**DevOps Build Engineer –Zycus Level 1 -- Assignment**

1. Write a build script to generate 3 different flavors (variations) of the artifact (jar , war, ear ) for the same code base with the only change of configuration files amongst them (properties , xml , txt ..etc) using any build tool (ANT ,Maven , Gradle).

2. How can you establish a connection between two or many different Jenkins jobs (hosted on distinct servers) to pass the parameters / upstream - downstream jobs etc ..( without using Master-Slave connection in a secured way)

ANS:

1. Configuration - Go to Manage Jenkins -> Configure System -> Parameterized Remote Trigger Configuration fill the parameters as appropriate and check the connection using 'validate address' button. If it is validated successfully you are good to go

2. Calling a job on remote server - In your job you can add a build step "trigger remote parameterized job". Fill in the remote server name, poll interval, job name and other parameters. Now when you will run your job, it will trigger the job on remote server and will check for status on the interval given in poll interval option.

3. Write a script OR Convey a proven mechanism to retrieve the URL of artifacts uploaded in Nexus / Artifactory via the Jenkins job.

4. Prepare a Jenkins pipeline job (DSL / groovy script) to satisfy following CI-Cd pipeline :

* Send approval email to Release Manager after the application packaging phase
* Trigger the Jenkins job on reception of the approval email for the above job .

***NOTE:***

Explicitly state the assumptions you are making, if any.

*Add the scripts and answers to a public git repo (github, gitlab, bitbucket) and email the repo URLs. The Name format should be: Your name + Date of completion (DD-MM-YY)*