

Lab Exercise 20

Creating a Pipeline Script

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Batch: Devops B1

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

Tools required: Jenkins

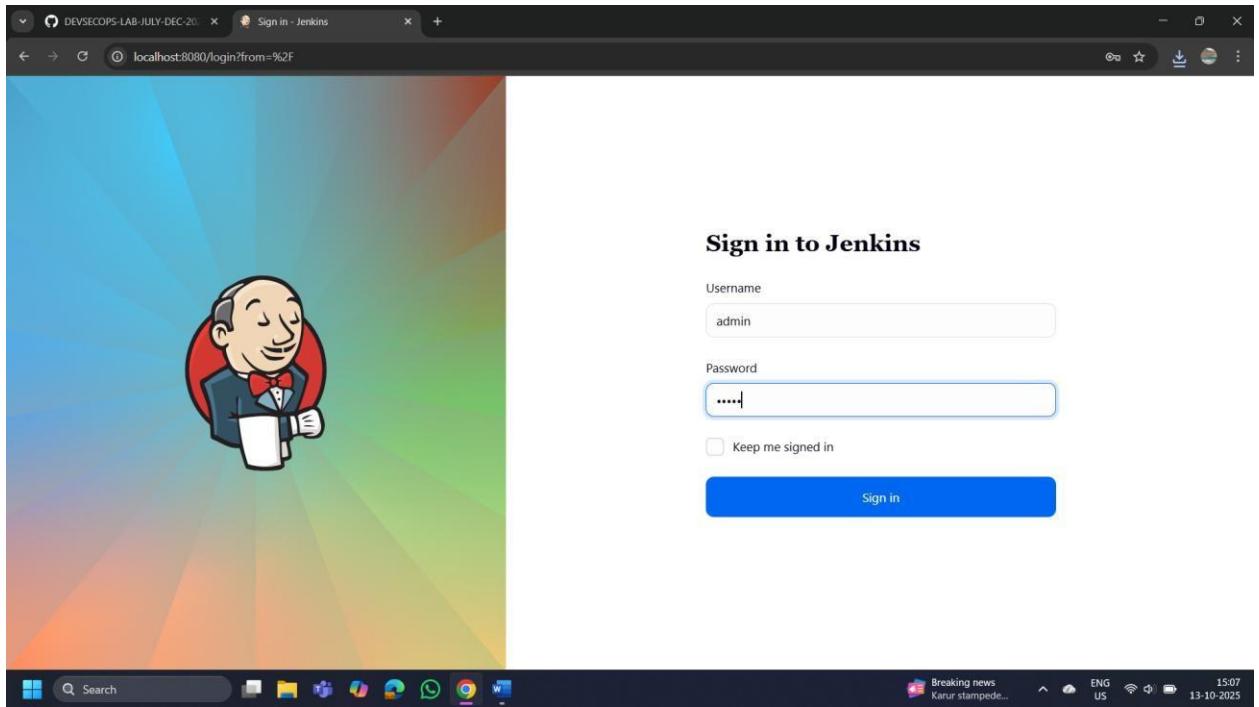
Prerequisites: None

Steps to be followed:

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

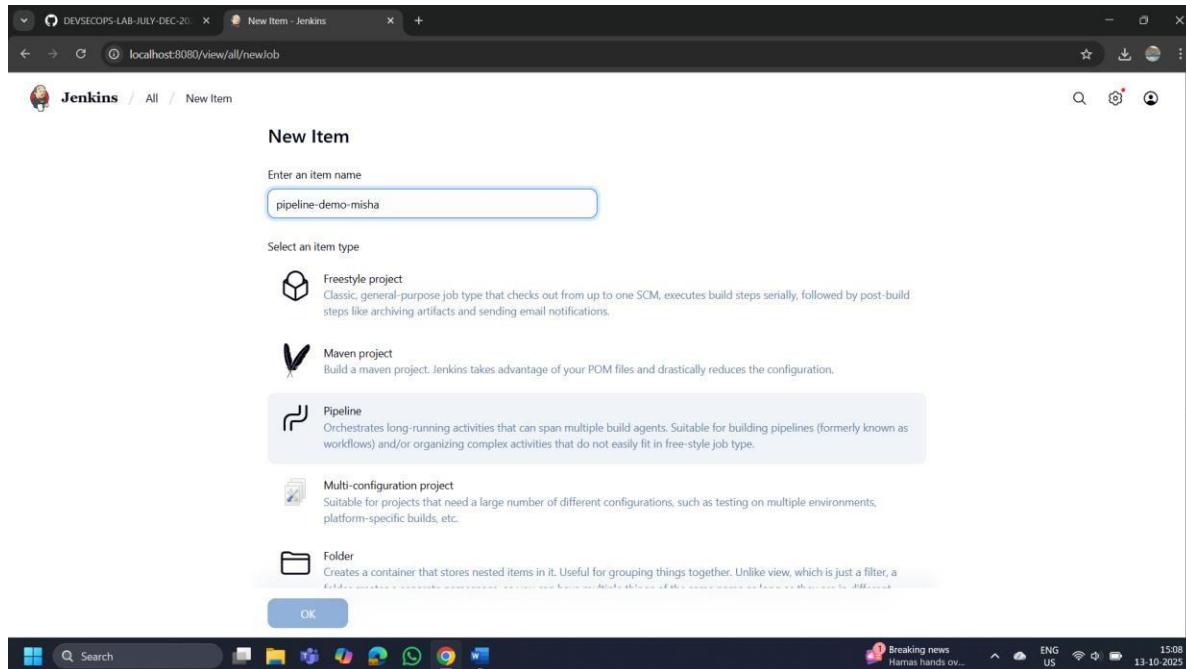
Step 1: Log in to the Jenkins CI tool and create a pipeline script

- 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**

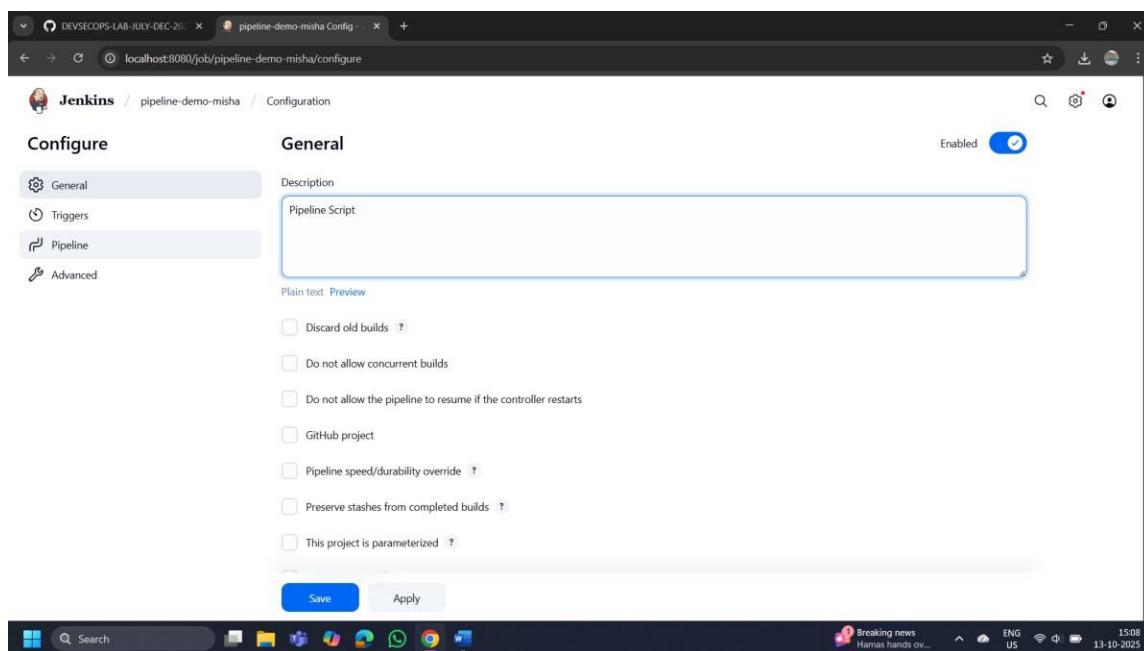


1.2 Click on the New Item option as shown in the screenshot below:

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

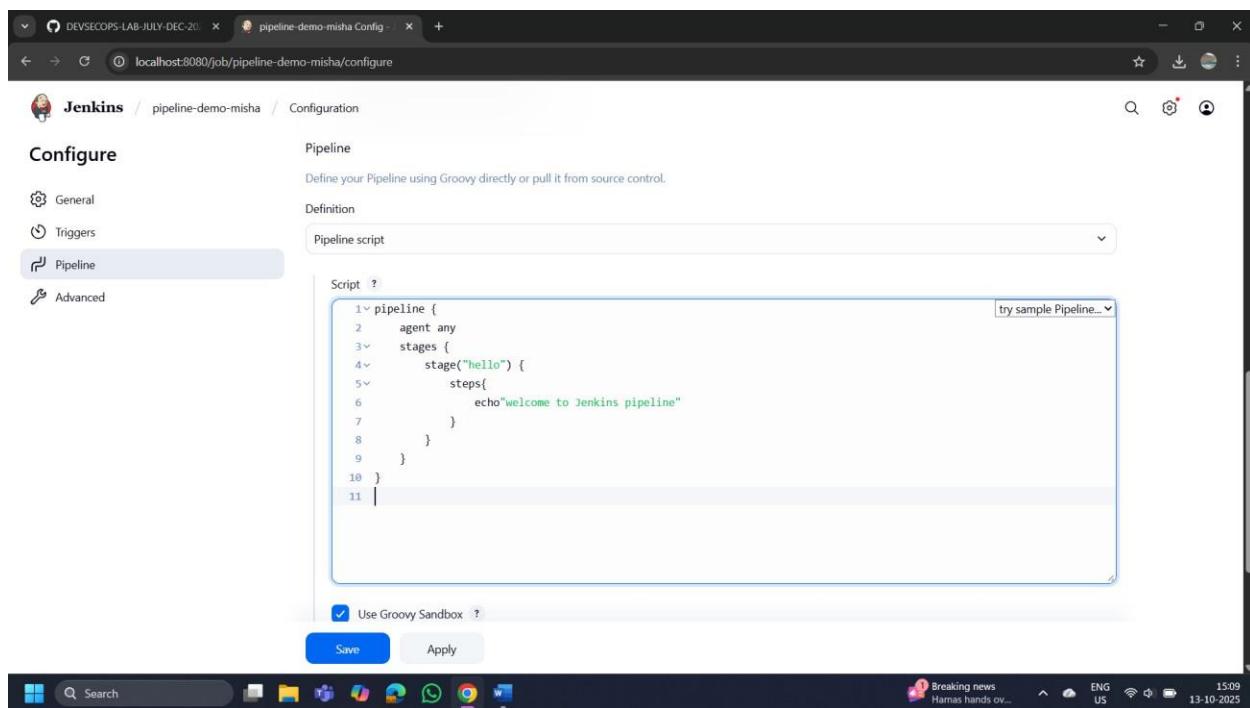


1.4 Click on Pipeline as shown in the screenshot below:

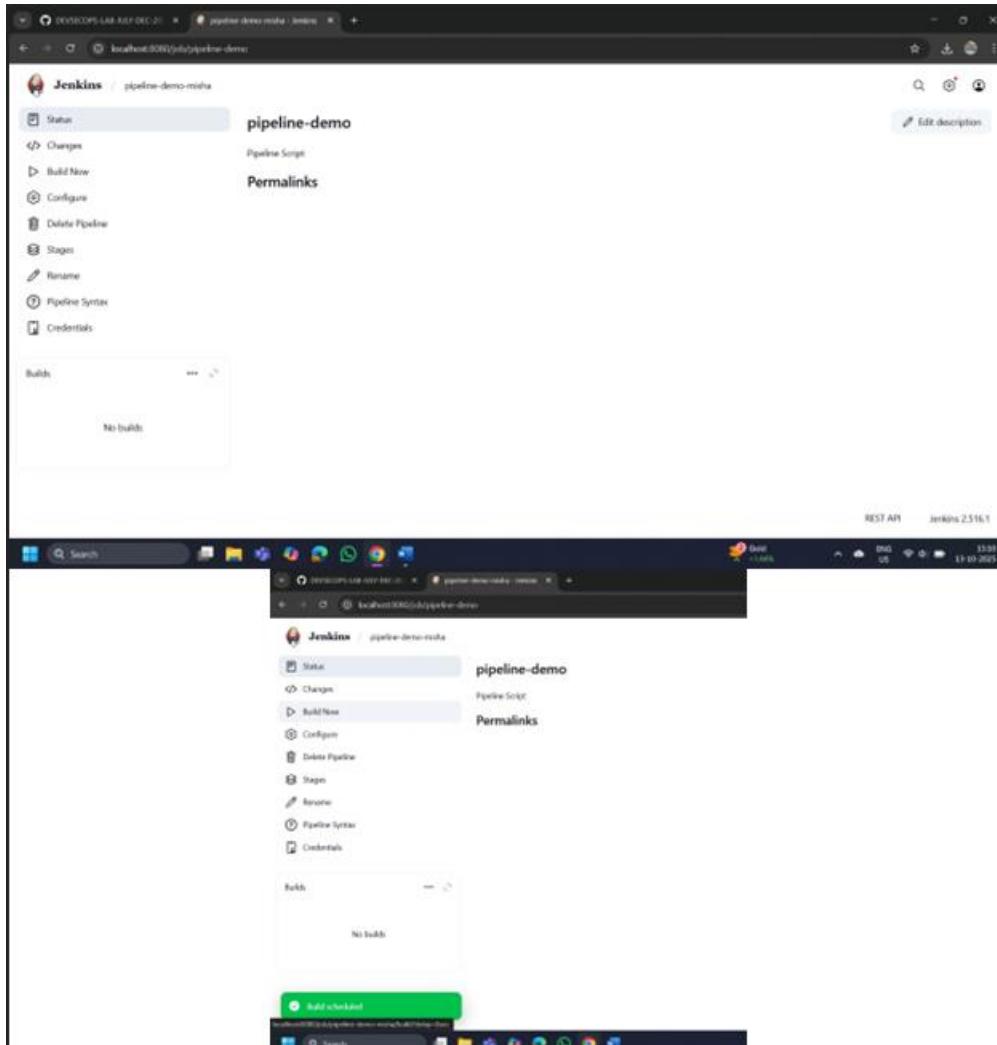


1.5 Enter the following pipeline script in the script editor and click on Save as shown in the screenshot below:

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



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:

A screenshot of a web browser showing the Jenkins Pipeline Demo job. The pipeline status is green with a checkmark. On the left, there's a sidebar with various Jenkins management links like Status, Changes, Build Now, Configure, Delete Pipeline, etc. The main area is titled "Stage View" and shows a single stage named "Success hello". A tooltip is displayed over the "191ms" duration, which includes the text "Average stage times: (full run time: ~3s)". Below the stage view, there's a "Permalinks" section with a list of recent builds.

1.8

1.9 Click on Logs as shown in the screenshot below:

A screenshot of a web browser showing the Jenkins Pipeline Demo job. The pipeline status is green with a checkmark. The main area is titled "Stage Logs (hello)" and displays the log message "welcome to Jenkins pipeline". Below the logs, there's a "Stage View" section showing the same "Success hello" stage with its duration. A tooltip is displayed over the "191ms" duration, which includes the text "Average stage times: (full run time: ~3s)". Below the stage view, there's a "Permalinks" section with a list of recent builds. At the bottom right of the browser window, the Jenkins version "Jenkins 2.516.1" is visible.

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

The screenshot shows the Jenkins Stage View for a pipeline named "hello". At the top left, there is a "Stage Logs (hello)" section containing a log entry: "Print Message -- welcome to Jenkins pipeline (self time 16ms)". Below this, the main "Stage View" area has a "Build Now" button, a "Configure" link with a gear icon, a "Delete Pipeline" link with a trash bin icon, and a "Full Stage View" link with a magnifying glass icon. In the bottom right corner of the Stage View area, the word "hello" is displayed.

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