Devops =>

CI => Continuous Integration => Development -> Application Test -> Integration Test

CD => Continuous Delivery => Development -> Application Test -> Integration Test -> Acceptance Test

After the acceptance test, delivery happens

CD => Continuous Deployment => Application Test -> Integration Test -> Acceptance Test-> Production/Deployment

GITLAB Runner => CI =>

It is a build instance, which is used to run jobs in a pipeline, sends the results to the Gitlab

GITLAB Runner basic steps

PRE-REQUISITES: GIT Bash, in your local system

1. Create a login in GitLab
2. Create an empty project in GitLab

Example: MyProject1

1. Download GitLab runner from

https://docs.gitlab.com/runner/install/windows.html

1. Create a folder GitLab-Runner in c drive
2. Copy the GitLab runner exe into this folder. Rename the exe file as gitlab-runner.exe
3. Open command prompt in c:\GitLab-Runner path with administrative rights and try the following to install gitlab-runner
   1. gitlab-runner.exe install
   2. gitlab-runner.exe –version
4. Registering gitlab runner
   1. Open git bash, type the following
      1. ssh-keygen
      2. Keep pressing enter key for all the options, a key will be generated
      3. Go to gitlab => settings => SSH Key , paste the key generated in the previous step => Add key
      4. In cmd type:
         1. Gitlab-runner.exe register
         2. Instance name: gitlab url ,hinted there, can be given
         3. Registration token: copy the registration token from

Gitlab-> your project->settings->CI/CD ->Runner -> expand, scroll down,

And paste it in the cmd

Description: my-runner1

Tags: ssh,ci

Executor: shell

1. Create .gitlab-ci.yml in the root folder of your project or repository. This file is used to configure the pipelines, defines the structure and definition.

Type the following in the file.

demo\_job1:

tags:

- ci

script:

- echo "Hello All"

**NOTE: Avoid tab keys. Use proper spaces.**

Commit and push the .yml file

git status

git add .

git status

git commit -m “added .gitlab-ci.yml”

git push -u origin master

git push -u <https://gitlab.com/VijayaS/myfirstproject.git> master

1. Starting the GitLab Runner

gitlab-runner.exe start

1. Make any changes in the project -> commit -> push

Example:

git status

touch sample.txt

git add sample.txt

git status

git commit -m “added sample.txt”

git push -u origin master

git push -u <https://gitlab.com/VijayaS/myfirstproject.git> master