

TASK 2

Step 1: Open Jenkins and click "**New Item.**"

Step 2: Enter a project name, select "**Pipeline,**" then click **OK.**

Step 3: In the **General** tab, scroll down to the "**Pipeline**" section.

Step 4: Under "**Definition,**" select "**Pipeline script from SCM.**"

Step 5: In the **SCM** field, choose "**Git,**" then enter your GitHub repository URL.

Step 6: Ensure your GitHub repository contains the following files:

- app.py (Application code)
- Dockerfile (Instructions to build the Docker image)
- docker-compose.yml (For container orchestration)
- Jenkinsfile (Defines the pipeline stages)
- requirements.txt (Dependencies for the application)

Step 7: Click "**Save**" to apply the configuration.

Step 8: On the project page, click "**Build Now**" to start the job.

Step 9: The build status will appear in the **Build History** panel (left-side panel).

Step 10: Click on the latest build (#1, #2, etc.) and select "**Console Output**" to view logs and results.

Activities Firefox Mar 19 14:34

(no subject) - avanthikha: x Setup Kubernetes kubect x sample - Jenkins x

localhost:8080/job/sample/ 50%

Jenkins

Dashboard > sample >

Status **sample** Add description

Changes Build Now Configure Delete Pipeline GitHub Stages Rename Pipeline Syntax

Builds Filter

Today

- #4 11:41 AM
- #3 11:33 AM
- #2 11:23 AM
- #1 11:21 AM

id pipeline

#4 Start Checkout SCM Checkout Code Build Docker L... Login to Docker... Push Image to ... Deploy using D... Post Actions End

#3 Start Checkout SCM Checkout Code Build Docker L... Login to Docker... Push Image to ... Deploy using D... Post Actions End

#2 Start Checkout SCM Checkout Code Build Docker L... Login to Docker... Push Image to ... Deploy using D... Post Actions End

#1 Start Checkout SCM Checkout Code Build Docker L... Login to Docker... Push Image to ... Deploy using D... Post Actions End

Permalinks

- Last build (#4), 2 hr 13 min ago
- Last stable build (#4), 2 hr 53 min ago
- Last successful build (#4), 2 hr 53 min ago
- Last failed build (#3), 3 hr 1 min ago
- Last unsuccessful build (#3), 3 hr 1 min ago
- Last completed build (#4), 2 hr 53 min ago

REST API Jenkins 2.501

Activities Firefox Mar 19 14:35

(no subject) - avanthikha: x Setup Kubernetes kubect x Build log [#4] - Jenkins x

localhost:8080/job/sample/4/pipeline-console/

Jenkins

Dashboard > sample > #4 > Pipeline Console

Success 2 hr 54 min ago in 2 min 29 sec

Build #4

Rebuild Overview Configure

Checkout SCM

Checkout Code

Build Docker Image

Login to Docker Registry

Push Image to Docker Registry

Deploy using Docker Compose

Post Actions

Stage 'Post Actions'

Started 2 hr 51 min ago

Queued 0 ms

Took 0.91 sec

Success

Running on Jenkins

View as plain text

Pipeline executed successfully!

Print Message 0.61 sec

0 Pipeline executed successfully!

Scroll to Bottom

localhost:8080/job/sample/configure

Jenkins 2.501

Activities Firefox Mar 19 14:35

(no subject) - avanthikha Setup Kubernetes kubect Graph [sample #4] - Jenkins

localhost:8080/job/sample/4/pipeline-graph/ 50%

Jenkins

Dashboard sample #4 Pipeline Overview

Build #4

Rebuild Console Configure

Pipeline

```
graph LR; Start --> Checkout_SCM[Checkout SCM]; Checkout_SCM --> Checkout_Code[Checkout Code]; Checkout_Code --> Build_Docker_L[Build Docker L...]; Build_Docker_L --> Login_to_Docke[Login to Docke...]; Login_to_Docke --> Push_Image_to[Push Image to ...]; Push_Image_to --> Deploy_using_D[Deploy using D...]; Deploy_using_D --> Post_Actions[Post Actions]; Post_Actions --> End
```

Details

- Manually run by Avanthikha BS
- Started 2 hr 33 min ago
- Queued 14 ms
- Took 2 min 29 sec

Jenkins 2.501

Activities Firefox Mar 19 14:39

Inbox (1,240) - avanthikha Setup Kubernetes kubect task1 #4 Console - Jenkins

localhost:8080/job/task1/4/console 80%

Jenkins

Dashboard task1 #4 Console Output

Status Changes Console Output Edit Build Information Delete build '#4' Timings Previous Build

Console Output

Download Copy View as plain text

```
Started by user Avanthikha BS
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/task1
[task1] $ /bin/sh -xe /tmp/jenkins4559816073244467271.sh
+ sudo apt update -y

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Hit:1 https://download.docker.com/linux/ubuntu jammy InRelease
Ign:2 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:3 https://pkg.jenkins.io/debian-stable binary/ Release
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:6 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2,388 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [768 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,194 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [760 kB]
Fetched 5,367 kB in 13s (415 kB/s)
Reading package lists...
Building dependency tree...
Reading state information...
30 packages can be upgraded. Run 'apt list --upgradable' to see them.
Finished: SUCCESS
```