

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.

Setup Wizard Firefox Private Sarmila #5 Job DSL | Jenkins Pyenv Pipeline Managing Pipeline Google Job DSL | Jenkins

192.168.11.198:8080/job/Sarmila/lastBuild/console

Dashboard Sarmila #5 Console Output

Status Changes Console Output Edit Build Information Delete build '#8' Timings Git Build Data Open Blue Ocean Pipeline Overview Pipeline Console Restart from Stage Replay

Console Output

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```
Started by user Sarmila polansamy
Obtained Jenkinsfile from git https://github.com/Sarmila04/jenkins-repo
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/cdcd_pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] | Declarative: Checkout SCM
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential Github
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/cdcd_pipeline/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Harshini-Gunasekar/Jenkins-repo # timeout=10
Fetching upstream changes from https://github.com/Harshini-Gunasekar/Jenkins-repo
> git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT_ASKPASS to set credentials
> git fetch --tags --force --progress -- https://github.com/Harshini-Gunasekar/Jenkins-repo :refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 51307a261f9f9fcb6675a094cb082a0f2def (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 51307a261f9f9fcb6675a094cb082a0f2def # timeout=10
> git --version # timeout=10
```

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Console Output

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```
#0 3.270 Collecting flask==3.0.0 (from -r requirements.txt (line 1))
#0 3.533 Downloading flask-3.0.0-py3-none-any.whl.metadata (3.6 kB)
#0 3.796 Collecting Werkzeug==3.0.0 (from flask==3.0.0->-r requirements.txt (line 1))
#0 3.820 Downloading werkzeug-3.1.3-py3-none-any.whl.metadata (3.7 kB)
#0 3.976 Collecting Jinja2==3.1.2 (from flask==3.0.0->-r requirements.txt (line 1))
#0 4.008 Downloading Jinja2-3.1.2-py3-none-any.whl.metadata (2.9 kB)
#0 4.053 Collecting itsdangerous==2.1.2 (from flask==3.0.0->-r requirements.txt (line 1))
#0 4.145 Downloading itsdangerous-2.2.0-py3-none-any.whl.metadata (1.9 kB)
#0 4.207 Collecting click==8.1.8 (from flask==3.0.0->-r requirements.txt (line 1))
#0 4.237 Downloading click-8.1.8-py3-none-any.whl.metadata (2.3 kB)
#0 4.298 Collecting blinker==1.6.2 (from flask==3.0.0->-r requirements.txt (line 1))
#0 4.323 Downloading blinker-1.8.0-py3-none-any.whl.metadata (1.4 kB)
#0 4.405 Collecting MarkupSafe==2.0 (from Jinja2==3.1.2->flask==3.0.0->-r requirements.txt (line 1))
#0 4.488 Downloading MarkupSafe-3.0.2-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (4.8 kB)
#0 4.526 Downloading flask-3.0.0-py3-none-any.whl (90 kB)
#0 4.572 ----- 99.7/99.7 kB 2.6 MB/s eta 0:00:00
#0 4.597 Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
#0 4.654 Downloading click-8.1.8-py3-none-any.whl (96 kB)
#0 4.690 ----- 98.2/98.2 kB 157.4 MB/s eta 0:00:00
#0 4.735 Downloading itsdangerous-2.2.0-py3-none-any.whl (16 kB)
#0 4.813 Downloading Jinja2-3.1.2-py3-none-any.whl (134 kB)
#0 4.905 ----- 134.9/134.9 kB 1.3 MB/s eta 0:00:00
#0 5.072 Downloading werkzeug-3.1.3-py3-none-any.whl (224 kB)
#0 5.245 ----- 224.5/224.5 kB 1.4 MB/s eta 0:00:00
#0 5.387 Downloading MarkupSafe-3.0.2-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (23 kB)
#0 5.401 Installing collected packages: MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jinja2, flask
#0 6.004 Successfully installed Jinja2-3.1.2 MarkupSafe-3.0.2 Werkzeug-3.1.3 blinker-1.9.0 click-8.1.8 flask-3.0.0 itsdangerous-2.2.0
```

Setup Wizard

Firefox Private

Sarmila #5 x

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DashboardSarmila#5Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#8'

Timings

Git Build Data


Open Blue Ocean

Pipeline Overview

Pipeline Console

Restart from Stage

Replay



Console Output

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```
*** SHIM: W/UX ***
Image for service app was built because it did not already exist. To rebuild this image you must use 'docker-compose build' or 'docker-compose up --build'
Creating cdcd_pipeline_db_1 ...
Creating cdcd_pipeline_redis_1 ...
Creating cdcd_pipeline_db_1 ... done
Creating cdcd_pipeline_app_1 ...
Creating cdcd_pipeline_app_1 ... done
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline executed successfully!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Windows taskbar with search bar and icons for various applications.

31°C 11:21 PM 3/20/2025