

Name :Chandan B

SRN:PES2UG23CS140

Lab 06 - Jenkins and Nginx

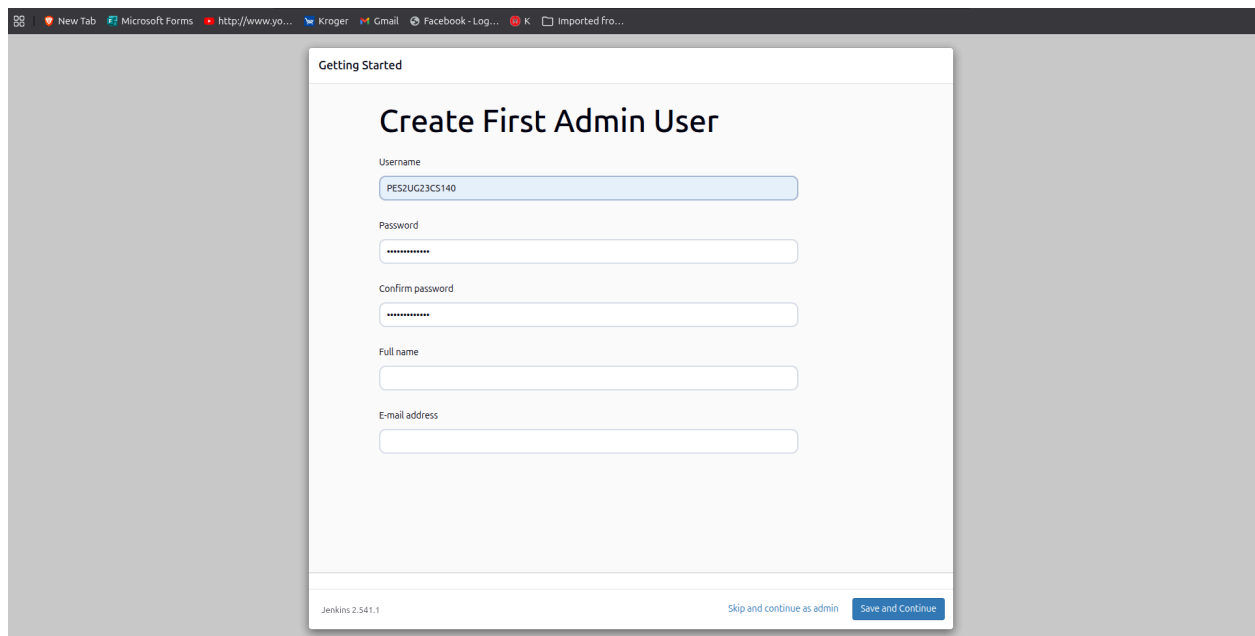
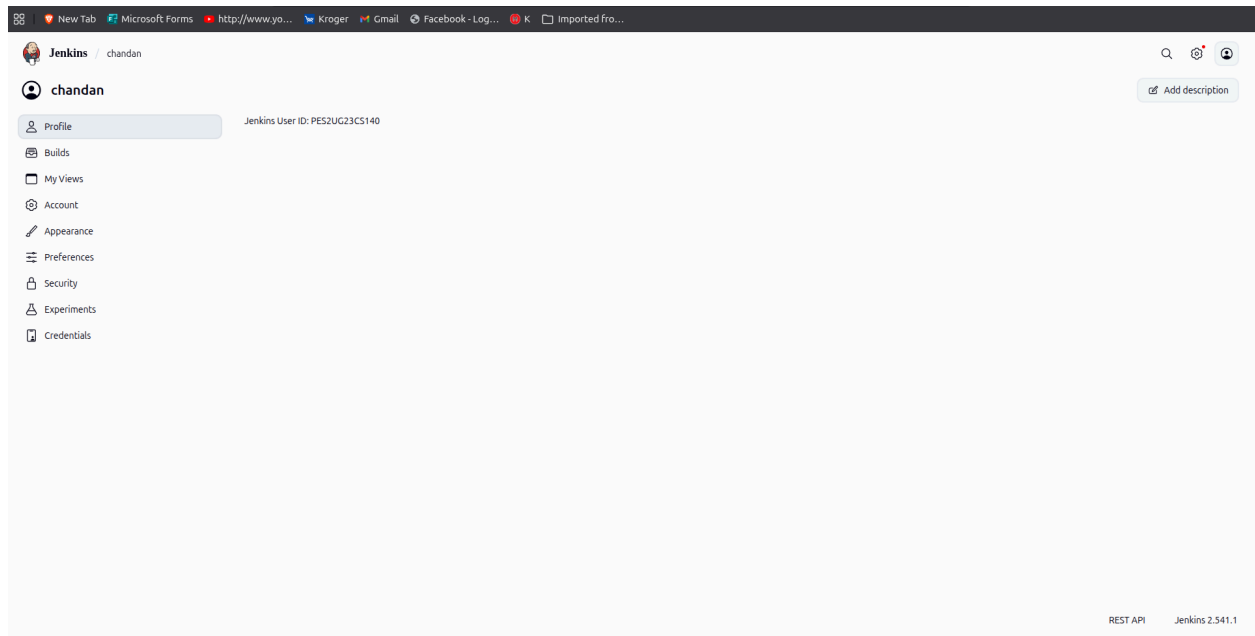
SS1:

```
2026-02-17 09:40:05.004+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-12.1.5; build(-12-03122:10:24:7322); git: 4905d09d76b8016792d7b73946c77666446e25d6; jvm 21.0.9_10-LTS
2026-02-17 09:40:05.223+0000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.ee9.jsp.JettyJspServlet
2026-02-17 09:40:05.257+0000 [id=1] INFO o.e.j.s.DefaultSessionIDManager#doStart: Session workerName=node0
2026-02-17 09:40:05.434+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /var/jenkins_home found at: EnvVars.masterEnvVars.get("JENKINS_HOME")
2026-02-17 09:40:05.487+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started oeje9n.ContextHandler$CoreContextHandler@3681037{Jenkins v2.541.1,/,b-file:///var/jenkins_home/var/,a-AVAILABLE,n=oeje9n.ContextHandler$CoreContextHandler$CoreTestedHandler@2459319c{STARTED}}
2026-02-17 09:40:05.492+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started oejs.ServerConnector@2aa6311a{HTTP/1.1, (http/1.1)}{0.0.0.0:8080}
2026-02-17 09:40:05.493+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started oejs.Server@78525ef9{STARTING}[12.1.5,sto=0] @490ms
2026-02-17 09:40:05.493+0000 [id=43] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2026-02-17 09:40:05.559+0000 [id=42] INFO jenkins.model.Jenkins#<init>: Starting version 2.541.1
2026-02-17 09:40:05.607+0000 [id=51] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2026-02-17 09:40:05.614+0000 [id=72] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
2026-02-17 09:40:05.646+0000 [id=63] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
2026-02-17 09:40:05.650+0000 [id=53] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
2026-02-17 09:40:05.659+0000 [id=51] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
2026-02-17 09:40:05.639+0000 [id=64] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
2026-02-17 09:40:05.613+0000 [id=49] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
2026-02-17 09:40:05.613+0000 [id=66] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
2026-02-17 09:40:05.632+0000 [id=66] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2026-02-17 09:40:05.646+0000 [id=86] INFO hudson.util.Retrier#start: Attempt #1 to do the action check updates server
2026-02-17 09:40:05.663+0000 [id=66] INFO jenkins.install.SetupWizard#init:
[LF]>
[LF]> *****
[LF]> *****
[LF]> *****
[LF]>
[LF]> Jenkins initial setup is required. An admin user has been created and a password generated.
[LF]> Please use the following password to proceed to installation:
[LF]>
[LF]> 42ef8518c5e14a7191ccb6a0fd041a06
[LF]>
[LF]> This may also be found at: /var/jenkins_home/secrets/initialAdminPassword
[LF]>
[LF]> *****
[LF]> *****
[LF]> *****
2026-02-17 09:40:29.132+0000 [id=68] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2026-02-17 09:40:29.144+0000 [id=42] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
2026-02-17 09:40:49.412+0000 [id=86] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
2026-02-17 09:40:49.413+0000 [id=86] INFO hudson.util.Retrier#start: Performed the action check updates server successfully at the attempt #1
2026-02-17 09:44:09.275+0000 [id=119] INFO hudson.PluginManager#install: Starting installation of a batch of 21 plugins plus their dependencies
2026-02-17 09:44:09.276+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of ionicons-api for plugin cloudbees-folder
2026-02-17 09:44:09.276+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of commons-lang3-api for plugin ionicons-api
2026-02-17 09:44:09.276+0000 [id=126] INFO h.m.model.UpdateCenter$DownloadJob#run: Starting the installation of commons-lang3-api on behalf of admin
2026-02-17 09:44:09.276+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of json-path-api for plugin build-timeout
2026-02-17 09:44:09.277+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of asm-api for plugin json-path-api
2026-02-17 09:44:09.277+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of token-macro for plugin build-timeout
2026-02-17 09:44:09.277+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of workflow-step-api for plugin token-macro
2026-02-17 09:44:09.278+0000 [id=119] INFO hudson.model.UpdateSitePlugin#deploy: Adding dependent install of structs for plugin workflow-step-api
```

```
~
> docker pull jenkins/jenkins:lts

lts: Pulling from jenkins/jenkins
17e22d939f17: Pulling fs layer
alc44ba8dd7a: Pulling fs layer
99ddb13f3ebf: Pulling fs layer
e92c5cf141dc: Pulling fs layer
406f94702a48: Pulling fs layer
7ad60f966cc5: Pulling fs layer
39483126681f: Pulling fs layer
ed559592686a: Pulling fs layer
213d96e0ed06: Pulling fs layer
57364cf49183: Pulling fs layer
5b302cbb8ad3: Pulling fs layer
Digest: sha256:d1ea795c6facd7f549a21c40e5e43ffcc5fbc5f48683d9b24750f26e8079d772
Status: Downloaded newer image for jenkins/jenkins:lts
docker.io/jenkins/jenkins:lts
```

SS2:



SS3:

The screenshot shows the Jenkins web interface for a build named 'PES2UG23CS140-backend-build'. The left sidebar contains navigation links: Status, Changes, Console Output (selected), Edit Build Information, Delete build 'w6', Timings, Git Build Data, and Previous Build. The main area displays the 'Console' output, which includes the following text:

```
Started by user chandan
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES2UG23CS140-backend-build
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES2UG23CS140-backend-build/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/chandann23/CC_Lab-6 # timeout=10
Fetching upstream changes from https://github.com/chandann23/CC_Lab-6
> git --version # timeout=10
> git --version # 'git version 2.47.3'
> git fetch --tags --force --progress -- https://github.com/chandann23/CC_Lab-6 +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision a370b23cc589eca2896e33dc7cc015ba05f84fad (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f a370b23cc589eca2896e33dc7cc015ba05f84fad # timeout=10
Commit message: "Initial Jenkins lab setup"
> git rev-list --no-walk a370b23cc589eca2896e33dc7cc015ba05f84fad # timeout=10
[PES2UG23CS140-backend-build] $ /bin/sh -xe /tmp/jenkins509709940858833124.sh
+ docker build -t backend-app backend
#0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 185B done
#1 DONE 0.0s

#2 [internal] load metadata for docker.io/library/ubuntu:22.04
#2 DONE 4.2s

#3 [internal] load .dockerignore
#3 transferring context: 2B done
#3 DONE 0.0s

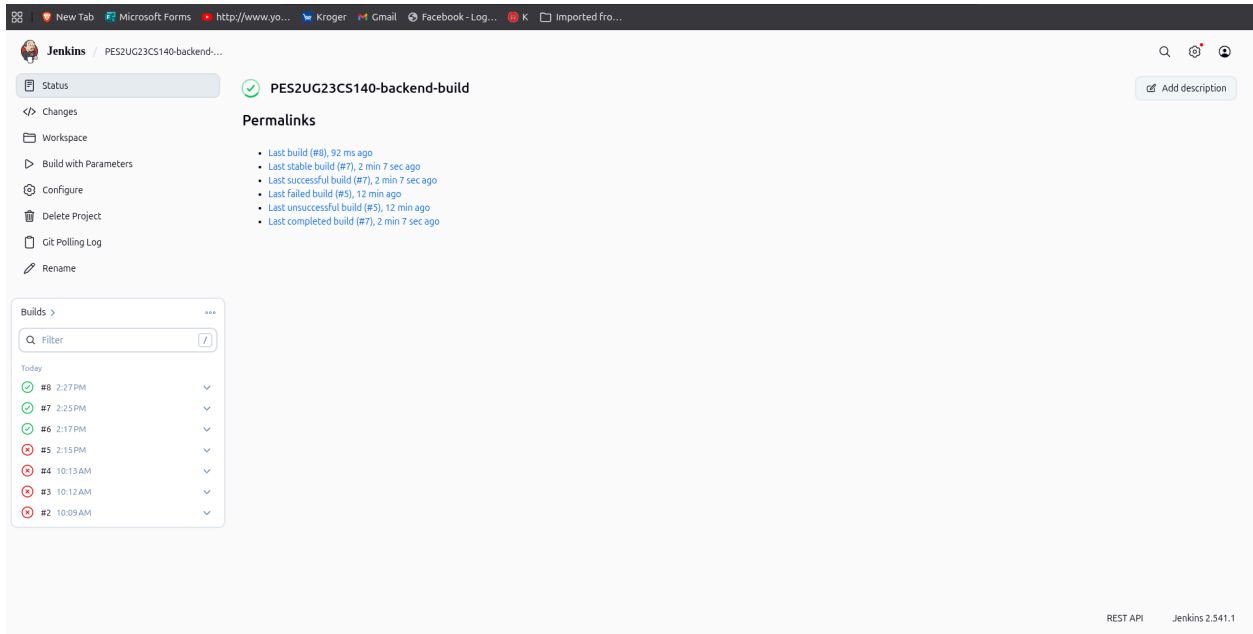
#4 [internal] load build context
```

SS4:

The screenshot shows the Jenkins web interface for the same build. The left sidebar contains navigation links: Status (selected), Changes, Workspace, Build Now, Configure, Delete Project, Git Polling Log, and Rename. The main area displays the build overview for 'PES2UG23CS140-backend-build', which is marked as successful with a green checkmark. Below the build name, there are 'Permalinks' for various build stages. At the bottom, there is a 'Builds' section with a filter input and a list of recent builds:

Build Number	Status	Time
#6	Success	2:17 PM
#5	Failure	2:15 PM
#4	Failure	10:13 AM
#3	Failure	10:12 AM
#2	Failure	10:09 AM

SS5:



This screenshot shows the Jenkins web interface for a build named 'PES2UG23CS140-backend-build'. The left sidebar contains navigation links: Status, Changes, Workspace, Build with Parameters, Configure, Delete Project, Git Polling Log, and Rename. The main area displays the build status as 'Success' with a green checkmark. Below the status, there are 'Permalinks' for various build stages: Last build (#8), Last stable build (#7), Last successful build (#7), Last failed build (#5), Last unsuccessful build (#5), and Last completed build (#7). A 'Builds' dropdown menu is open, showing a list of builds from #2 to #8 with their respective times and status icons. The bottom right corner shows 'REST API' and 'Jenkins 2.541.1'.

Jenkins / PES2UG23CS140-backend-build

Status

Changes

Workspace

Build with Parameters

Configure

Delete Project

Git Polling Log

Rename

Builds >

Filter

Today

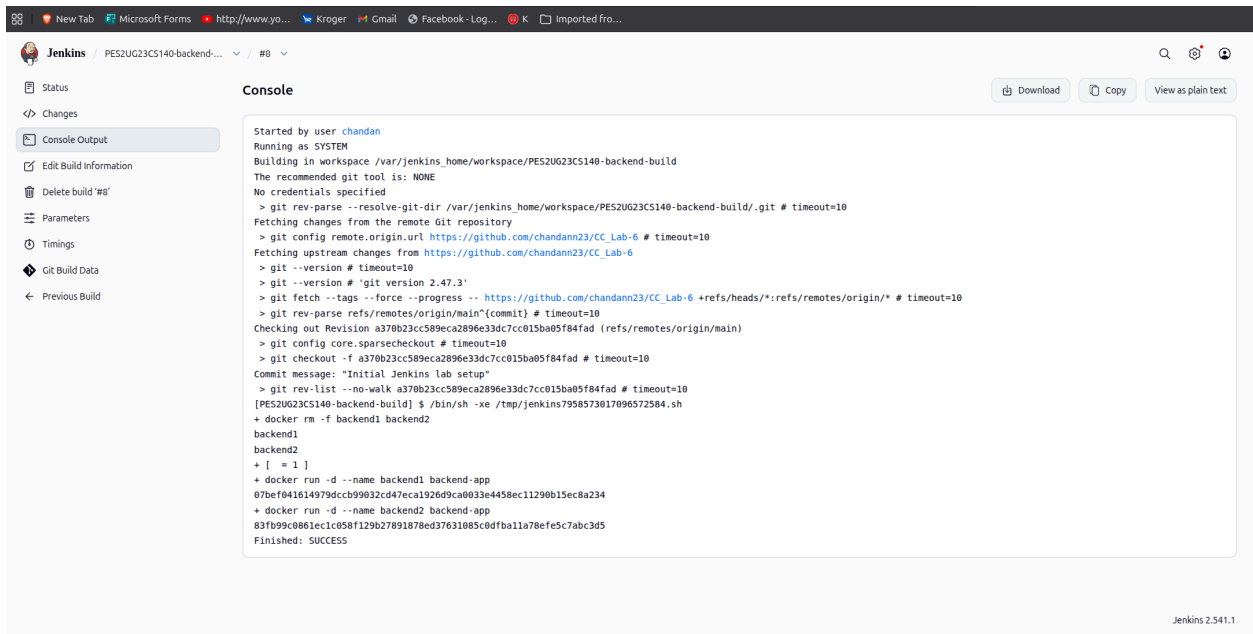
- #8 2:27 PM
- #7 2:25 PM
- #6 2:17 PM
- #5 2:15 PM
- #4 10:13 AM
- #3 10:12 AM
- #2 10:09 AM

Permalinks

- Last build (#8), 92 ms ago
- Last stable build (#7), 2 min 7 sec ago
- Last successful build (#7), 2 min 7 sec ago
- Last failed build (#5), 12 min ago
- Last unsuccessful build (#5), 12 min ago
- Last completed build (#7), 2 min 7 sec ago

REST API Jenkins 2.541.1

SS6:



This screenshot shows the Jenkins web interface for the same build, but with the 'Console' tab selected. The left sidebar now includes 'Console Output', 'Edit Build Information', 'Delete build 'wsi'', 'Parameters', 'Timings', 'Git Build Data', and 'Previous Build'. The main area displays the console output, which shows the build process starting with 'Started by user chandan'. The output includes commands for setting up the workspace, fetching changes from the remote Git repository, checking out the revision, and running Docker containers for 'backend1' and 'backend2'. The build finished successfully with the message 'Finished: SUCCESS'. The bottom right corner shows 'Jenkins 2.541.1'.

Jenkins / PES2UG23CS140-backend-build / #8

Status

Changes

Console Output

Edit Build Information

Delete build 'wsi'

Parameters

Timings

Git Build Data

Previous Build

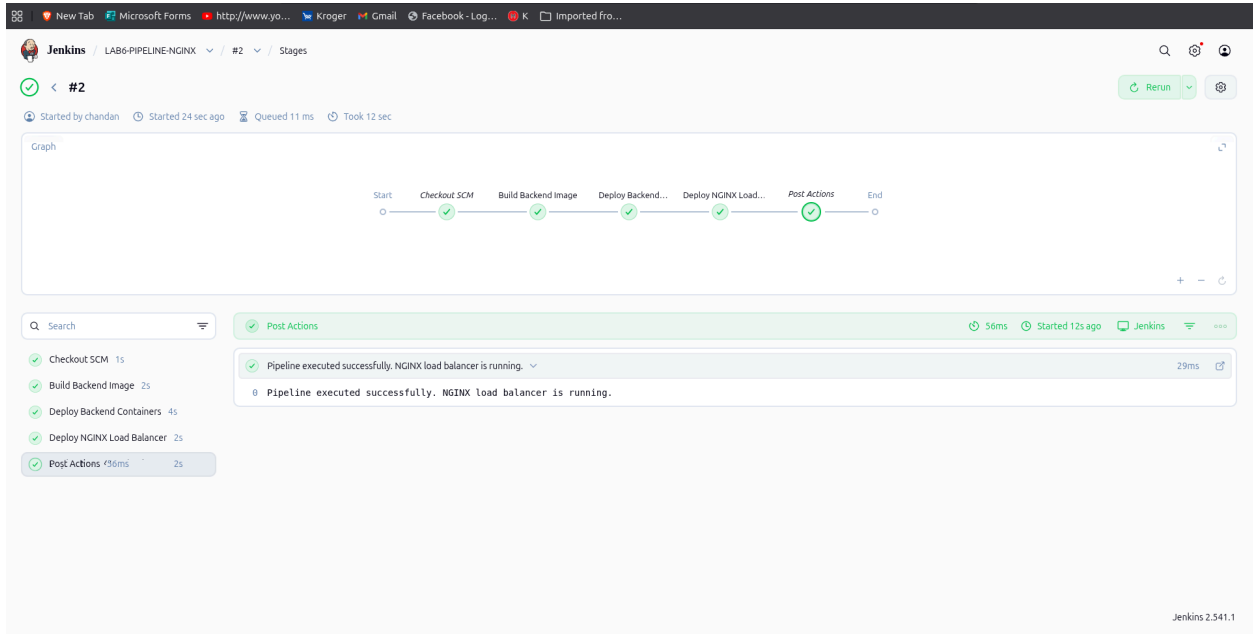
Console

Download Copy View as plain text

```
Started by user chandan
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES2UG23CS140-backend-build
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES2UG23CS140-backend-build/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/chandann23/CC_Lab-6 # timeout=10
Fetching upstream changes from https://github.com/chandann23/CC_Lab-6
> git --version # timeout=10
> git --version # 'git version 2.47.3'
> git fetch --tags --force --progress -- https://github.com/chandann23/CC_Lab-6 +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision a370b23cc589eca2896e33dc7cc015ba05f84fad (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f a370b23cc589eca2896e33dc7cc015ba05f84fad # timeout=10
Commit message: "Initial Jenkins lab setup"
> git rev-list --no-walk a370b23cc589eca2896e33dc7cc015ba05f84fad # timeout=10
[PES2UG23CS140-backend-build] $ /bin/sh -xe /tmp/jenkins7958573017096572584.sh
+ docker rm -f backend1 backend2
backend1
backend2
+ [ = 1 ]
+ docker run -d --name backend1 backend-app
87bf041614979dccb99032cd47eca1926d9ca06033e4458ec11290b15ec8a234
+ docker run -d --name backend2 backend-app
83fb99c0861ec1c58f129b27891878ed37631085c0dfba11a78ef5c7abc3d5
Finished: SUCCESS
```

Jenkins 2.541.1

SS7:



Jenkins / LAB6-PIPELINE-NGINX / #2 / Stages

Started by chandan · Started 24 sec ago · Queued 11 ms · Took 12 sec

Graph

```
graph LR; Start((Start)) --> CheckoutSCM[Checkout SCM]; CheckoutSCM --> BuildBackendImage[Build Backend Image]; BuildBackendImage --> DeployBackend[Deploy Backend...]; DeployBackend --> DeployNGINXLoad[Deploy NGINX Load...]; DeployNGINXLoad --> PostActions[Post Actions]; PostActions --> End((End));
```

Search

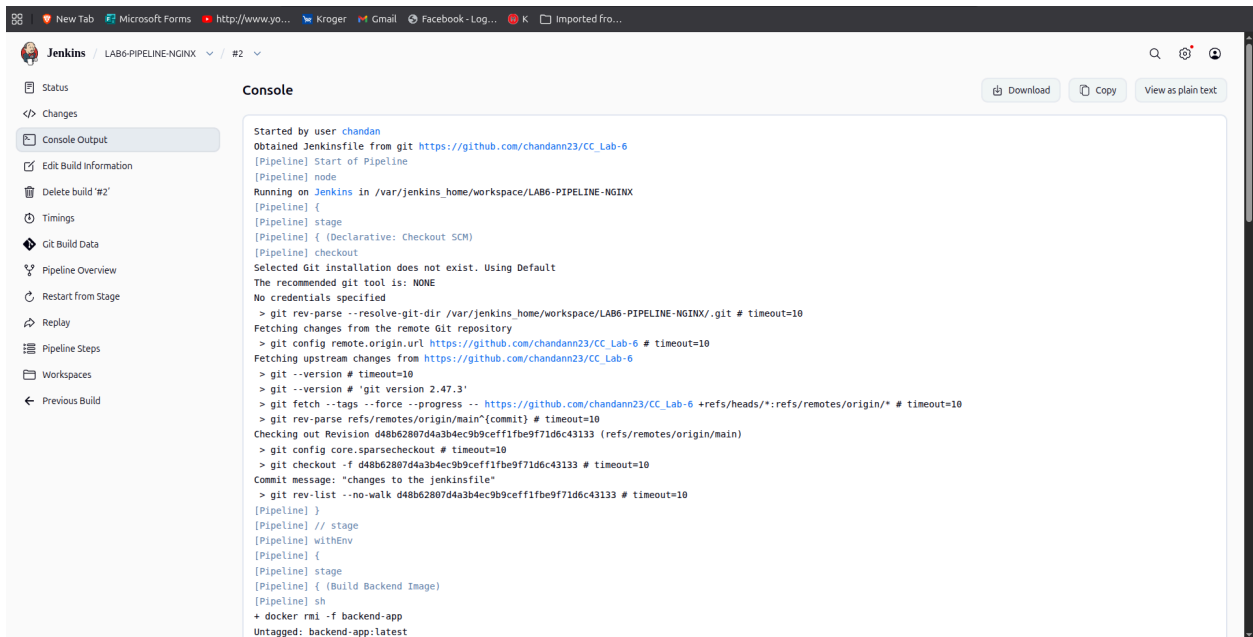
- ✓ Checkout SCM 1s
- ✓ Build Backend Image 2s
- ✓ Deploy Backend Containers 4s
- ✓ Deploy NGINX Load Balancer 2s
- ✓ Post Actions 436ms 2s

Post Actions

- ✓ Pipeline executed successfully. NGINX load balancer is running. 29ms
- 0 Pipeline executed successfully. NGINX load balancer is running.

Jenkins 2.541.1

SS8:



Jenkins / LAB6-PIPELINE-NGINX / #2

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Timings

Git Build Data

Pipeline Overview

Restart from Stage

Replay

Pipeline Steps

Workspaces

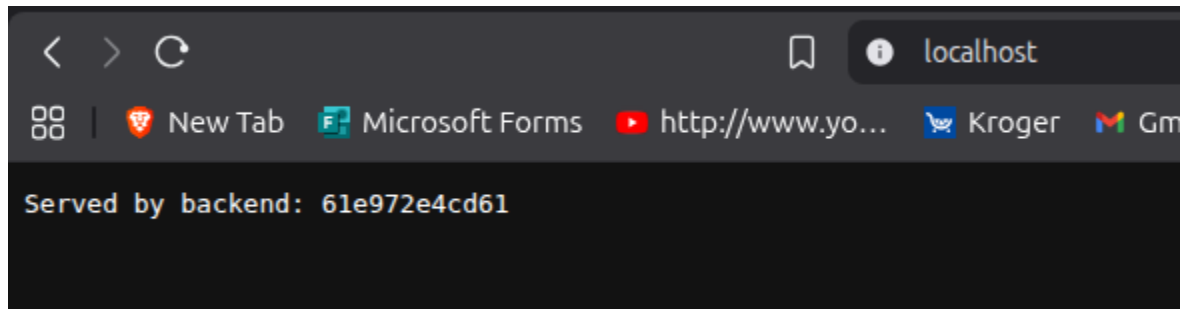
Previous Build

Console

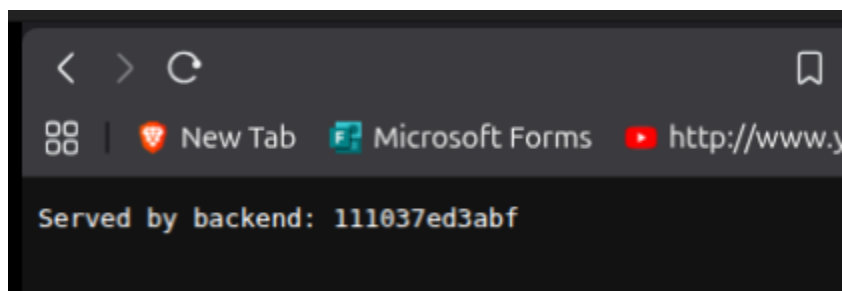
Download Copy View as plain text

```
Started by user chandan
Obtained Jenkinsfile from git https://github.com/chandann23/CC_Lab-6
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/LAB6-PIPELINE-NGINX
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/LAB6-PIPELINE-NGINX/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/chandann23/CC_Lab-6 # timeout=10
Fetching upstream changes from https://github.com/chandann23/CC_Lab-6
> git --version # timeout=10
> git --version # 'git version 2.47.3'
> git fetch --tags --force --progress -- https://github.com/chandann23/CC_Lab-6 +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision d48b62807d4a3b4ec9b9ceff1f971d6c43133 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f d48b62807d4a3b4ec9b9ceff1f971d6c43133 # timeout=10
Commit message: "changes to the jenkinsfile"
> git rev-list --no-walk d48b62807d4a3b4ec9b9ceff1f971d6c43133 # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build Backend Image)
[Pipeline] sh
+ docker rmi -f backend-app
Untagged: backend-app:latest
```

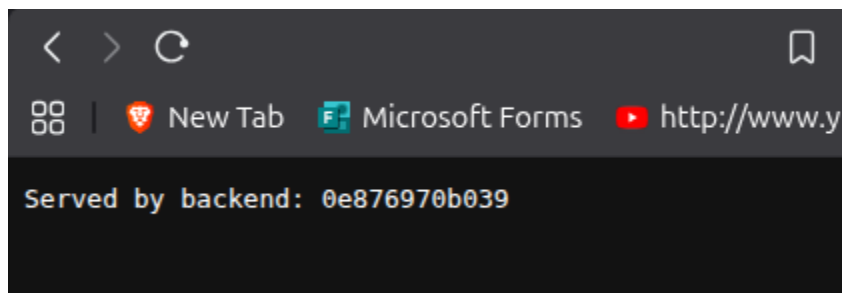
SS9:



SS10:



SS11:



SS12:



SS13:

