

SOFE 3290U: Software Quality & Project Management

Lab 3 PART 2

CRN 75766

Submission for Rivka Sagi

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Video recordings are in zip files in the Github repository:

<https://github.com/RivkaRSagi/SOFE3980U-Lab3-Part2>

DISCUSSION QUESTION

What do pipeline, node, agent, stage, and steps mean in the context of jenkins?

Pipeline: Jenkins is an open source software that can assist in automating the build and deployment of a software project. Any software developer can use jenkins to create a pipeline for their project, and this pipeline can be used for different steps in development including testing, building, running and deploying the project.

Node: a jenkins node refers to a machine that is connected to the jenkins environment, that acts as a jenkins server and can execute/run pipelines or jobs on jenkins.

Agent: an agent in jenkins refers to a machine or container that is designated to execute a specific task in the pipeline when directed to by jenkins.

Stage: in the jenkins pipeline a stage is a section of the pipeline that executes a set of tasks or steps. For example, if the pipeline is supposed to test and then build, then the two stages defined in the pipeline are 'test' and 'build'.

Steps: any stage in the jenkins pipeline is defined by a set of steps that specify exactly how to execute each stage.