Jenkins Pipeline and Jenkins File

What is Pipeline:

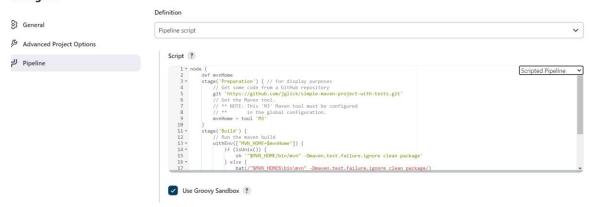
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What is Jenkins Pipeline:

- It is a way or process to perform CI-CD.
- CI-CD means continues integration and continues deployment.
- Like the build > deploy > Test > Release.
- From build to release we use the Jenkins Pipeline for CI-CD.

What is Jenkins file:

- In this we write a code/script to implement the Pipeline to run all the stages(Build > Deploy > Test > Release) correctly.
- A Jenkins file can be written in two type of syntax **Declaration and Scripted** both are written in Groovy but have a different structure.
- The **Scripted way** is old kind of technique to write a script but he **Declarative way** is new kind of technique to write a script.
- Scripted ways:



Looks like this.

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How to create Jenkins file:

- 1. Start your Jenkins.
- 2. Install pipeline plugin.
- 3. Create new jobs.
- 4. Create or get Jenkins file in Pipeline section.
- 5. And now run and check the output.

How to get Jenkins file from git:

- 1. Create a new Job or use existing Job (type: pipeline).
- 2. Create a repository in GitHub.
- 3. Add Jenkins file to the Repository.
- 4. Under Jenkins job > Pipeline section > select Pipeline script from SCM.
- 5. Add repository and Jenkinsfile location in the job under Pipeline section
- 6. Now save and run.

How to clone the Git Repository using Jenkins file:

- 1. Open the Job (type: pipeline)
- 2. In the definition section select Pipeline script
- 3. Then click on pipe line syntax
- 4. Not in steps section select git
- 5. Then all the credential.
- 6. Now click on the generate pipeline script and copy what generated.
- 7. Then paste that into "Script?".
- 8. And apply and save.
- 9. Click on build.

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