

Lab Exercise 20

Creating a Pipeline Script

Objective: To create a pipeline script for automating build processes in Jenkins

Tools required: Jenkins

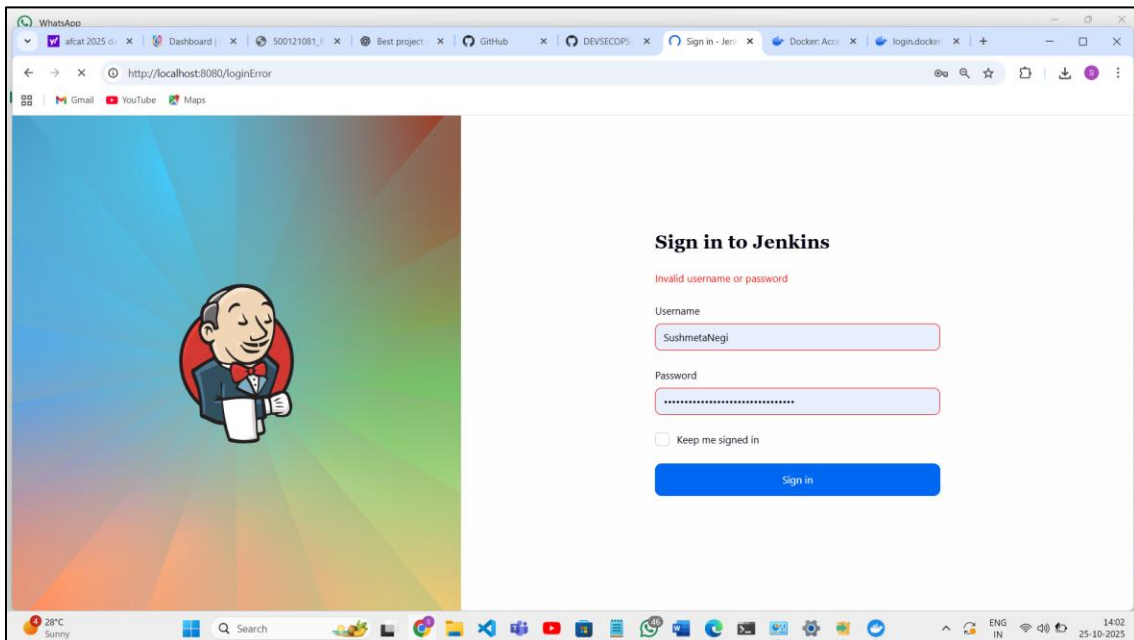
Prerequisites: None

Steps to be followed:

1. Log in to the Jenkins CI tool and create a pipeline script

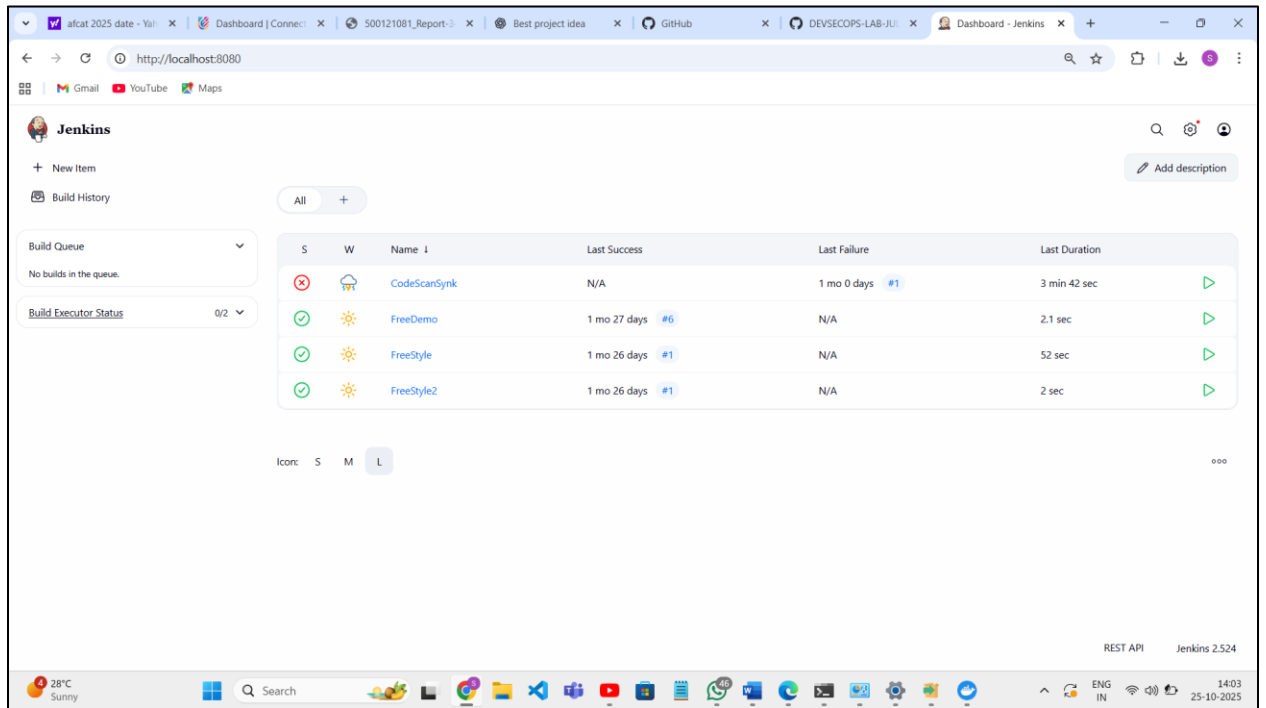
Step 1: Log in to the Jenkins CI tool and create a pipeline script

- 1.1 Open the browser, go to the Jenkins **Dashboard** by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button

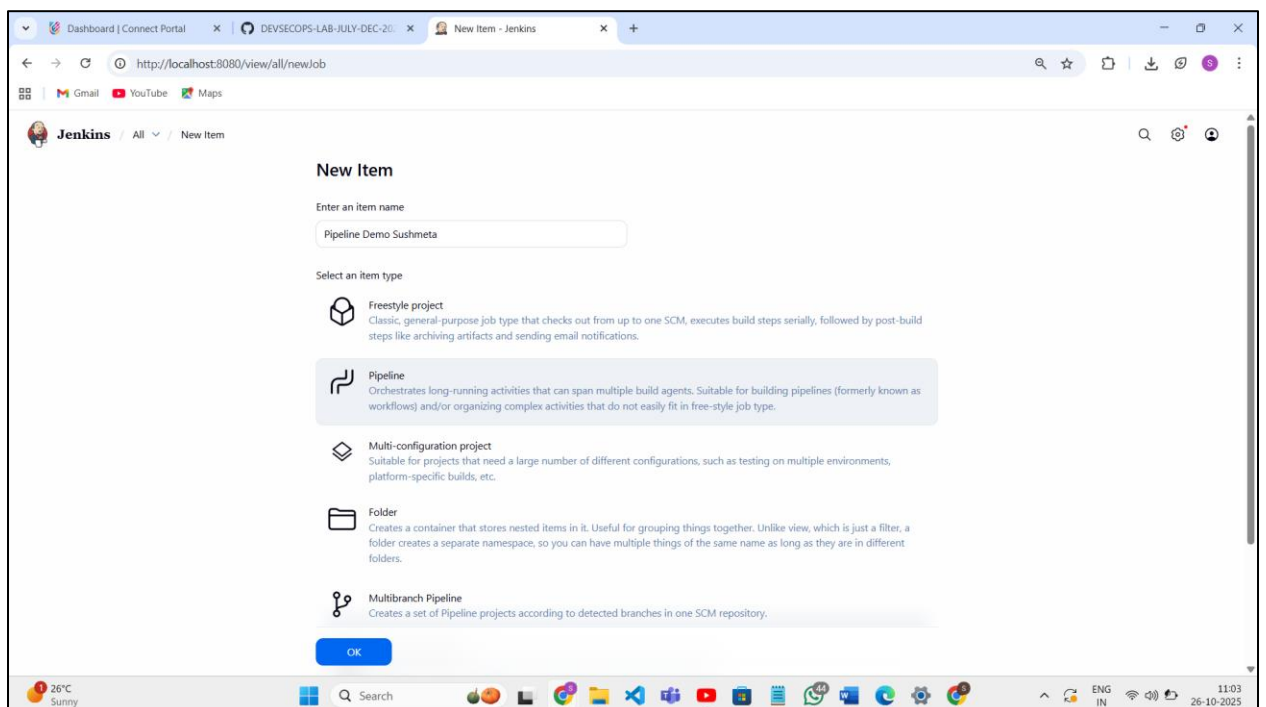


Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

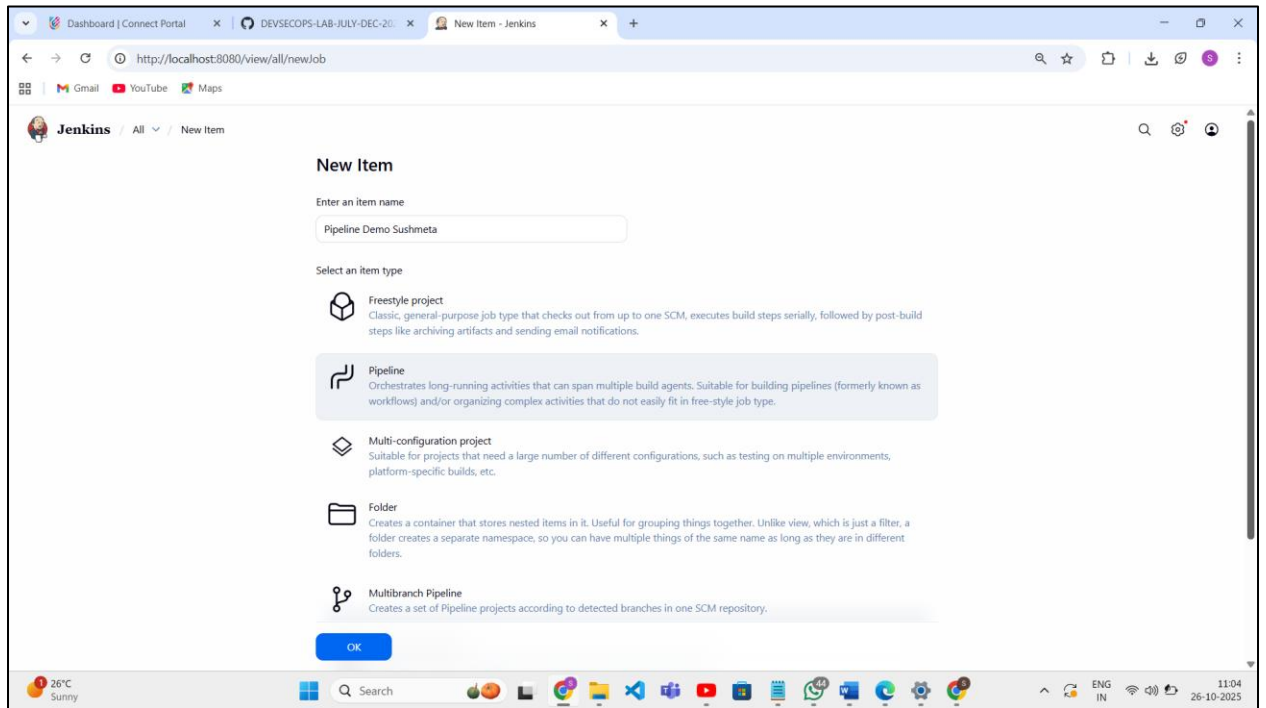
1.2 Click on the **New Item** option as shown in the screenshot below:



1.3 Enter a desired name for the project, select **Pipeline**, and then click on **OK** as shown in the screenshot below:



1.4 Click on **Pipeline** as shown in the screenshot below:



1.5 Enter the following pipeline script in the script editor and click on **Save** as shown in the screenshot below:

```
pipeline {
  agent any
  stages {
    stage("hello") {
      steps{
        echo"welcome to Jenkins pipeline"
      }
    }
  }
}
```

Dashboard | Connect Portal | DEVSECCOPS-LAB-JULY-DEC-20 | Pipeline Demo Sushmeta Config

http://localhost:8080/job/Pipeline%20Demo%20Sushmeta/configure

Jenkins / Pipeline Demo Sushmeta / Configuration

Configure

General
Triggers
Pipeline
Advanced

Pipeline script

```
1 pipeline {  
2   agent any  
3   stages {  
4     stage("hello") {  
5       steps(  
6         echo "welcome to Jenkins pipeline"  
7       )  
8     }  
9   }  
10 }  
11
```

try sample Pipeline...

☒ Use Groovy Sandbox

Pipeline Syntax

Advanced

Advanced

Save Apply

26°C Sunny

Dashboard | Connect Portal | DEVSECCOPS-LAB-JULY-DEC-20 | Pipeline Demo Sushmeta - Jenkins

http://localhost:8080/job/Pipeline%20Demo%20Sushmeta/

Jenkins / Pipeline Demo Sushmeta

Status
Changes
Build Now
Configure
Delete Pipeline
Stages
Rename
Pipeline Syntax
Credentials

Pipeline Demo Sushmeta

Pipeline Demo

Permalinks

Builds

No builds

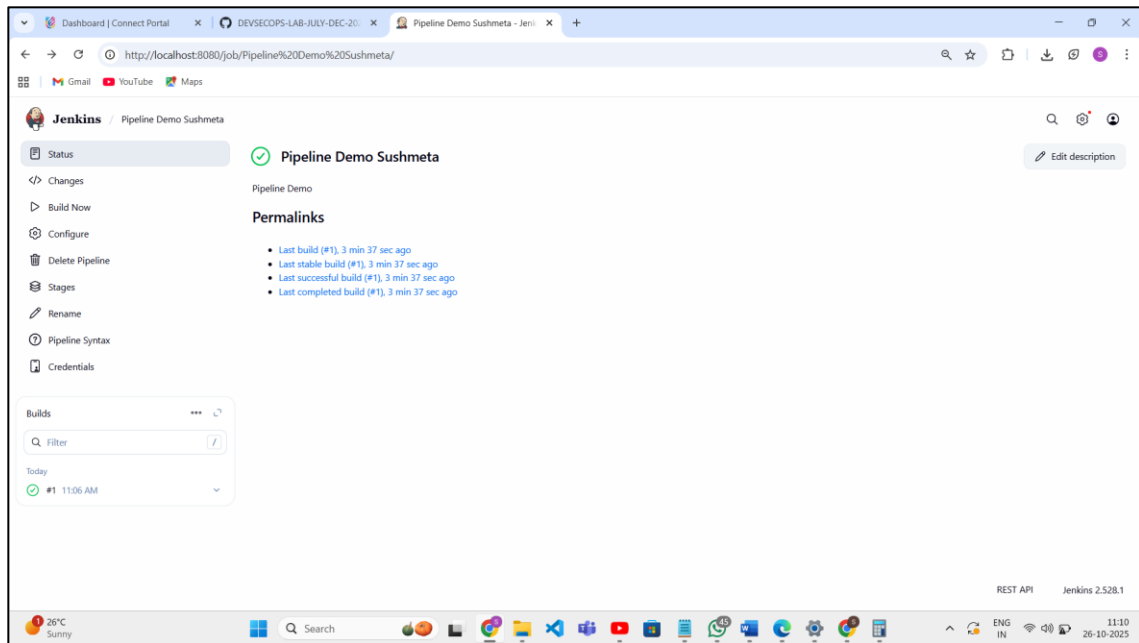
Edit description

26 October 2025

REST API Sun 11:06 (Local time)

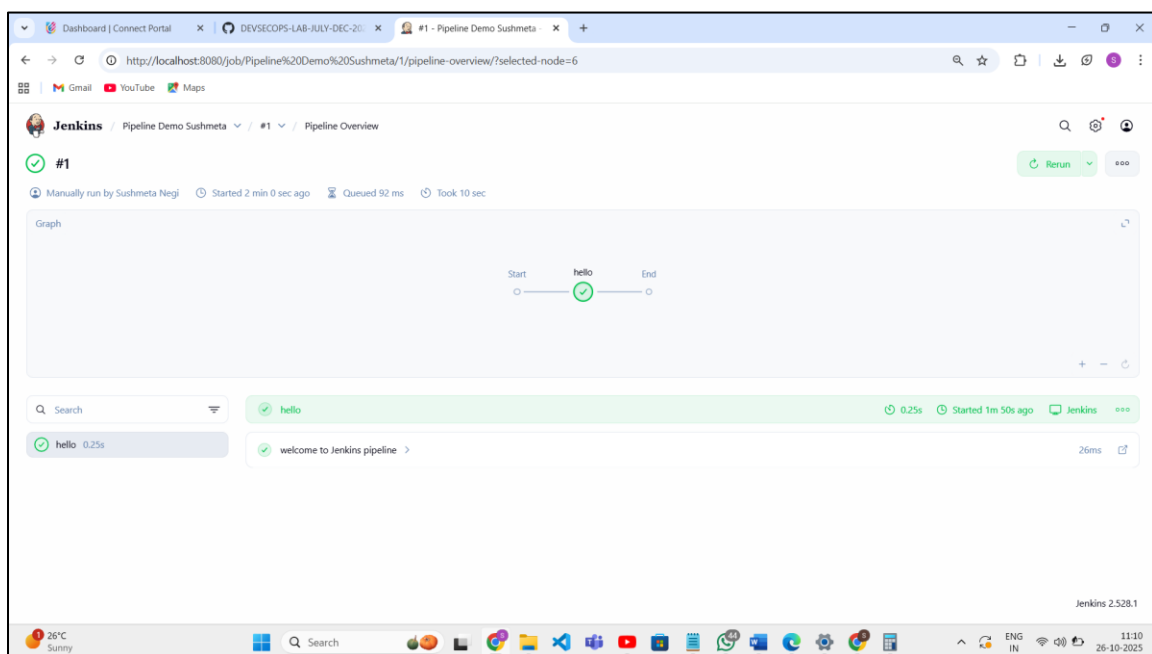
26°C Sunny

1.6 Click on **Build Now** to run the pipeline script as shown in the screenshot below:



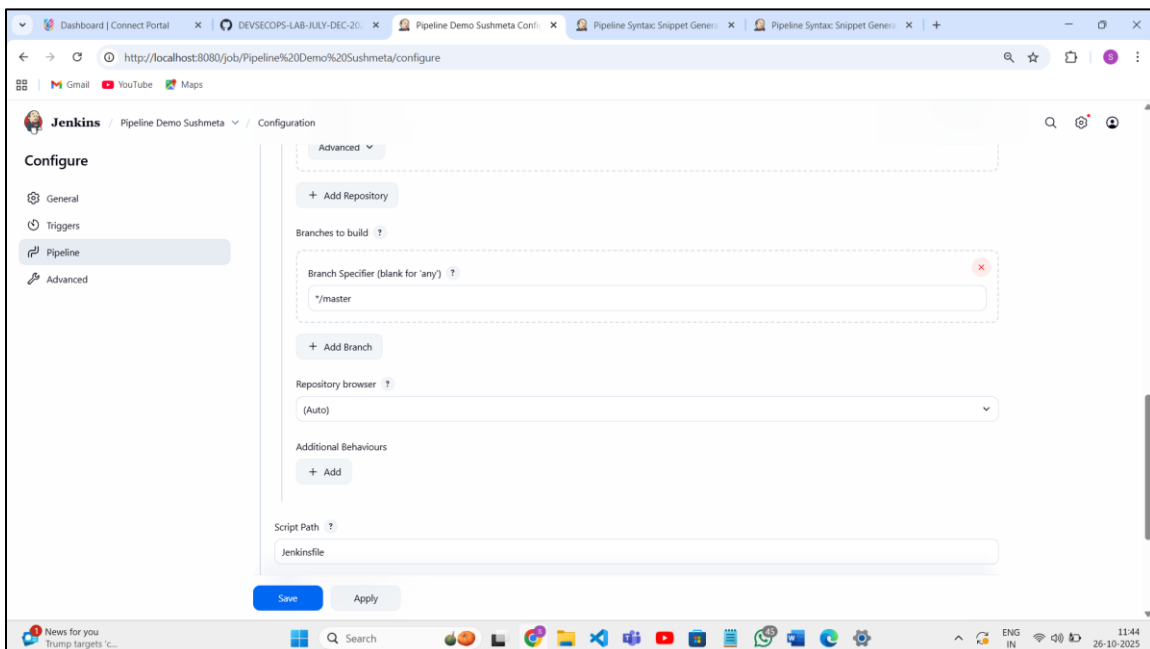
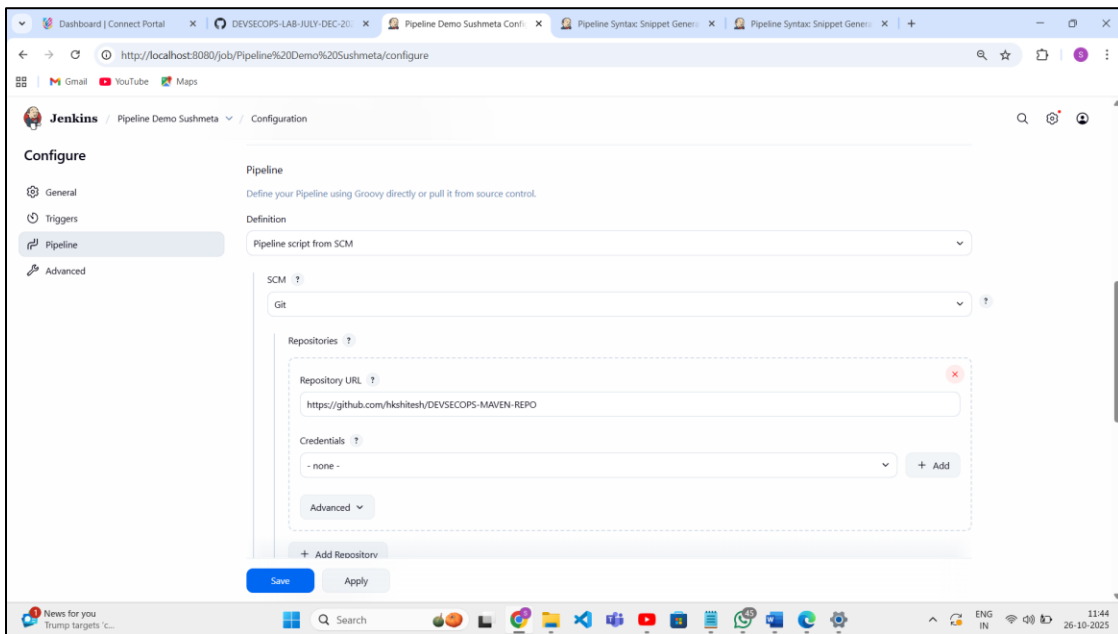
1.7 Hover over the milliseconds number next to the build stage name as shown in the screenshot below:

1.8 Check for the message in the top-left corner to confirm the successful execution of the pipeline stage as shown in the screenshot below:



Note: Ensure that you hover the cursor over the milliseconds number without clicking on it

By following these steps, you have successfully created a pipeline script for automating build processes in Jenkins.



The screenshot displays the Jenkins web interface for a pipeline named 'Pipeline Demo Sushmeta'. The browser's address bar shows the URL 'http://localhost:8080/job/Pipeline%20Demo%20Sushmeta/'. The Jenkins sidebar on the left contains links for 'Status', 'Changes', 'Build Now', 'Configure', 'Delete Pipeline', 'Stages', 'Rename', 'Pipeline Syntax', and 'Credentials'. The main content area shows the 'Pipeline Demo Sushmeta' page with a green checkmark icon, indicating a successful build. Below this, there's a 'Permalinks' section listing recent builds with their status and timestamps. At the bottom, a 'Builds' section shows a list of builds for today, including build #5 at 11:41 AM, #4 at 11:35 AM, #3 at 11:35 AM, #2 at 11:34 AM, and #1 at 11:06 AM. The browser's taskbar at the bottom shows the system clock as 11:43 on 26-10-2025, and the weather as 27°C Sunny.