## Jenkins Task 2

- 1 What is Jenkins pipeline?
- 2 What scripting language is Jenkins pipeline syntax based on?
- 3 what are the different ways to trigger pipeline?
- 4 what is different between parameter and jenkins env variable?
- 5 what is organization folder job and what is used for?
- 6 Create jenkins pipeline for your repo and use script file (jenkinsfile) to write pipeline syntax, include parameter functions and env variable in it?
- 7 Create another multibranch pipeline and filter branches to contain only (master, dev, test)?

## **The Solution**

## 1 - What is Jenkins pipeline?

Jenkins Pipeline is a suite of plugins that supports the implementation and integration of continuous delivery pipelines into Jenkins. It allows you to define and manage your build, test, and deployment processes as code. Jenkins Pipeline provides a way to create workflows that can be versioned, shared, and executed in a robust and scalable manner.

2 - What scripting language is Jenkins pipeline syntax based on?

The scripting language used in Jenkins Pipeline syntax is called Groovy. Groovy is a powerful, dynamic language that runs on the Java Virtual Machine (JVM) and provides a concise and expressive syntax for writing Jenkins Pipelines.

3 - What are the different ways to trigger pipeline?

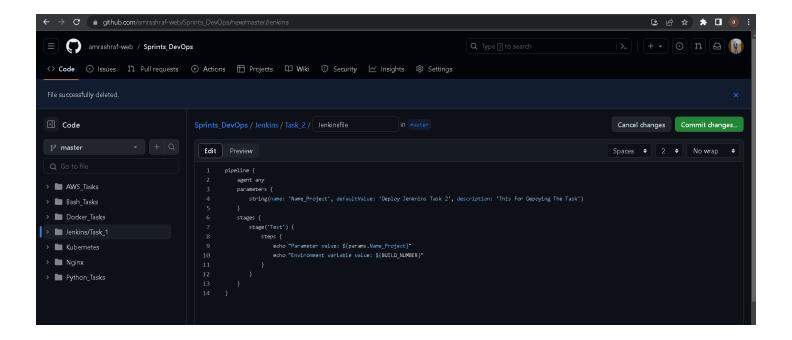
There are several ways to trigger a Jenkins Pipeline:

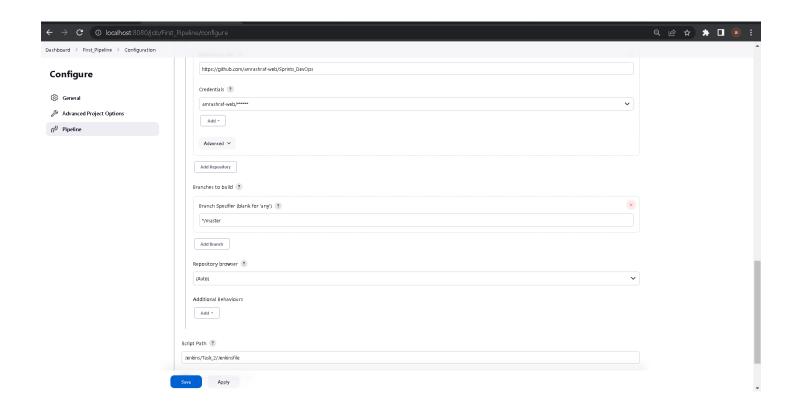
- A Triggering the pipeline manually by clicking on a button or link in the Jenkins web interface.
- B Triggering the pipeline automatically on a schedule using cron syntax.
- C Triggering the pipeline when changes are pushed to a version control system (e.g., Git) by configuring webhooks or polling.
- D Triggering the pipeline when a specific event occurs, such as a new artifact being published or an external system triggering a webhook.

- 4 What is different between parameter and jenkins env variable?
  - A Parameters in Jenkins are values that can be passed into a pipeline at runtime. They allow users to customize the behavior of the pipeline by providing input values.
  - B Jenkins environment variables, on the other hand, are predefined variables that store information about the Jenkins environment. They can be accessed and used within a pipeline to provide contextual information or configure specific behavior
- 5 What is organization folder job and what is used for ?

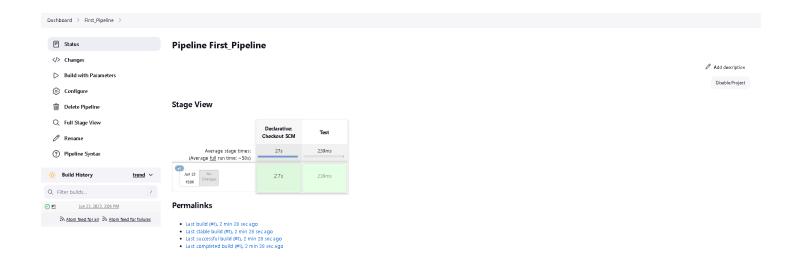
An organization folder job in Jenkins is a special type of job that allows you to organize and manage pipelines for multiple repositories or projects within a single Jenkins job. It provides a way to create and manage pipelines dynamically based on the repositories or projects present in a specified source code management system (e.g., Git).

6 - Create jenkins pipeline for your repo and use script file (Jenkinsfile) to write pipeline syntax, include parameter functions and env variable in it?



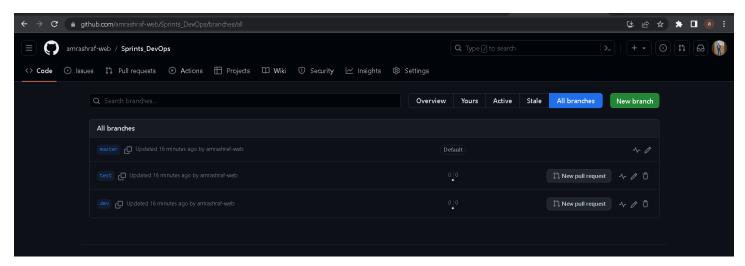






7 - Create another multibranch pipeline and filter branches to contain only (master, dev, test)?

A - create two branch ( dev , test )



## Create multi branch pipeline on jenkins with filter branch by name

