read74cf508e736cc3c8a1ba9174c1dc9177fc483a#778759edfddc to read Jenkinsfile
The recommended tool is: NONE
No credentials specified
Closing the remote Git repository
Closing repository https://github.com/arunv-satish/PES1UG22CS107\_Jenkins.git
> git clone --progress --depth=100 --branch=main https://github.com/arunv-satish/PES1UG22CS107_Jenkins.git # timeout=10
Fetching upstream changes free https://github.com/arunv-satish/PES1UG22CS107\_Jenkins.git
git -v --version # timeout=10
> git version # timeout=10
git version 2.38.5
> git fetch --tags --progress --depth=100 --branch=main https://github.com/arunv-satish/PES1UG22CS107_Jenkins.git # timeout=10
> git config remote.origin.url https://github.com/arunv-satish/PES1UG22CS107\_Jenkins.git # timeout=10
> git config remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Fetching upstream changes free https://github.com/arunv-satish/PES1UG22CS107\_Jenkins.git
> git -v --version # timeout=10
git version 2.38.5
> git fetch --tags --progress --depth=100 --branch=main https://github.com/arunv-satish/PES1UG22CS107_Jenkins.git # timeout=10
> git config remote.origin.url https://github.com/arunv-satish/PES1UG22CS107\_Jenkins.git # timeout=10
> git config remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
Seen branch in repository origin/main
Seen 1 remote branch.
> git rev-parse --abbrev-ref HEAD # timeout=10
Checking out Revision 4bbed0284f263943b3a19dddb8d8e5c2896ec0ff (origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -b PES1UG22CS107@#2 4bbed0284f263943b3a19dddb8d8e5c2896ec0ff # timeout=10
Commit message: "Update Jenkinsfile"
> [Pipeline]
> [Pipeline] // stage
> [Pipeline] withEnv
> [Pipeline] {
> [Pipeline] // {
> [Pipeline] // Build
> [Pipeline] sh
>   + g++ -o my_program pipeline.cpp
> [Pipeline] 
Build Stage Successful
[Pipeline] 
[Pipeline] // stage
[Pipeline] // stage
[Pipeline] // Test
[Pipeline] // Deploy
[Pipeline] echo
Deployment Successful
[Pipeline] 
[Pipeline] // stage
[Pipeline] // stage
[Pipeline] // withEnv
[Pipeline] {
[Pipeline] // mode
[Pipeline] // End of Pipeline
[Pipeline] 
Finished: SUCCESS

```



https://github.com/arnav-satish/PES1UG22CS107_Jenkins