Lab Exercise 20
Creating a Pipeline Script
PART 2

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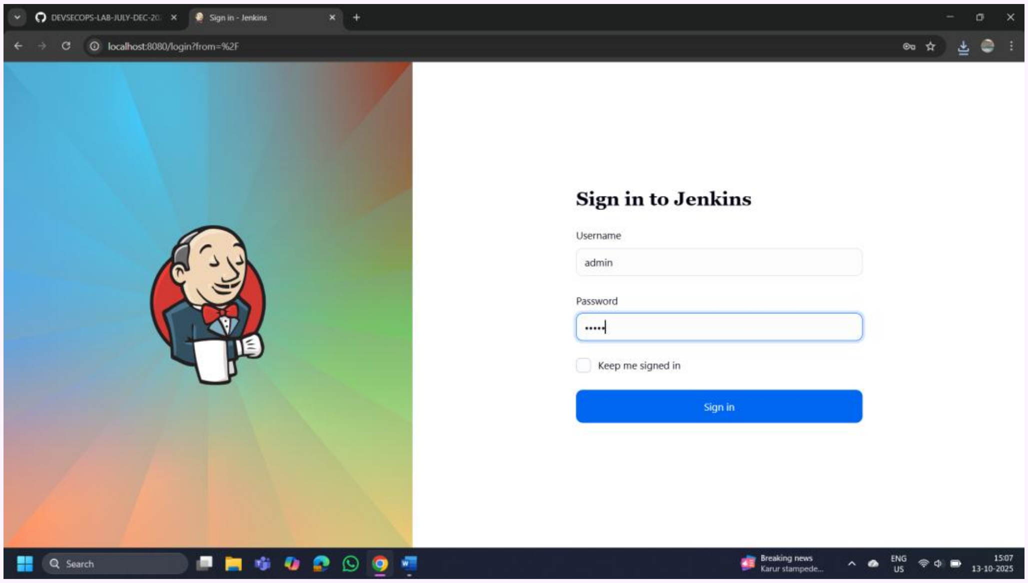
Objective: To create a pipeline script for automating build processes in Jenkins
Tools required: Jenkins
Prerequisites: None

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



Sign in to Jenkins

Username: admin

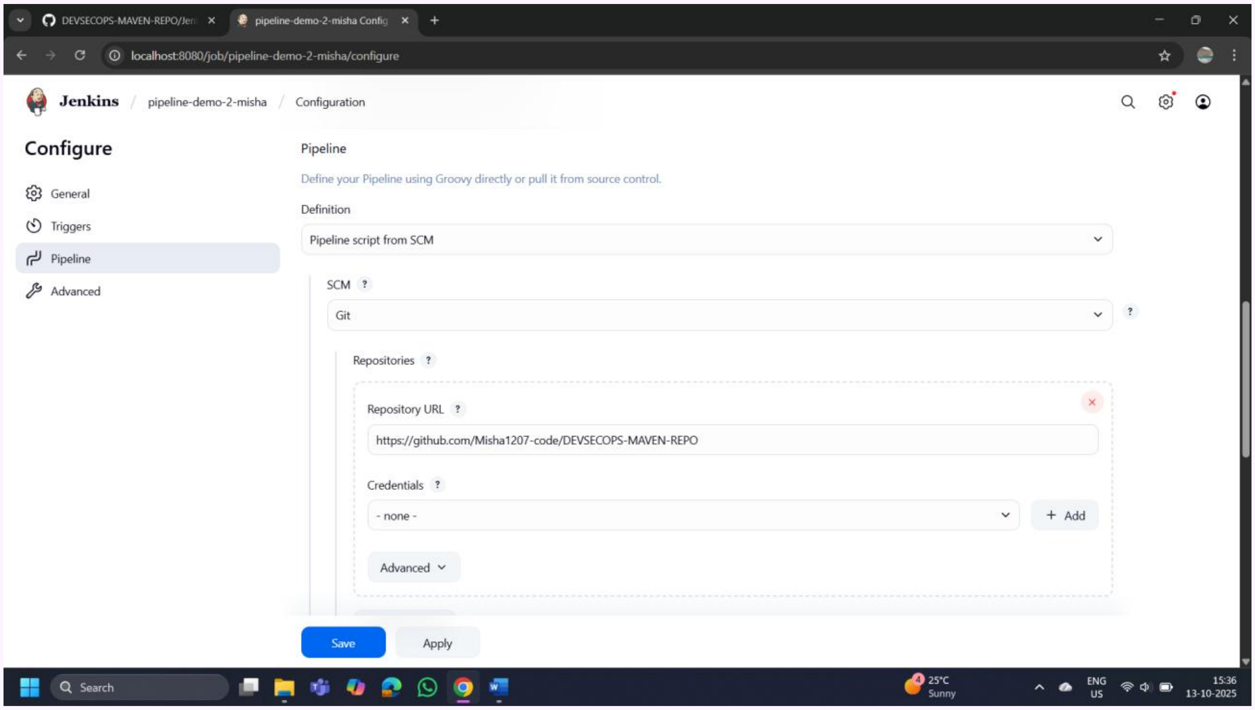
Password: •••••

□ Keep me signed in

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:



localhost:8080/job/pipeline-demo-2-misha/configure

Jenkins / pipeline-demo-2-misha / Configuration

Configure

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition: Pipeline script from SCM

SCM: Git

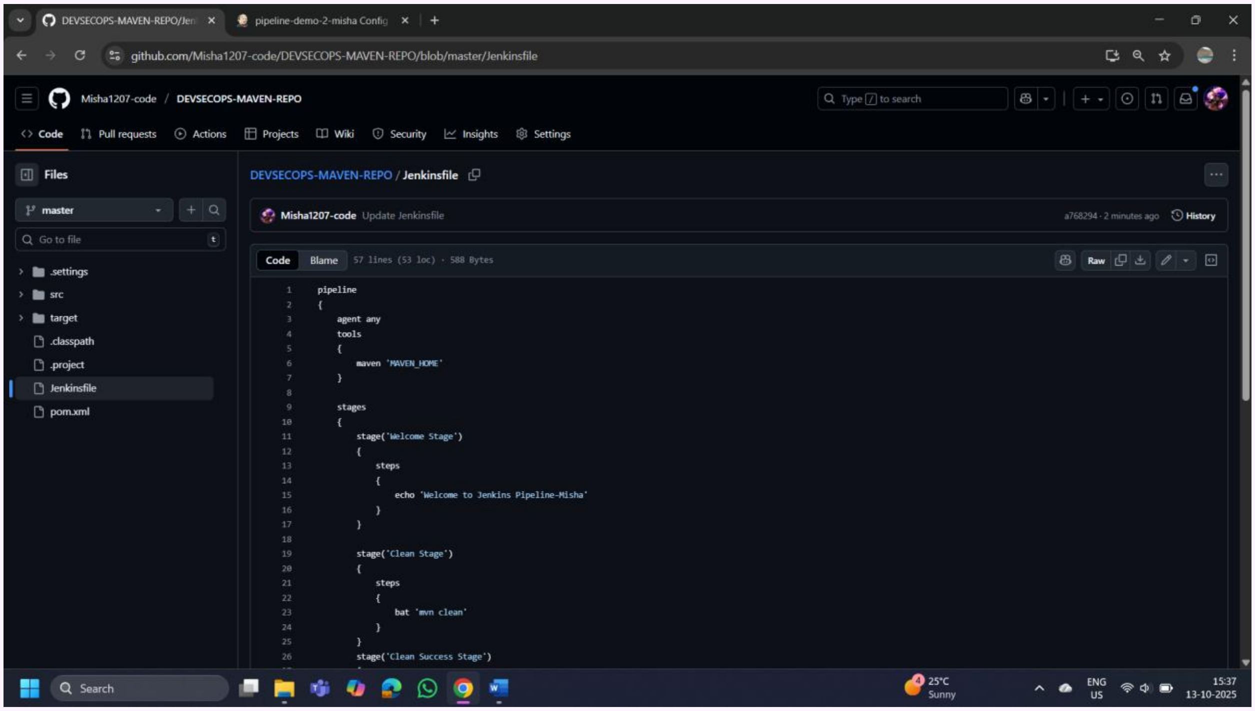
Repositories

Repository URL: https://github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO

Credentials: - none -

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"
      }
    }
  }
}
```

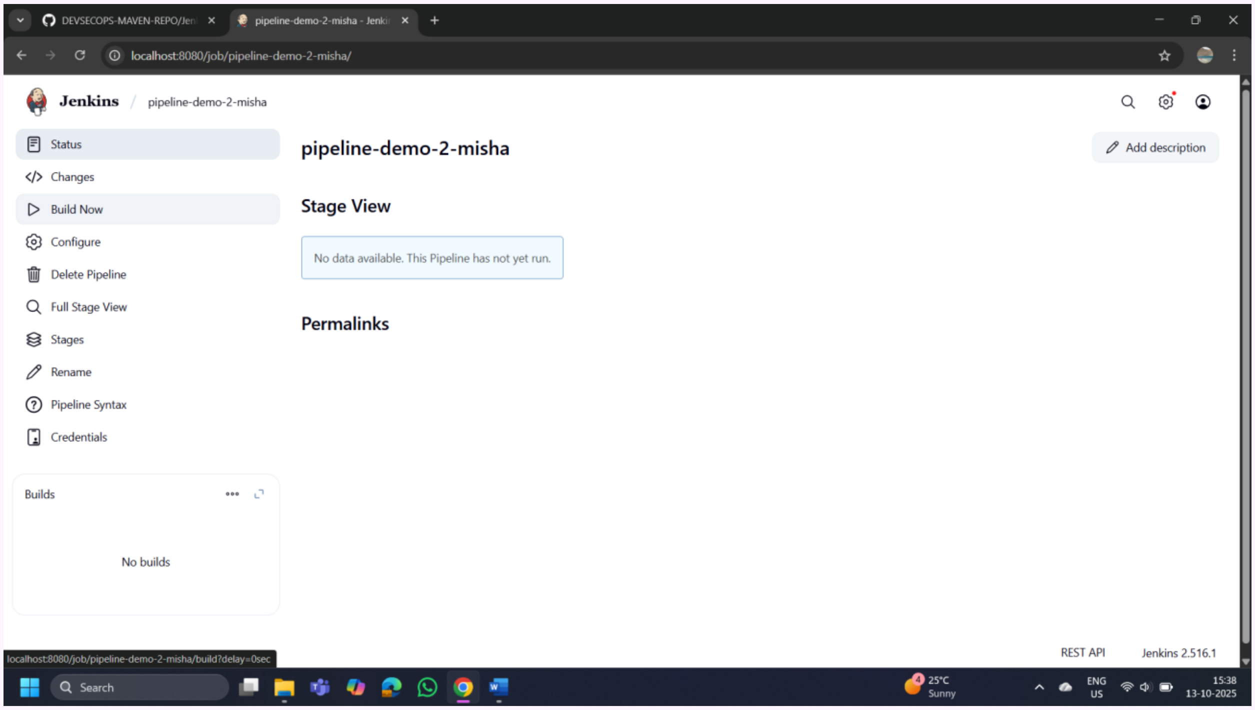


```
pipeline
{
    agent any
    tools
    {
        maven 'MAVEN_HOME'
    }

    stages
    {
        stage('Welcome Stage')
        {
            steps
            {
                echo 'Welcome to Jenkins Pipeline-Misha'
            }
        }

        stage('Clean Stage')
        {
            steps
            {
                bat 'mvn clean'
            }
        }
        stage('Clean Success Stage')
```

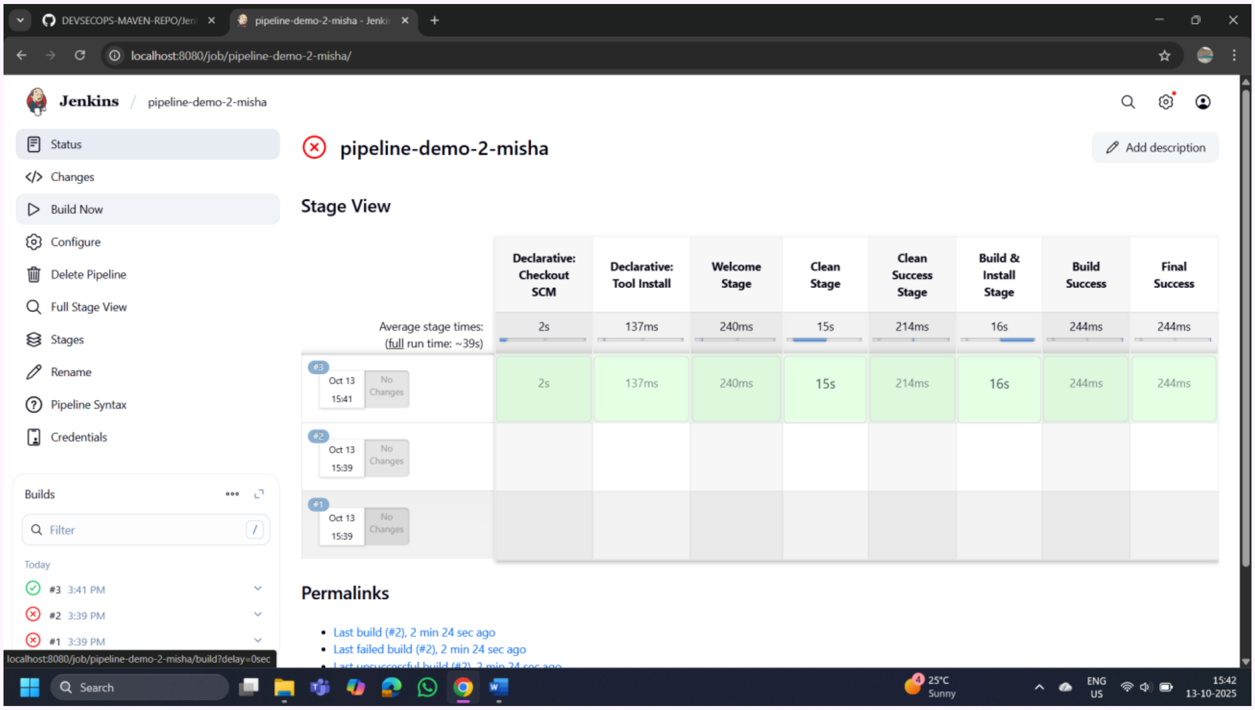
1.6 Click on **Build Now** to run the pipeline script as shown in the screenshot below:



No data available. This Pipeline has not yet run.

No builds

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



pipeline-demo-2-misha

Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	Welcome Stage	Clean Stage	Clean Success Stage	Build & Install Stage	Build Success	Final Success
Average stage times: (full run time: ~39s)	2s	137ms	240ms	15s	214ms	16s	244ms	244ms
#3 Oct 13 15:41 No Changes	2s	137ms	240ms	15s	214ms	16s	244ms	244ms
#2 Oct 13 15:39 No Changes								
#1 Oct 13 15:39 No Changes								

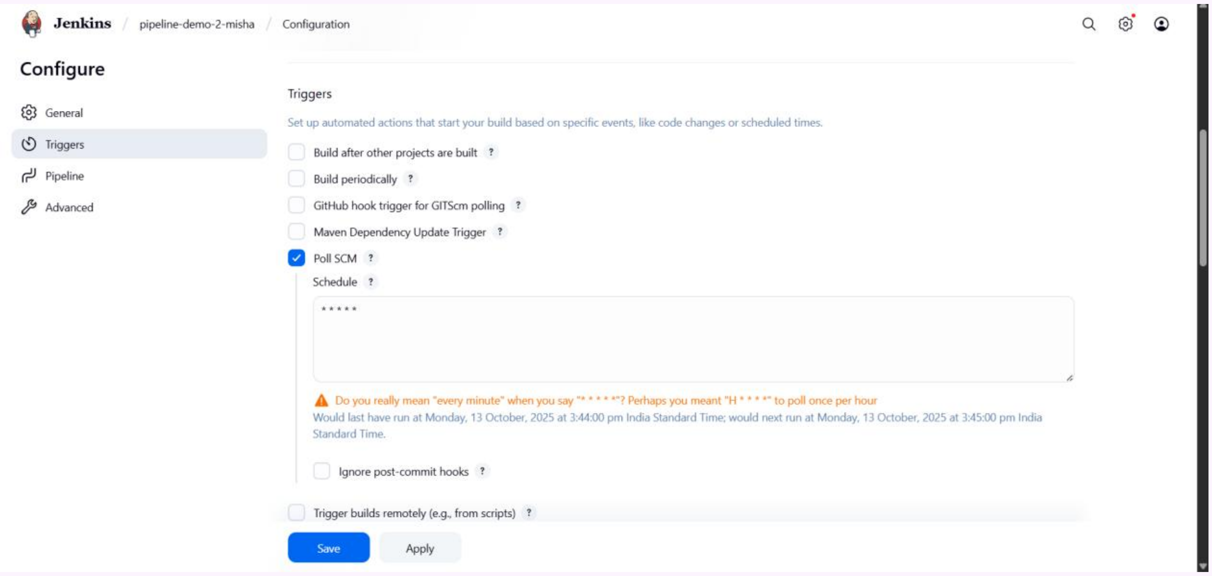
Builds
- #3 3:41 PM
- #2 3:39 PM
- #1 3:39 PM

Permalinks

- Last build (#2), 2 min 24 sec ago
- Last failed build (#2), 2 min 24 sec ago
- Last unsuccessful build (#2), 2 min 24 sec ago

□

After using POLL SCM method-



Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☐ GitHub hook trigger for GITScm polling ?
- ☐ Maven Dependency Update Trigger ?
- ☑ Poll SCM ?

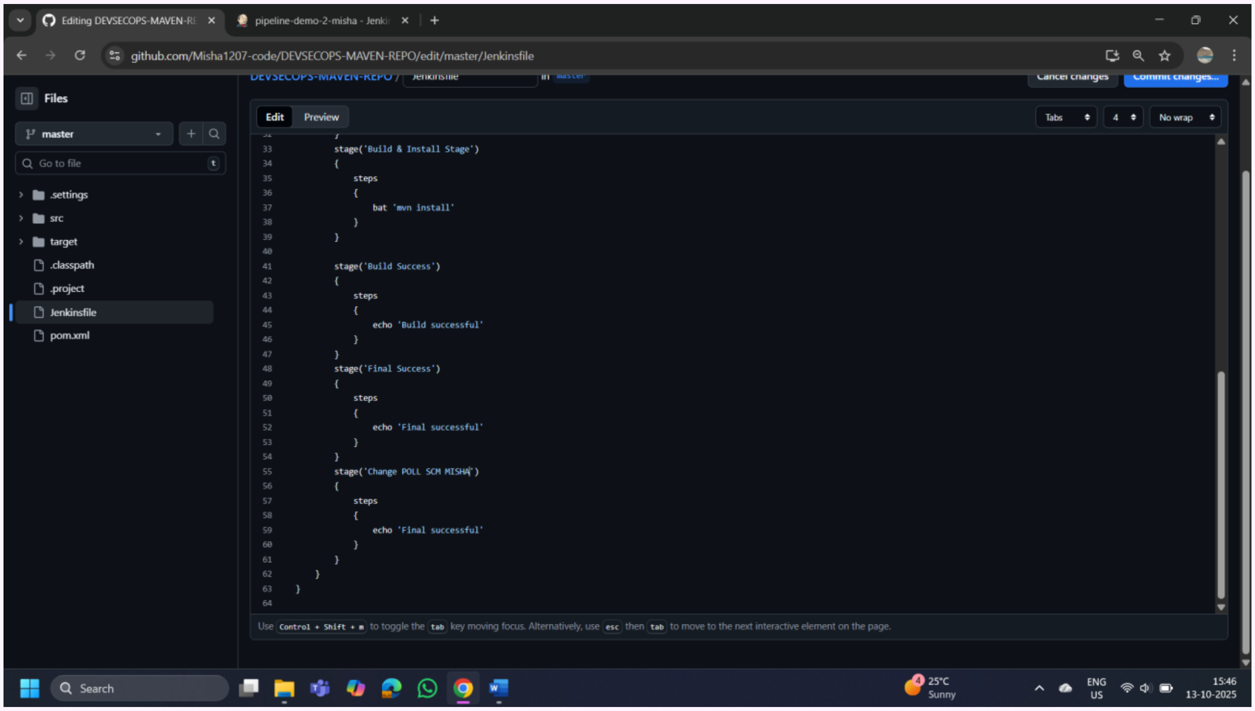
Schedule ?

```
* * * * *
```

⚠ Do you really mean "every minute" when you say "* * * * *"? Perhaps you meant "H * * * *" to poll once per hour

Would last have run at Monday, 13 October, 2025 at 3:44:00 pm India Standard Time; would next run at Monday, 13 October, 2025 at 3:45:00 pm India Standard Time.

- ☐ Ignore post-commit hooks ?
- ☐ Trigger builds remotely (e.g., from scripts) ?



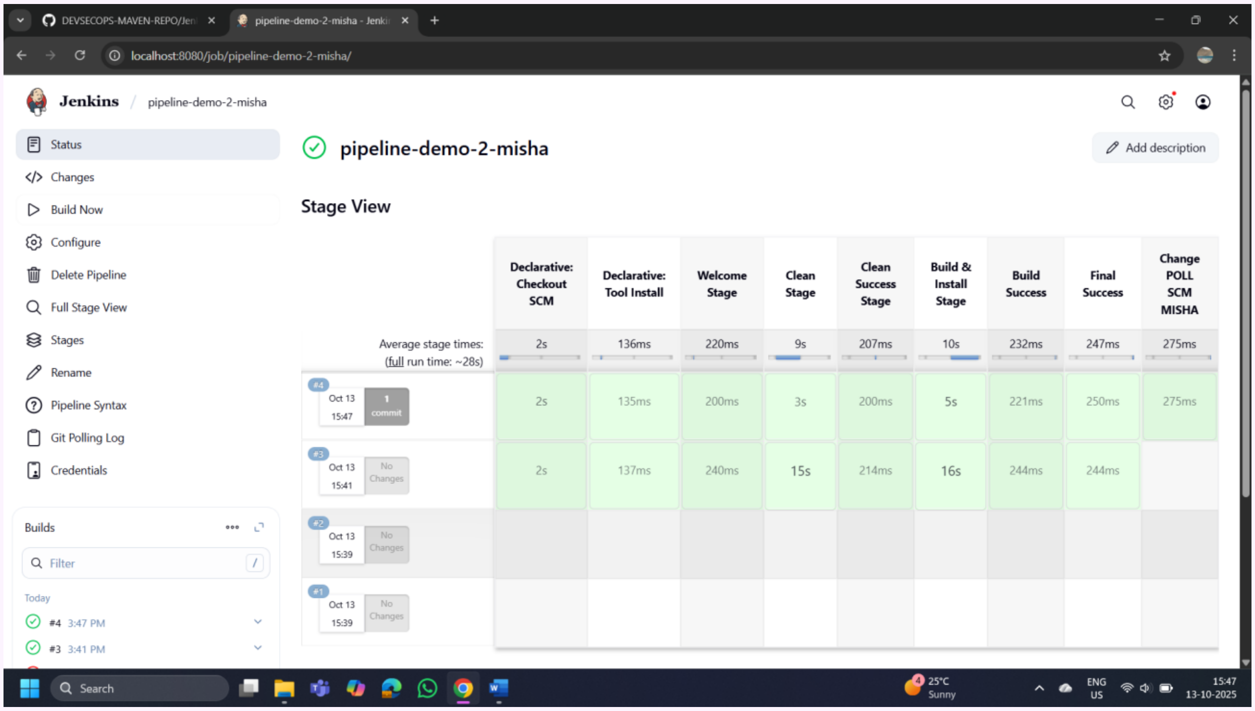
Editing DEVSECOPS-MAVEN-RE
pipeline-demo-2-misha - Jenki
github.com/Misha1207-code/DEVSECOPS-MAVEN-REPO/edit/master/Jenkinsfile
DEVSECOPS-MAVEN-REPO / Jenkinsfile in master
Cancel changes
Commit changes...
Files
master
Go to file
.settings
src
target
.classpath
.project
Jenkinsfile
pom.xml
Edit
Preview
Tabs
4
No wrap
Search

```
        stage('Build & Install Stage')
        {
            steps
            {
                bat 'mvn install'
            }
        }

        stage('Build Success')
        {
            steps
            {
                echo 'Build successful'
            }
        }
        stage('Final Success')
        {
            steps
            {
                echo 'Final successful'
            }
        }
        stage('Change POLL SCM MISHA')
        {
            steps
            {
                echo 'Final successful'
            }
        }
    }
}
```

Use `Control + Shift + m` to toggle the `tab` key moving focus. Alternatively, use `esc` then `tab` to move to the next interactive element on the page.

Final added build stage-



pipeline-demo-2-misha

Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	Welcome Stage	Clean Stage	Clean Success Stage	Build & Install Stage	Build Success	Final Success	Change POLL SCM MISHA
Average stage times: (full run time: ~28s)	2s	136ms	220ms	9s	207ms	10s	232ms	247ms	275ms
#4 Oct 13 15:47 1 commit	2s	135ms	200ms	3s	200ms	5s	221ms	250ms	275ms
#3 Oct 13 15:41 No Changes	2s	137ms	240ms	15s	214ms	16s	244ms	244ms	
#2 Oct 13 15:39 No Changes									
#1 Oct 13 15:39 No Changes									

Now we have created a new Jenkins build stage without making hardcoding changes in Jenkins- making changes in Github repo and it will automatically reflect new added stages in the next build scheduled.