



MARCH 1, 2023

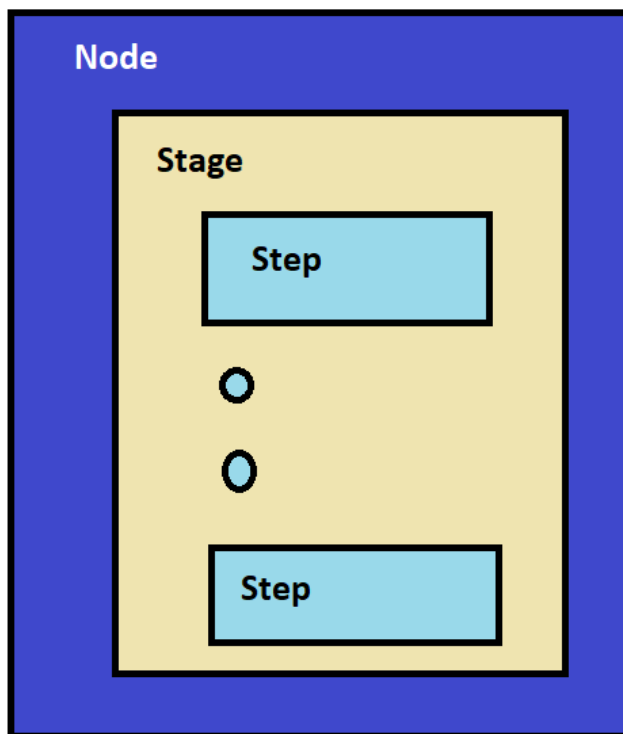
DevOps Classroomnotes 01/Mar/2023

Pipeline as Code (PAC)

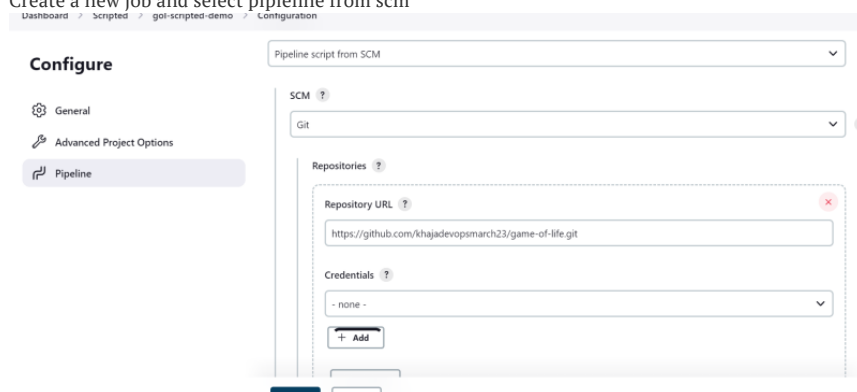
- Pipeline as a code allows us to define CI/CD in a text document in any version control system
- CI/CD Pipeline when expressed as PAC will be present in git.
- Jenkins has started supporting Pipelines with
 - Scripted Pipelines
 - Declarative Pipelines

Scripted Pipelines

- A pipeline can be defined in any file but Jenkinsfile is most widely used name.
- The structure of Pipeline in scripted is as shown below



- Jenkins will have a set of steps which will be part of default jenkins installation and rest of steps can be added to jenkins by installing plugins
- Jenkins Pipeline steps reference [Refer Here](#)
- Lets build a scripted pipeline for game of life
- Step: Clone the code using git pipeline [Refer Here](#)
- [Refer Here](#) for changes
- Create a new job and select pipeline from scm



Configure

General

Advanced Project Options

Pipeline

Branches to build

Branch Specifier (blank for 'any')

*scripted

Add Branch

Repository browser

(Auto)

Additional Behaviours

Add

Script Path

Jenkinsfile

☒ Lightweight checkout

Pipeline Syntax

Save

Apply

Jenkins

Search (CTRL+K)

Dashboard

Scripted

gol-scripted-demo

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Build History

trend

Filter builds...

#1 Mar 1, 2023, 3:17 AM

Atom feed for all

Atom feed for failures

Pipeline gol-scripted-demo

Stage View

Average stage times

Average full run time: ~21s

#1 Mar 01 08:47 No Changes

version control

12s

12s

Permalinks

Last build (#1), 21 sec ago

Last stable build (#1), 21 sec ago

- Build the pipeline and you should be able to see the stage wise logs.
- [Refer Here](#) for the next set of changes.
- Build the project and view the project post refresh after success

Dashboard

Scripted

gol-scripted-demo

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Build History

trend

Filter builds...

#1 Mar 1, 2023, 3:17 AM

#6 Mar 1, 2023, 3:29 AM

#5 Mar 1, 2023, 3:20 AM

#4 Mar 1, 2023, 3:20 AM

#3 Mar 1, 2023, 3:20 AM

#2 Mar 1, 2023, 3:20 AM

#1 Mar 1, 2023, 3:17 AM

Last Successful Artifacts

gameoflife.war

3.04 MB

view

58

Test Result Trend

Passed

Skipped

Failed

57

#7

Stage View

Average stage times

Average full run time: ~9s

#7 Mar 01 09:01 1 commit

version control

3s

3s

build the code

22s

22s

archive the artifacts

1s

1s

show the test results

734ms

734ms

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