Jenkins

Lab 2

01) What is Jenkins pipeline?

- Jenkins pipeline is a collection of plugins which supports implementing and integrating continuous delivery pipelines into Jenkins. A continuous delivery pipeline is an automated expression of your process for getting software from version control right through to your users and customers.

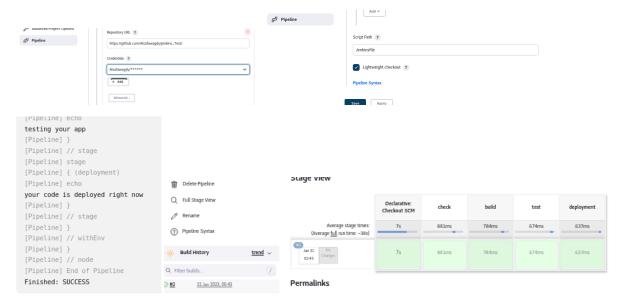
02) What scripting language is Jenkins pipeline syntax based on?

- Groovy (java-language)

03) What are the ways you can write pipeline in Jenkins?

Scripted Pipeline Declarative Pipeline A scripted pipeline uses the Groovy (JVM-The declarative pipeline follows a relatively based) language to create a pipeline as code newer syntax, which narrows the scope of the -Problems with scripted pipeline: pipeline structure through a pre-defined The imbalance between developers' "minimum necessary structure." On the experience in Groovy and Jenkins technical front, the declarative syntax follows a creates an impedance mismatch that is conditional statement logic that generates a not easy to remove. series of stages, executed sequentially Although scripted syntax is powerful throughout the pipeline's lifecycle. declarative and expedites the creation of complex pipelines don't make use of Groovy code, the pipelines, it concurrently makes the declarative syntax doesn't access valuable APIs. pipeline hard to read and hard to manage pipeline { agent any stages { stage('Build') { steps { node { stage('Build') { } } stage('Test') { stage('Test') { steps { } stage('Deploy') { stage('Deploy') { steps { } } }

04) Create jenkins pipeline for your repo and use script file (jenkinsfile) to write pipeline syntax?



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

Note: I named the main branch "main" not "master

