

## Lab Exercise 20

### Creating a Pipeline Script

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

**Tools required:** Jenkins

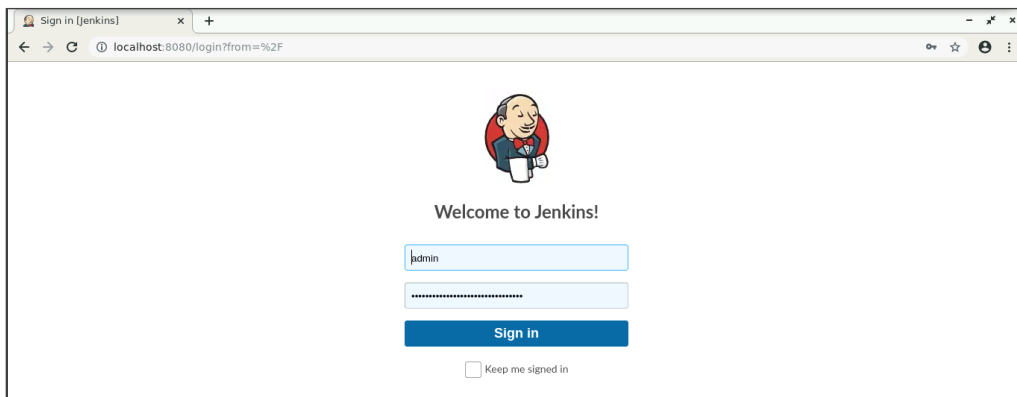
**Prerequisites:** None

Steps to be followed:

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

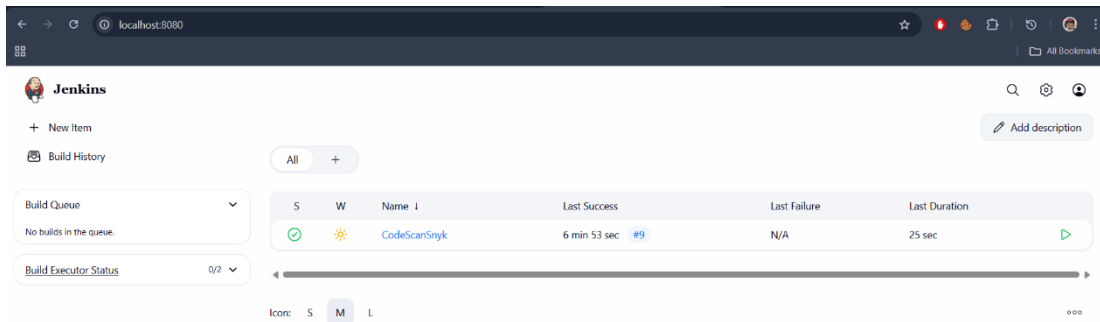
#### Step 1: Log in to the Jenkins CI tool and create a pipeline script

- 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

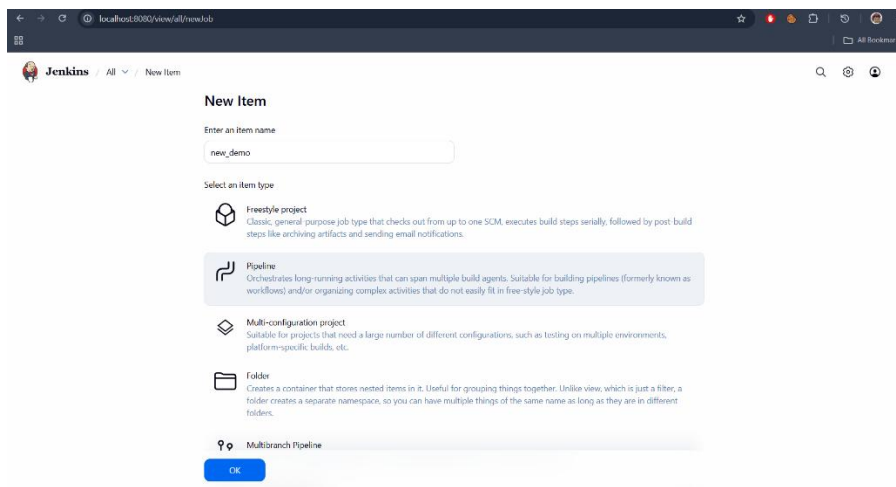


**Note:** The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

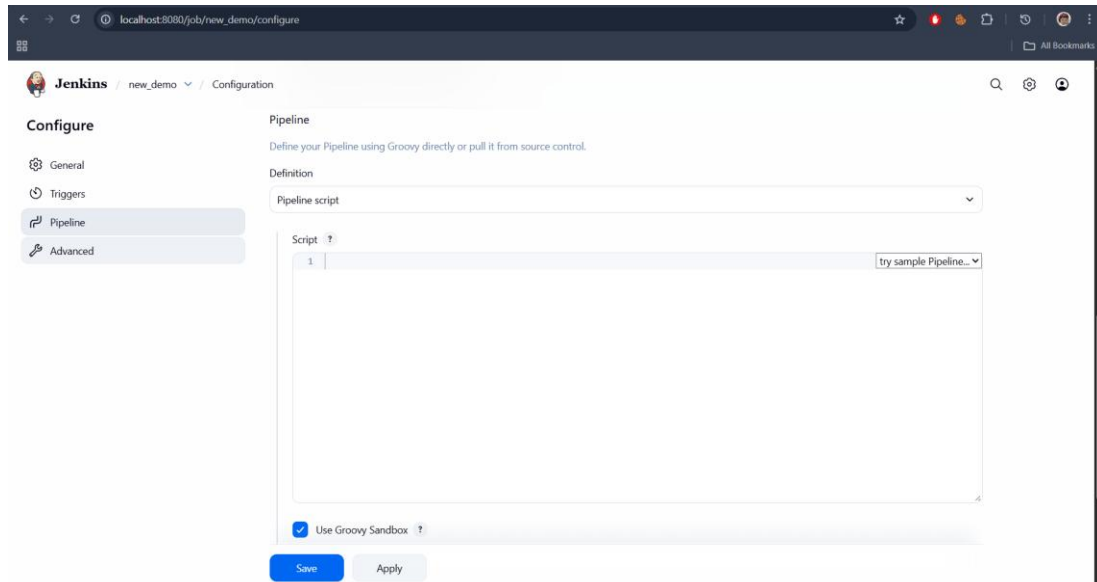
- 1.2 Click on the **New Item** option as shown in the screenshot below:



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

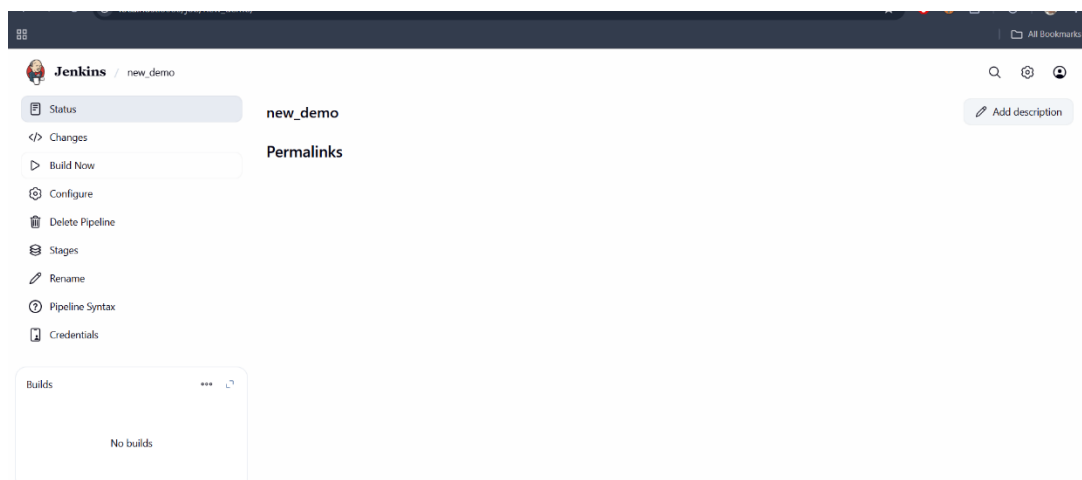
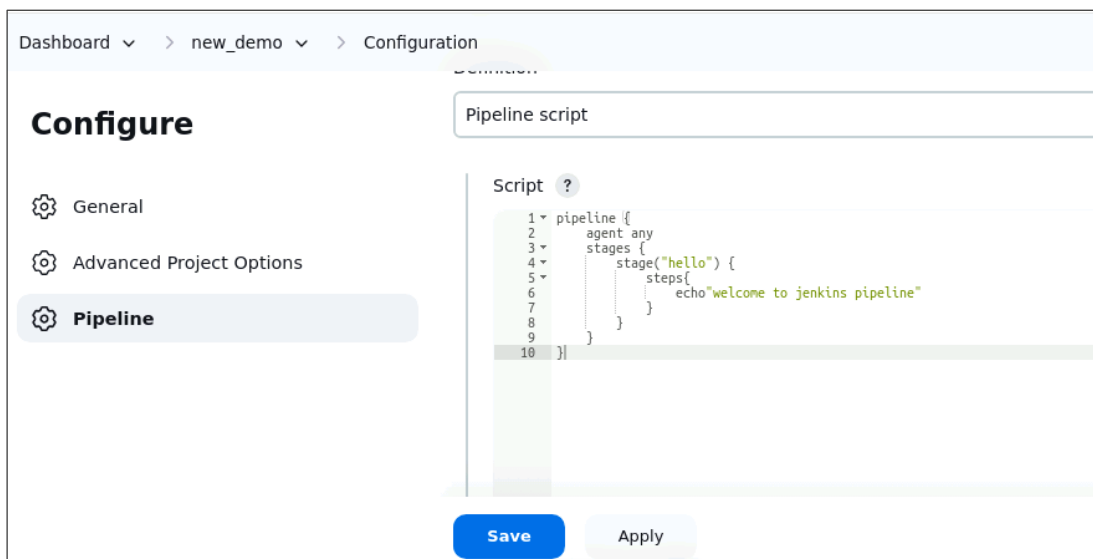


1.4 Click on **Pipeline** as shown in the screenshot below:



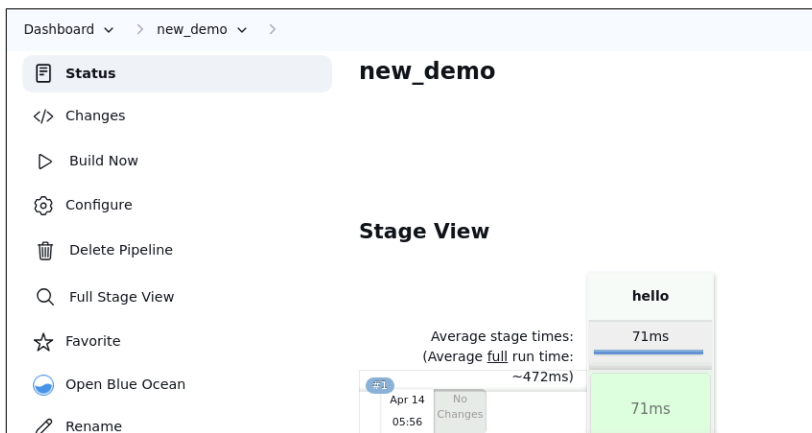
1.5 Enter the following pipeline script in the script editor and click on **Save** as shown in the screenshot below:

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



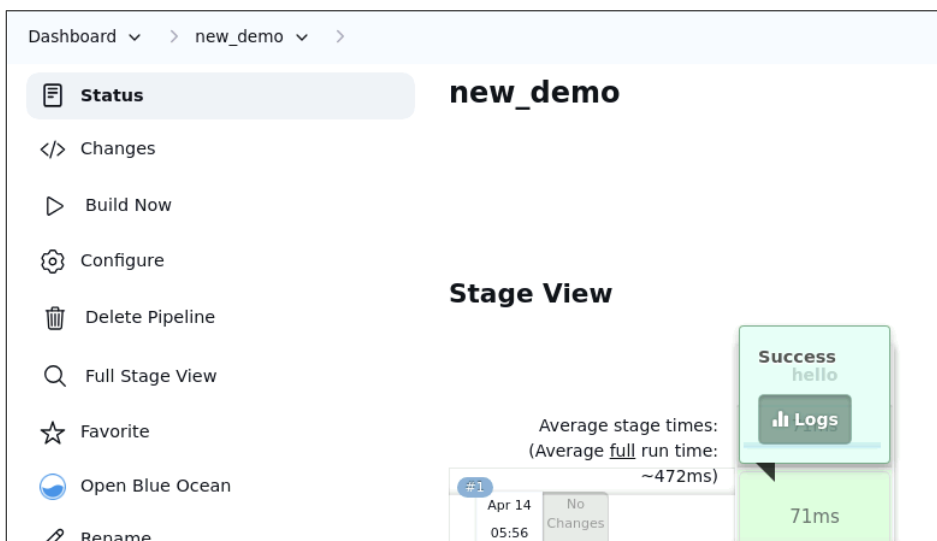
Click on **Build Now** to run the pipeline script as shown in the screenshot below:

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



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

1.7 Click on **Logs** 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:

The screenshot displays the Jenkins Pipeline Overview page for a pipeline named 'new\_demo'. The pipeline is currently at stage '#3', which is marked with a green checkmark, indicating successful completion. The stage was manually run by 'shweta pant' and started 8 minutes and 58 seconds ago. It was queued for 3 milliseconds and took 0.79 seconds to execute. The pipeline graph shows a linear flow from 'Start' to 'hello' (the current stage) and finally to 'End'. Below the graph, a search bar is visible. The stage list shows the 'hello' stage with a duration of 71ms. The build log for the 'hello' stage shows the message 'welcome to Jenkins pipeline'.

Jenkins / new\_demo / #3 / Pipeline Overview

Manually run by shweta pant Started 8 min 58 sec ago Queued 3 ms Took 0.79 sec

Graph

Start hello End

hello 71ms

welcome to Jenkins pipeline

Jenkins 2.528.2

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