

Experiment No. 1.6

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Branch: MCA - CCD

Section/Group: 22MCD-1/ Grp B

Semester: III

Subject Name: DevOps Process Automation Lab

Subject Code: 22CAP-745

1. Aim/Overview of the practical:

- Write a Scripted Pipeline to execute the build pipeline with all the 9 goals of Maven.
- Execute the Scripted Pipeline via Scripted Pipeline with SCM. Name the file as Jenkinsfile and build a pipeline.

2. Code for experiment/practical:

Write a Scripted Pipeline to execute the build pipeline with all the 9 goals of Maven.

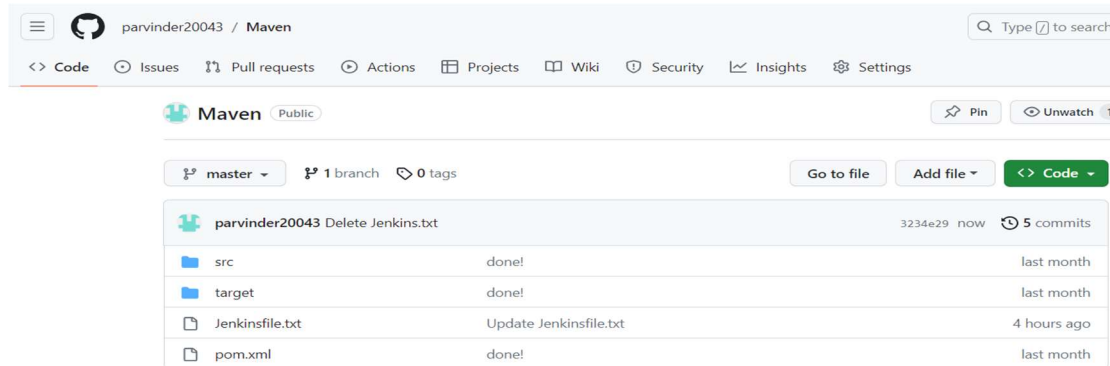
```
pipeline{
  agent any
  tools {
    maven 'M1'
  }
  stages
  {
    stage("checkout")
    {
      steps{
        git branch: 'master', url: 'https://github.com/parvinder20043/Maven.git'
      }
    }
    stage("clean_01")
    {
      steps{
        bat 'mvn clean'
      }
    }
    stage("validate_02")
    {
      steps{
        bat 'mvn validate'
      }
    }
  }
}
```

```
stage("compile_03")
{
  steps{
    bat 'mvn compile'
  }
}
stage("test_04")
{
  steps{
    bat 'mvn test'
  }
}
stage("package_05")
{
  steps{
    bat 'mvn package'
  }
}
stage("intergration-test_06")
{
  steps{
    bat 'mvn integration-test'
  }
}
stage("verify_07")
{
  steps{
    bat 'mvn verify'
  }
}
stage("install_08")
{
  steps{
    bat 'mvn install'
  }
}
stage("deploy_09")
{
  steps{
    bat 'mvn deploy : deploy file'
  }
}
}
```

Save this file as “Jenkinsfile”

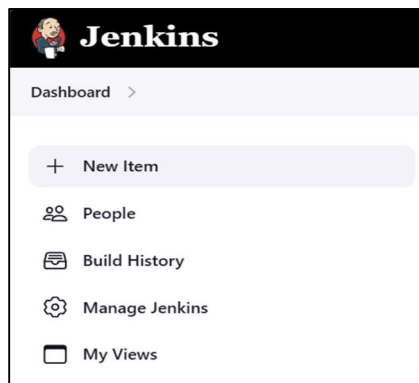
- Execute the Scripted Pipeline via Scripted Pipeline with SCM. Name the file as Jenkinsfile and build a pipeline.

Note: Make sure Jenkinsfile named file is available in Github Repository

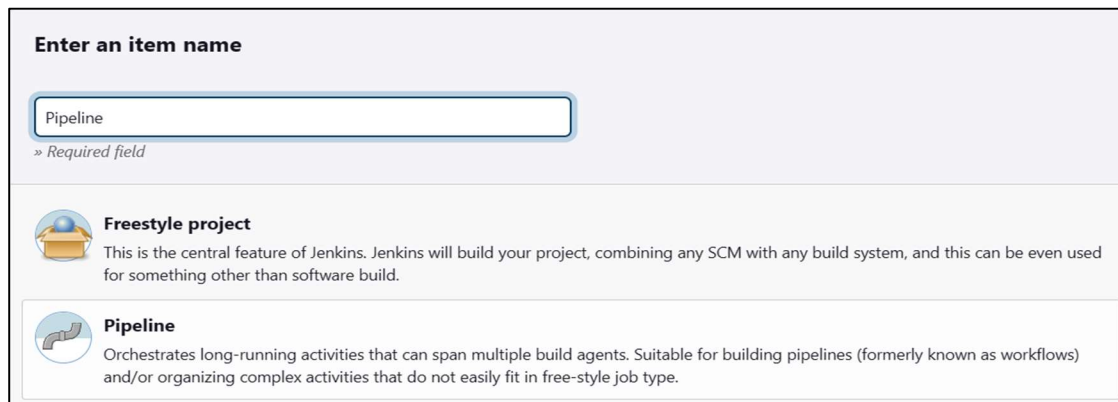


Steps to execute Scripted pipeline via Scripted Pipeline with SCM

- Click the New Item link on the left-hand side of the Jenkins dashboard.



- Enter the new project's name in the Enter an item name field and select the Pipeline. Click OK to continue.



- Under the General tab, add a project description in the Description field.

General

Enabled ☒

Description

This Job is schedule for executing scripted pipeline via Script Pipeline From SCM

- Click on Pipeline, then select Script Pipeline From SCM

Pipeline

Definition

Pipeline script from SCM

Pipeline script

Pipeline script from SCM

- Then Select Git in SCM and provide basic credentials, i.e. Repo URL, Branch etc.

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/parvinder20043/Maven.git

- At Last, provide Script Path and click apply and save.

Script Path ?

Jenkinsfile

☒ Lightweight checkout ?

[Pipeline Syntax](#)

Save
Apply

- Click on Build Now

Pipeline Pipeline

This Job is schedule for executing scripted pipeline via Script Pipeline From SCM

Edit description
Disable Project

Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	checkout	clean_01	validate_02	compile_03	test_04	package_05	intergration-test_06	verify_07	install_08
Average stage times: (Average full run time: ~1min 10s)	6s	310ms	4s	4s	4s	6s	7s	8s	7s	7s	7s
#2 Oct 17 14:47 No Changes	6s	310ms	4s	4s	4s	6s	7s	8s	7s	7s	7s