

## CC LAB -6

NAME : SUSHMA V

SRN : PES1UG23CS621

SECTION : K

Prerequisite :

```
sushmav@PES1UG23CS621:~/end-to-end-cicd-Jenkins-docker... 
sushmav@PES1UG23CS621:~$ docker --version
docker ps
Docker version 29.2.1, build a5c7197
CONTAINER ID   IMAGE      COMMAND   CREATED    STATUS     PORTS      NAMES
sushmav@PES1UG23CS621:~$ git --version
git version 2.34.1
sushmav@PES1UG23CS621:~$ docker pull jenkins/jenkins:lts
lts: Pulling from jenkins/jenkins
f703dc66a915: Pull complete
53c88f1dfcb7: Pull complete
a2375046a225: Pull complete
1354b1aa1de9: Pull complete
0c31487ae971: Pull complete
3c9c60b56010: Pull complete
5681e84d3308: Pull complete
967448ab02b6: Pull complete
7eb8b3c92c00: Pull complete
24446a3ce816: Pull complete
f63b11f22c5e: Pull complete
650135881854: Pull complete
9b156237551b: Download complete
Digest: sha256:23b84d1066dbe69f2c17288c83ac071127092d726f14b3b80444d868468619c7
Status: Downloaded newer image for jenkins/jenkins:lts
docker.io/jenkins/jenkins:lts
```

```
sushmav@PES1UG23CS621:~/end-to-end-cicd-Jenkins-docker...
sushmav@PES1UG23CS621:~$ docker run -d \
--name jenkins \
-p 8080:8080 \
-p 50000:50000 \
-v jenkins_home:/var/jenkins_home \
-v /var/run/docker.sock:/var/run/docker.sock \
--user root \
jenkins/jenkins:lts
630a7f3d185282aaf9c4b9ce35dbfb2bd84740ace99f978db4eb6c0d3cb33369
sushmav@PES1UG23CS621:~$ docker ps
CONTAINER ID   IMAGE      COMMAND   CREATED    STATUS     PORTS      NAMES
630a7f3d1852   jenkins/jenkins:lts   "/usr/bin/tini -- /u..."   14 seconds ago   U
p 12 seconds   0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp, 0.0.0.0:50000->50000
/tcp, [::]:50000->50000/tcp   jenkins
sushmav@PES1UG23CS621:~$ http://localhost:8080
bash: http://localhost:8080: No such file or directory
sushmav@PES1UG23CS621:~$ docker exec jenkins cat /var/jenkins_home/secrets/initi
alAdminPassword
86ddae47ada54e6d85e1ccf6fc2c0246
sushmav@PES1UG23CS621:~$ cd ~
sushmav@PES1UG23CS621:~$ git clone https://github.com/sushmav418-jpg/end-to-end-
ci-cd-on-docker
```

```
sushmav@PES1UG23CS621: ~/end-to-end-cicd-jenkins-docker... 
Cloning into 'end-to-end-cicd-jenkins-docker-nginx'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
sushmav@PES1UG23CS621:~$ cd end-to-end-cicd-jenkins-docker-nginx.git
bash: cd: end-to-end-cicd-jenkins-docker-nginx.git: No such file or directory
sushmav@PES1UG23CS621:~$ cd end-to-end-cicd-jenkins-docker-nginx
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ ls
README.md
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ mkdir backend nginx
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ touch backend/Dockerfile
touch backend/app.cpp
touch nginx/default.conf
touch Jenkinsfile
touch README.md
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ tree
Command 'tree' not found, but can be installed with:
sudo snap install tree # version 2.1.3+pkg-5852, or
sudo apt install tree # version 2.0.2-1
See 'snap info tree' for additional versions.
```

```
sushmav@PES1UG23CS621: ~/end-to-end-cicd-jenkins-docker... 
Setting up tree (2.0.2-1) ...
Processing triggers for man-db (2.10.2-1) ...
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ tree
.
├── backend
│   ├── app.cpp
│   └── Dockerfile
└── Jenkinsfile
└── nginx
    └── default.conf
└── README.md

2 directories, 5 files
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ nano backend/app.cpp
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ 
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ nano backend/app.cpp
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ nano backend/Dockerfile
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ nano nginx/default.conf
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ nano Jenkinsfile
sushmav@PES1UG23CS621:~/end-to-end-cicd-jenkins-docker-nginx$ git status
```

```
sushmav@PES1UG23CS621:~/end-to-end-cicd-Jenkins-docker... Q E - □ ×
create mode 100644 backend/app.cpp
create mode 100644 nginx/default.conf
sushmav@PES1UG23CS621:~/end-to-end-cicd-Jenkins-docker-nginx$ git push origin main
Username for 'https://github.com': sushmav418-jpg
Password for 'https://sushmav418-jpg@github.com':
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/sushmav418-jpg/end-to-end-cicd-Jenkins-docker-nginx.git/'
sushmav@PES1UG23CS621:~/end-to-end-cicd-Jenkins-docker-nginx$ git push origin main
Username for 'https://github.com': sushmav418-jpg
Password for 'https://sushmav418-jpg@github.com':
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/sushmav418-jpg/end-to-end-cicd-Jenkins-docker-nginx.git/'
sushmav@PES1UG23CS621:~/end-to-end-cicd-Jenkins-docker-nginx$ git push origin main
Username for 'https://github.com': sushmav418-jpg
Password for 'https://sushmav418-jpg@github.com':
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
...
```

```
sushmav@PES1UG23CS621:~$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
NAMES
630a7f3d1852        jenkins/jenkins:lts   "/usr/bin/tini -- /u..."   3 hours ago       Exited (143) 2 hours ago
jenkins
206a86186614        gcr.io/k8s-minikube/kicbase:v0.0.49   "/usr/local/bin/entr..."   7 days ago        Exited (255) 3 hours ago
days ago            127.0.0.1:32768->22/tcp, 127.0.0.1:32769->2376/tcp, 127.0.0.1:32770->5000/tcp, 127.0.0.1:32771->8443/tcp, 127.0.0.1:32772->32443/tcp   minikube
7e1263486b33        hello-world          "/hello"           7 days ago       Exited (0) 7 days ago
jenkins
af8aa4158f0f        hello-world          "/hello"           13 days ago      Exited (0) 13 days ago
nostalgic_golick
3122073cbf2a        hello-world          "/hello"           2 weeks ago     Exited (0) 2 weeks ago

```

```
de          naughty_jemison
jenkins
sushmav@PES1UG23CS621:~$ docker exec jenkins cat /var/jenkins_home/secrets/initi
alAdminPassword
86ddae47ada54e6d85e1ccf6fc2c0246
sushmav@PES1UG23CS621:~$
```

### Getting Started

Username  
PES1UG23CS621

Password  
.....

Confirm password  
.....

Full name  
PES1UG23CS621

E-mail address  
sushmav418@gmail.com

Jenkins 2.541.2 [Skip and continue as admin](#) [Save and Continue](#)

The screenshot shows the Jenkins dashboard at [localhost:8080](http://localhost:8080). The left sidebar includes links for 'New Item', 'Build History', 'Build Queue' (which shows 'No builds in the queue.'), and 'Build Executor Status' (which shows '0/2'). The main content area features a 'Welcome to Jenkins!' message, a 'Start building your software project' button, and a 'Set up a distributed build' section with links for 'Set up an agent', 'Configure a cloud', and 'Learn more about distributed builds'. The bottom right corner displays 'REST API' and 'Jenkins 2.541.2'.

**Git** ?

**Repositories** ?

**Repository URL** ?

`https://github.com/sushmav418-jpg/end-to-end-cicd-jenkins-docker-nginx.git`

**Credentials** ?

- none -

+ Add

Advanced ▾

+ Add Repository

**Branches to build** ?

**Branch Specifier (blank for 'any')** ?

---

Jenkins / PES1UG23C5621-backend... / Configure

**Configure**

**General**

Enabled

**Source Code Management**

**Triggers**

**Environment**

**Build Steps**

**Post-build Actions**

Description

Plain text [Preview](#)

Discard old builds ?

GitHub project

This project is parameterized ?

Throttle builds ?

Execute concurrent builds if necessary ?

Advanced ▾

Save Apply

Build after other projects are built ?

Build periodically ?

GitHub hook trigger for GITScm polling ?

Poll SCM ?

Schedule ?

```
https://github.com/sushmav418-jpg/end-to-end-cicd-jenkins-docker-nginx.git
```

**!** Invalid input: "https://github.com/sushmav418-jpg/end-to-end-cicd-jenkins-docker-nginx.git": line 1:0: token recognition error at: 'ht'  
[\(show details\)](#)

Ignore post-commit hooks ?

## Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

## Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

⋮ Execute shell ? ×

Command

See [the list of available environment variables](#)

```
cd CC_LAB-6
docker build -t backend app backend
```

Advanced ▾

+ Add build step

Jenkins / PES1UG23CS621 / My Views / All / PES1UG23CS621-backend... Add description

Status Changes Workspace Build Now Configure Delete Project Rename

**PES1UG23CS621-backend-build**

**Permalinks**

Builds > ...

No builds

REST API Jenkins 2.541.2

This screenshot shows the Jenkins interface for the 'PES1UG23CS621-backend-build' project. The left sidebar contains links for Status, Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main content area is titled 'PES1UG23CS621-backend-build' and 'Permalinks'. A large box labeled 'Builds >' shows the message 'No builds'.

Jenkins / PES1UG23CS621 / My Views / All / PES1UG23CS621-backend... Add description

Status Changes Workspace Build Now Configure Delete Project Rename

**PES1UG23CS621-backend-build**

**Permalinks**

Builds > ...

Today #1 7:23 AM

REST API Jenkins 2.541.2

This screenshot shows the Jenkins interface for the 'PES1UG23CS621-backend-build' project. The 'Build Now' link is highlighted. The 'Builds >' section shows a single entry: '#1 7:23 AM' with a red circle icon.

Jenkins / PES1UG23CS621 / My Views / All / PES1UG23CS621-backend... Add description

Status Changes Workspace Build Now Configure Delete Project Rename

**PES1UG23CS621-backend-build**

**Permalinks**

- Last build (#2), 40 sec ago
- Last stable build (#2), 40 sec ago
- Last successful build (#2), 40 sec ago
- Last failed build (#1), 2 min 31 sec ago
- Last unsuccessful build (#1), 2 min 31 sec ago
- Last completed build (#2), 40 sec ago

Builds > ...

Filter

Today #2 7:25 AM #1 7:23 AM

REST API Jenkins 2.541.2

This screenshot shows the Jenkins interface for the 'PES1UG23CS621-backend-build' project. The 'Configure' link is highlighted. The 'Builds >' section shows two entries: '#2 7:25 AM' with a green circle icon and '#1 7:23 AM' with a red circle icon. Below the builds, a list of recent builds is displayed, including the last failed build (#1) which is underlined.

The screenshot shows the Jenkins interface with the URL [PES1UG23CS621](#) / My Views / All / PES1UG23CS621-backend... / #2. The main area is titled "Console" and displays the build log. The log starts with "Started by user PES1UG23CS621" and ends with "Finished: SUCCESS". It includes details about the build environment, git configuration, and the initial CI/CD project structure.

```

Started by user PES1UG23CS621
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES1UG23CS621-backend-build
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES1UG23CS621-backend-build/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/sushmav418-jpg/end-to-end-cicd-jenkins-docker-nginx.git # timeout=10
Fetching upstream changes from https://github.com/sushmav418-jpg/end-to-end-cicd-jenkins-docker-nginx.git
> git --version # timeout=10
> git --version # 'git version 2.47.3'
> git fetch --tags --progress -- https://github.com/sushmav418-jpg/end-to-end-cicd-jenkins-docker-nginx.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 923005ef7ec5a5a5fbcb8943a70464d4cd7d76e (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 923005ef7ec5a5a5fbcb8943a70464d4cd7d76e # timeout=10
Commit message: "Initial CI/CD project structure with Jenkins, Docker and NGINX"
First time build. Skipping changelog.
Finished: SUCCESS

```

### Task 3 :

The screenshot shows the Jenkins "Configure" screen for the job "PES1UG23CS621-backend...". The "General" tab is selected. The "Enabled" checkbox is checked. The "Description" field is empty. Under "Build Steps", the "This project is parameterized" checkbox is checked. Other options like "Discard old builds", "GitHub project", "Throttle builds", and "Execute concurrent builds if necessary" are unchecked. There are "Save" and "Apply" buttons at the bottom.

**Name** ?  
BACKEND\_COUNT

**Choices** ?  
1  
2|

**!** Requires Choices.

**Description** ?

Plain text [Preview](#)

[Add Parameter](#)

Jenkins / PES1UG23CS621 / My Views / All / PES1UG23CS621-backend-build... Search \* @ # \$

**Project PES1UG23CS621-backend-build**

This build requires parameters:

**BACKEND\_COUNT**

1

**Build** **Cancel**

**Builds >** ...

**Filter**

Today

(Green circle) #2 7:25 AM

(Red circle) #1 7:23 AM

Jenkins 2.541.2

Ss5



Jenkins / PES1UG23CS621-backend... #12

```

#9 exporting manifest
sha256:af352b404bbc6c60ce724a12e6e68cffff3a449d32d07c5c4a65d10bd34ac938 0.ls done
#9 exporting config sha256:7972d999bfc5820c9b5d54dcf78471938c8a055365ac2395b747cf5c847fc42
0.ls done
#9 exporting attestation manifest
sha256:7bc0f34fdd6f58edd5ed36172bcf39ce9140d851110d43f22dbe84b80bba5fb7 0.ls done
#9 exporting manifest list
sha256:26bdf6ad957488259a570d0a2d42b78558935f9b7f7198918d2c0alb43a2c129
#9 exporting manifest list
sha256:26bdf6ad957488259a570d0a2d42b78558935f9b7f7198918d2c0alb43a2c129 0.ls done
#9 naming to docker.io/library/backend-app:latest 0.0s done
#9 unpacking to docker.io/library/backend-app:latest
#9 unpacking to docker.io/library/backend-app:latest 0.3s done
#9 DONE 1.7s
+ docker rm -f backend1 backend2
Error response from daemon: No such container: backend1
Error response from daemon: No such container: backend2
+ [ 1 = 1 ]
+ docker run -d --name backend1 backend-app
b66e04391d59a9356959f28a752f33b587eb8839be5d186cf13425f931e39636
Finished: SUCCESS

```

Jenkins 2.541.2

Ss6



Jenkins / PES1UG23CS621-backend... #13

Status Changes

- Console Output**
- Edit Build Information
- Delete build '#13'
- Polling Log
- Parameters
- Timings
- Git Build Data
- Previous Build

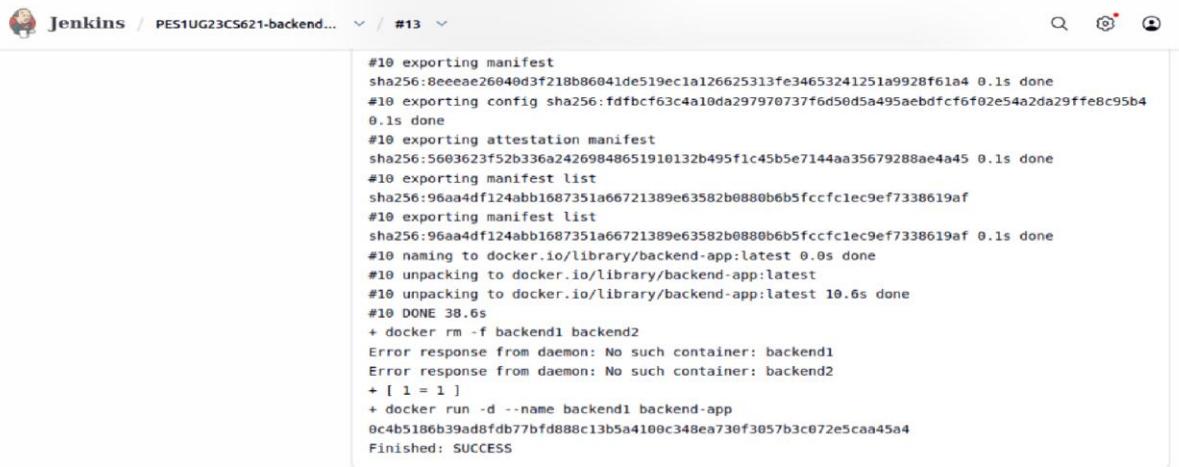
Console

Download Copy View as plain text

```

Started by an SCM change
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES1UG23CS621-backend-build
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES1UG23CS621-backend-build/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/sushmav418-jpg/CC_LAB-6.git # timeout=10
Fetching upstream changes from https://github.com/sushmav418-jpg/CC_LAB-6.git
> git --version # timeout=10
> git --version # 'git' version 2.47.3'
> git fetch --tags --force --progress -- https://github.com/sushmav418-jpg/CC_LAB-6.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 590abdf3063a73de630a4bb8e8ea2e78b00f4f65 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 590abdf3063a73de630a4bb8e8ea2e78b00f4f65 # timeout=10
Commit message: "Lab 6: Initial setup with Jenkins, Docker and NGINX"
First time build. Skipping changelog.
[PES1UG23CS621-backend-build] $ /bin/sh -xe /tmp/jenkins10496754670039646613.sh
+ docker build -t backend-app backend
#0 building with "default" instance using docker driver

```

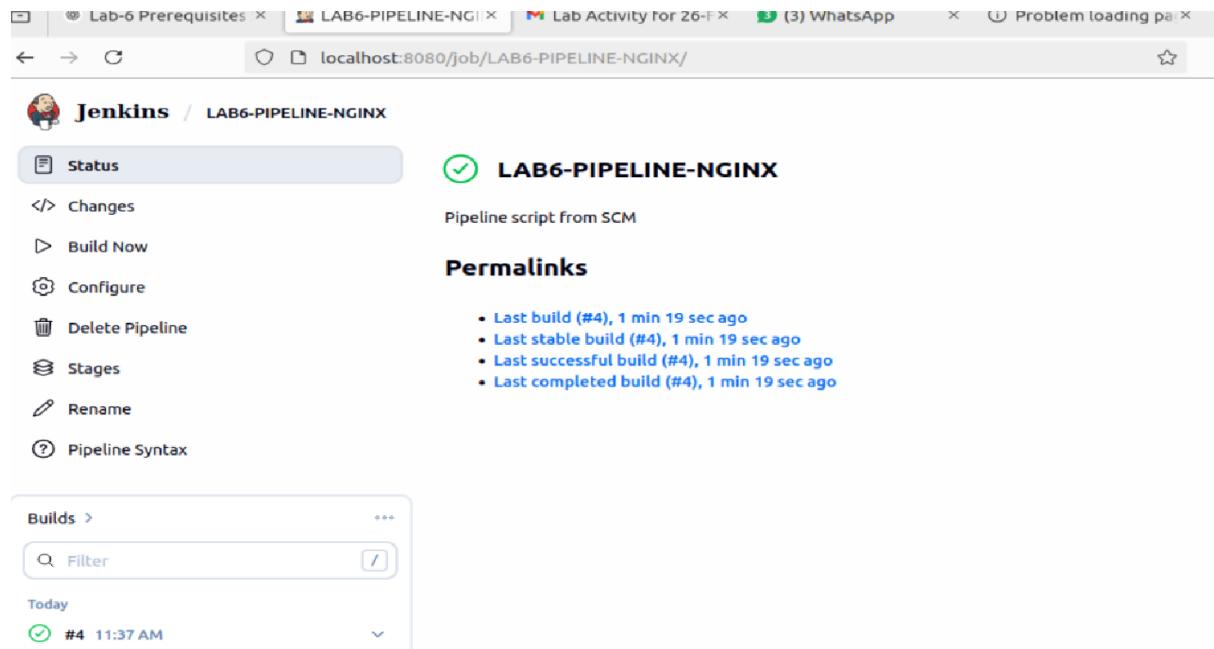


```

#10 exporting manifest
sha256:8eeea2e26040d3f218b86041de519ec1a126625313fe34653241251a9928f61a4 0.ls done
#10 exporting config sha256:fdfbcf63c4a10da297970737f6d50d5a495aeabdfcf6f02e54a2da29ffe8c95b4
0.ls done
#10 exporting attestation manifest
sha256:5603623f52b336a24269848651910132b495f1c45b5e714aa35679288ae4a45 0.ls done
#10 exporting manifest list
sha256:96aa4df124abb1687351a66721389e63582b0880b6b5fccfc1ec9ef7338619af
#10 exporting manifest list
sha256:96aa4df124abb1687351a66721389e63582b0880b6b5fccfc1ec9ef7338619af 0.ls done
#10 naming to docker.io/library/backend-app:latest 0.0s done
#10 unpacking to docker.io/library/backend-app:latest
#10 unpacking to docker.io/library/backend-app:latest 10.6s done
#10 DONE 38.6s
+ docker rm -f backend1 backend2
Error response from daemon: No such container: backend1
+ [ 1 = 1 ]
+ docker run -d --name backend1 backend-app
0c4b5186b39adb8fdb77bfd888c13b5a4100c348ea730f3057b3c072e5caa45a4
Finished: SUCCESS

```

Ss7 :



The screenshot shows the Jenkins interface for the 'LAB6-PIPELINE-NGINX' job. The top navigation bar includes tabs for 'Lab-6 Prerequisites', 'LAB6-PIPELINE-NGINX' (which is active), 'Lab Activity for Z6-PI', '(3) WhatsApp', and 'Problem loading pa'. Below the navigation is a browser-like address bar showing 'localhost:8080/job/LAB6-PIPELINE-NGINX/'. The main content area has a header 'Jenkins / LAB6-PIPELINE-NGINX' with a green checkmark icon and the text 'Pipeline script from SCM'. On the left, there's a sidebar with links: 'Status' (selected), 'Changes', 'Build Now', 'Configure', 'Delete Pipeline', 'Stages', 'Rename', and 'Pipeline Syntax'. The 'Status' section shows a summary: 'Last build (#4), 1 min 19 sec ago', 'Last stable build (#4), 1 min 19 sec ago', 'Last successful build (#4), 1 min 19 sec ago', and 'Last completed build (#4), 1 min 19 sec ago'. Below this is a 'Builds' section with a 'Filter' input field, showing a single entry: '#4 11:37 AM' with a green checkmark. The overall layout is clean and follows the standard Jenkins design.

```

Digest: sha256:0236ee02dcfce00b9bd83e0f5fbc51069e7e1161bd59d99885b3ae1734f3392e
Status: Downloaded newer image for nginx:latest
d29dd49161868fbdde20b94574da32e5b1590178d8e0a35db8a5647fee0bb913
+ sleep 2
+ docker cp nginx/default.conf nginx-lb:/etc/nginx/conf.d/default.conf
+ docker exec nginx-lb nginx -s reload
2026/02/26 11:38:30 [notice] 31#31: signal process started
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline executed successfully. NGINX load balancer is running.
[Pipeline]
[Pipeline] // stage
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

## SS9 — Round-Robin (Default)

**PES1UG23CS621-backend-build**

**Permalinks**

- Last build (#14), 5 min 12 sec ago
- Last stable build (#14), 5 min 12 sec ago
- Last successful build (#14), 5 min 12 sec ago
- Last failed build (#1), 4 hr 18 min ago
- Last unsuccessful build (#1), 4 hr 18 min ago
- Last completed build (#14), 5 min 12 sec ago

Build #	Timestamp
#14	11:37 AM
#13	11:06 AM
#12	8:03 AM
#2	7:25 AM
#1	7:23 AM

Served by backend: backend 1

localhost:8080/user/pes1ug23cs621/my-views/view/all/job/PES1UG23CS621-backend-build/ #15

**Console**

```

Started by user PES1UG23CS621
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES1UG23CS621-backend-build
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --abbrev-ref HEAD
> git rev-parse --git-dir /var/jenkins_home/workspace/PES1UG23CS621-backend-build/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/sushmav418-jpg/CC_LAB-6.git # timeout=10
Fetching upstream changes from https://github.com/sushmav418-jpg/CC_LAB-6.git
> git --version # timeout=10
> git --version # 'git version 2.47.3'
> git fetch --tags --force --progress -- https://github.com/sushmav418-jpg/CC_LAB-6.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision dd5031807cc2ada29e7657332768f00f7dc698c4 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f dd5031807cc2ada29e7657332768f00f7dc698c4 # timeout=10
Commit message: "Fixed nginx config path in Jenkins pipeline"
> git rev-list --no-walk dd5031807cc2ada29e7657332768f00f7dc698c4 # timeout=10
[PES1UG23CS621-backend-build] $ /bin/sh -xe /tmp/jenkins13981036188380591026.sh
+ docker build -t backend-app backend
# building with "default" instance using docker driver

```

Served by backend: backend2

localhost:8080/user/pes1ug23cs621/my-views/view/all/job/PES1UG23CS621-backend-build/ #16

```

0.0s done
#10 exporting attestation manifest
sha256:22c3c9e0c9179721f2ebfd87538035dc36f7bd458d12a0a0a23cb5ca2d56ee4c
#10 exporting attestation manifest
sha256:22c3c9e0c9179721f2ebfd87538035dc36f7bd458d12a0a0a23cb5ca2d56ee4c 0.1s done
#10 exporting manifest list
sha256:264a89a25f60523db623c9b5add7764d5b79fcfdb31c36b167afea7d87b34c00
#10 exporting manifest list
sha256:264a89a25f60523db623c9b5add7764d5b79fcfdb31c36b167afea7d87b34c00 0.1s done
#10 naming to docker.io/library/backend-app:latest 0.0s done
#10 unpacking to docker.io/library/backend-app:latest 0.0s done
#10 DONE 0.45
+ docker rm -f backend1 backend2
backend1
Error response from daemon: No such container: backend2
+ [ 2 = 1 ]
+ docker run -d --name backend1 backend-app
6e7046f729ad338076cf1b246ea2b7eaaaf4f9d6a250397fa7382e53ecf0cd47
+ docker run -d --name backend2 backend-app
60dd1b9e2c862172f3e68471763a45a3e8db92de2d323541c8a8005638f22d22
Finished: SUCCESS

```

Jenkins 2.541.2

Jenkins / PES1UG23CS621 / My Views / All / PES1UG23CS621-backend... / #16

```

0.0s done
#10 exporting attestation manifest
sha256:22c3c9e0c9179721f2ebfd87538035dc36f7bd458d12a0a0a23cb5ca2d56ee4c
#10 exporting attestation manifest
sha256:22c3c9e0c9179721f2ebfd87538035dc36f7bd458d12a0a0a23cb5ca2d56ee4c 0.1s done
#10 exporting manifest list
sha256:264a89a25f60523db623c9b5add7764d5b79fcdfb31c36b167afea7d87b34c00
#10 exporting manifest list
sha256:264a89a25f60523db623c9b5add7764d5b79fcdfb31c36b167afea7d87b34c00 0.1s done
#10 naming to docker.io/library/backend-app:latest 0.0s done
#10 unpacking to docker.io/library/backend-app:latest 0.0s done
#10 DONE 0.4s
+ docker rm -f backend1 backend2
backend1
Error response from daemon: No such container: backend2
+ [ 2 = 1 ]
+ docker run -d --name backend1 backend-app
6e7046f729ad338076cf1b246ea2b7eaaf4f9d6a250397fa7382e53ecf0cde47
+ docker run -d --name backend2 backend-app
60dd1b9e2c862172f3e68471763a45a3e8db92de2d323541c8a8005638f22d22
Finished: SUCCESS

```

Jenkins 2.541.2

## SCREENSHOT (SS10)

- Take **ONE** browser screenshot
- **⚠️** If you see **502 Bad Gateway**, **TAKE IT** — lab explicitly allows it.

Jenkins / LAB6 PIPELINE-NGINX

Status: **Green** (LAB6-PIPELINE-NGINX)

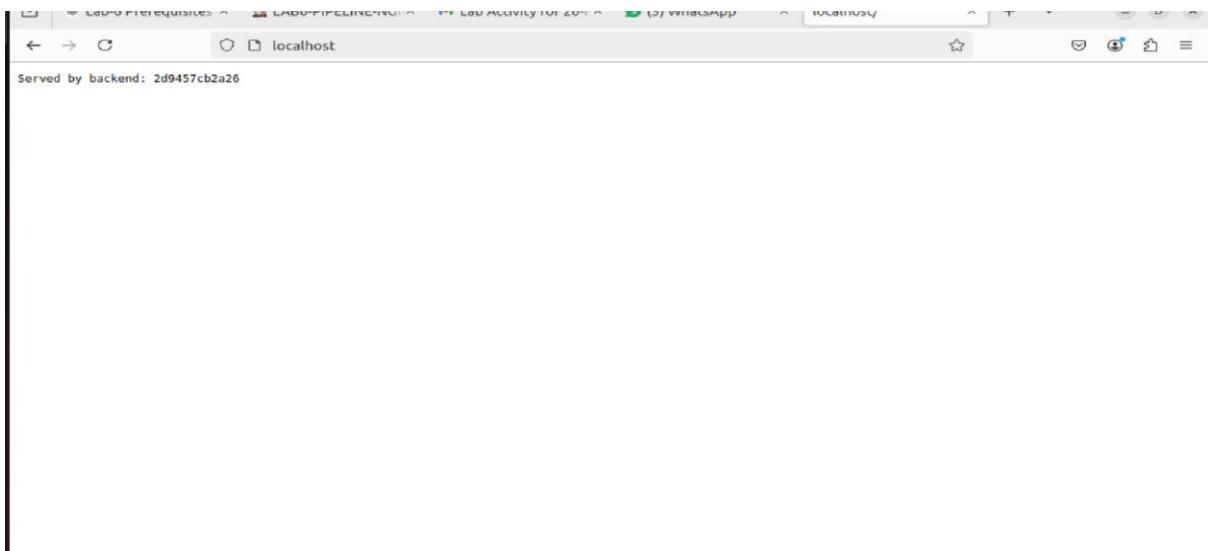
Pipeline script from SCM

**Permalinks:**

- Last build (#6), 30 sec ago
- Last stable build (#6), 30 sec ago
- Last successful build (#6), 30 sec ago
- Last completed build (#6), 30 sec ago

**Builds:**

Build #	Timestamp
#6	11:47 AM
#5	11:40 AM
#4	11:37 AM



Ss11

The screenshot shows a Firefox browser window with multiple tabs open. The active tab is for the Jenkins 'LAB6-PIPELINE-NGINX' job, which is currently in a 'Stable' state. The main content area shows a summary of the pipeline script from SCM, a list of recent builds (including #7, #6, #5, and #4), and a 'Permalinks' section with links to the last four builds. The left sidebar contains icons for Status, Changes, Build Now, Configure, Delete Pipeline, Stages, Rename, and Pipeline Syntax. The browser's toolbar at the top shows the date (Feb 26 17:21) and the URL (localhost:8080/job/LAB6-PIPELINE-NGINX/). The taskbar at the bottom of the screen also lists several other open applications.

Jenkins / LAB6-PIPELINE-NGINX / #7

```
nginx-lb
+ docker run -d --name nginx-lb --network app-network -p 80:80 nginx
124fcfebae5dc510efdf92b910a0d5a256e686f01e559880dc8183db75de7226
+ sleep 2
+ docker cp nginx/default.conf nginx-lb:/etc/nginx/conf.d/default.conf
+ docker exec nginx-lb nginx -s reload
2026/02/26 11:51:26 [notice] 32#32: signal process started
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline executed successfully. NGINX load balancer is running.
[Pipeline]
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Ss11:

