01) What is Jenkins used for?

Jenkins is an open source continuous integration/continuous delivery and deployment (CI/CD) automation software DevOps tool written in the Java programming language. It is used to implement CI/CD workflows, called pipelines.

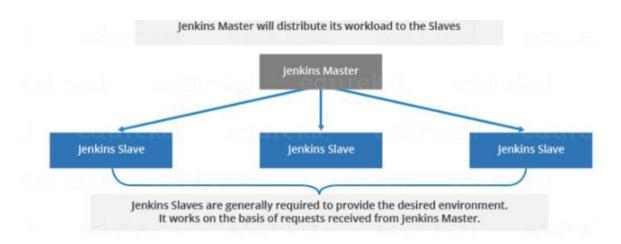
02) What is Jenkins agent?

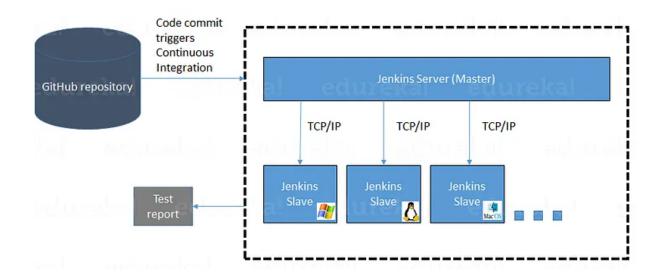
An agent is typically a machine, or container, which connects to a Jenkins controller and executes tasks when directed by the controller.

What is Jenkins executor (Build Executor)?

A Jenkins executor is one of the basic building blocks which allow a build to run on a node/agent (e.g. build server).

03) Explain Jenkins master-slave architecture?



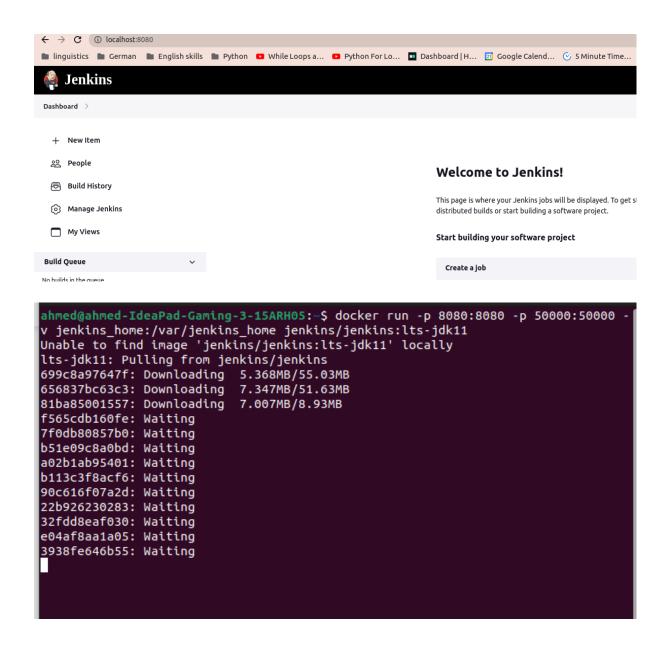


The above image represents the following functions: Jenkins checks the Git repository at periodic intervals for any changes made in the source code.

Each builds requires a different testing environment which is not possible for a single Jenkins server. In order to perform testing in different environments, Jenkins uses various Slaves as shown in the diagram.

Jenkins Master requests these Slaves to perform testing and to generate test reports.

04) Install Jenkins with docker image.



05) Create free style project and link it to private git repo containing any dockerfile then build an image from this dockerfile and push it to private docker repo



No changes.



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Revision: 01f111cfcc83809123c306946e32cb506d875eaa Repository: https://github.com/Ahmed-Fawzy-Deovps/new.git

· refs/remotes/origin/main

