

Assignment: 6

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Aim: To build pipeline using Jenkins.

LO mapped: LO1, LO3

Theory:

- Setting up Jenkins

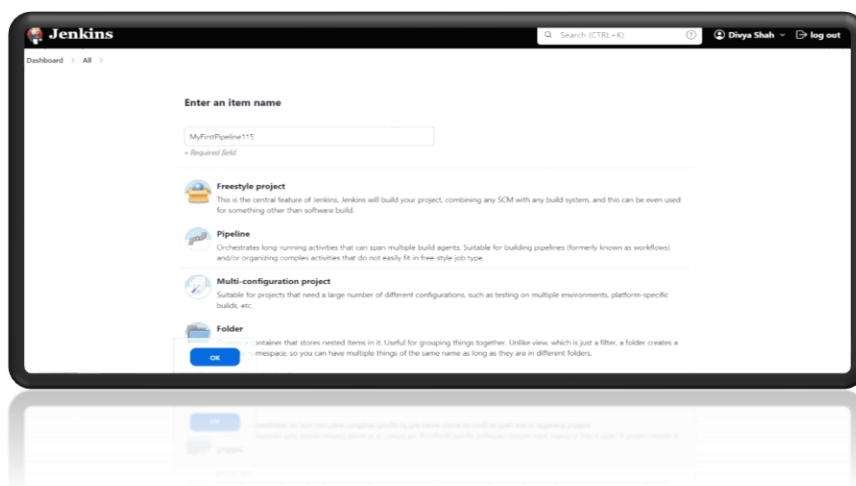
Set up the Jenkins before pipeline development

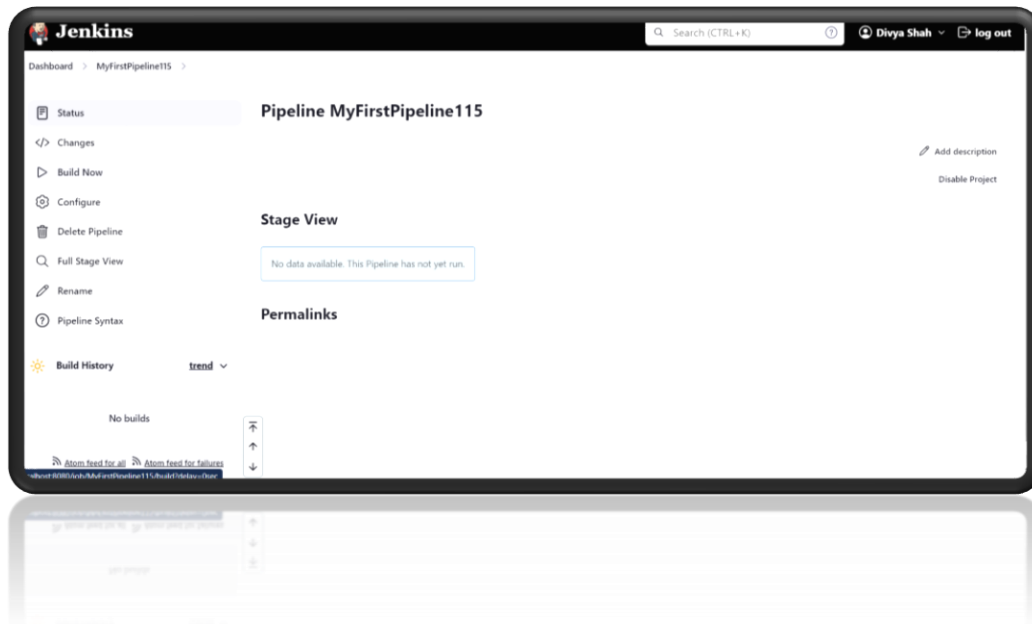
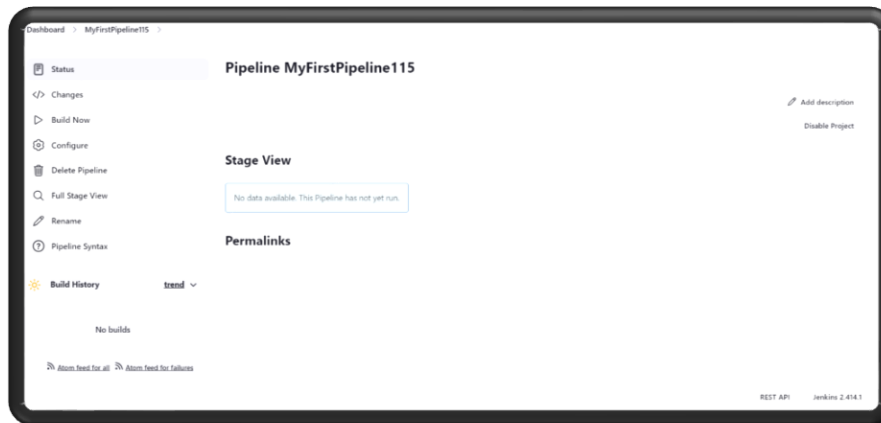
- Creating Jenkins Pipeline

A Jenkins pipeline defines the entire build process, from retrieving the source code to building, testing, and deploying an application. There are two primary ways to create Jenkins pipelines: Declarative and Scripted.

Types of Jenkins Pipelines:

- Declarative Pipeline: This type of pipeline uses a simplified and structured syntax, making it easier to read and write. It's recommended for beginners and is a great choice for most use cases.
 - Scripted Pipeline: Scripted pipelines are more flexible and powerful but use a Groovy-based DSL (Domain Specific Language). They are suitable for complex or customized build processes but require a deeper understanding of Groovy scripting.
- Follow the Steps to make a pipeline in Jenkins





Dashboard > MyFirstPipeline115 > Configuration

Configure

- General
- Advanced Project Options
- Pipeline

Pipeline

Definition

Pipeline script

```
1 * pipeline {
2   agent any
3
4   stages {
5     stage('Hello') {
6       steps {
7         echo 'Hello World'
8       }
9     }
10  }
11 }
12
```

Script ?

Use Groovy Sandbox ?

Pipeline Syntax

Save Apply

Dashboard > MyFirstPipeline115 >

Pipeline MyFirstPipeline115

Add description

Disable Project

Stage View

Average stage times:
(Average full run time: ~5s)

Stage	Time
41	21:41
42	21:41
43	21:41

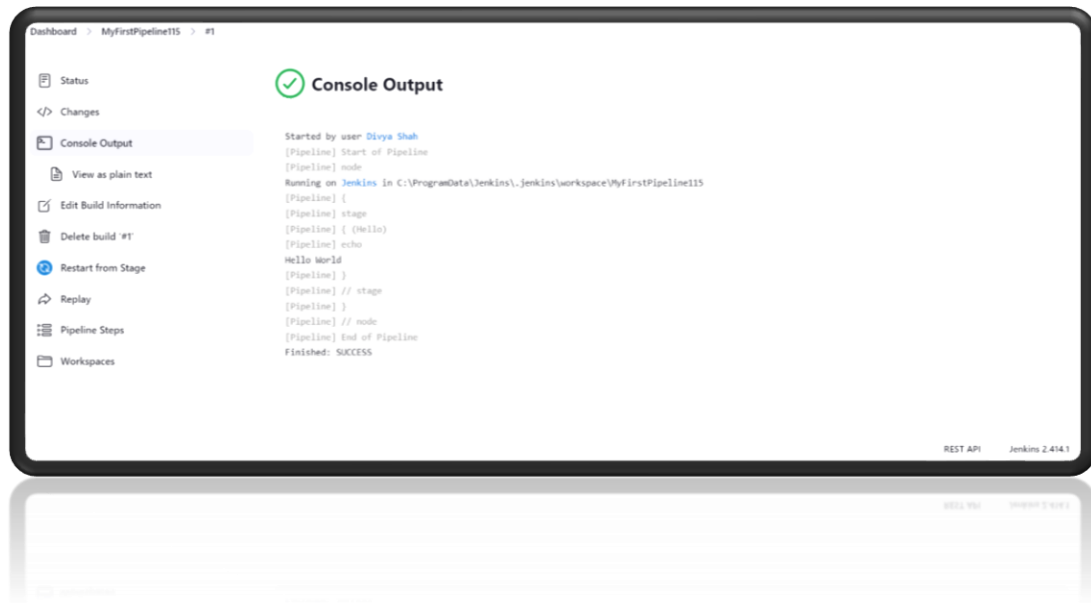
Permalinks

REST API Jenkins 2.414.1

Stage Logs (Hello)

Print Message -- Hello World (self time 16ms)

Hello World



Conclusion: By this assignment we build pipeline using Jenkins.