



Devops position, VVI Team – Home assignment

Most of our daily work is related to Jenkins CI, Git SCM, Docker & etc.

In the following assignment you will try to create an environment that will best describe the knowledge we are looking for.

Please follow the instructions, and if some of the instructions are not clear, just go ahead with your understanding, and make sure to notify us about it :)

We would like you to provide a running Jenkins server, that will initiate an application build&test job on any pull/change request.

- You can use any git service you want, and any open-source tools that may help you.
- All the system should be run as a container, using a single command from cli.

Guidelines about the application and build

- Any language of your choice (python, perl, C/CPP or other.)
- Simple application with like “hello world” output
- For a scripted languages “build” stage should verify a syntax with a lint tool for that language
- Run stage must validate the output (*unit-test wrapping with j-unit output – Bonus*)
- Archive artifacts (*use of Jfrog – Bonus*)
- Job trigger – polling is fine

Guidelines about infrastructure deploy

- Simple CLI (shell script?) to deploy a running Jenkins container
- *Use of docker-compose or K8s – Bonus*
- *Implementation of JCasc or/and DSL on Jenkins image build – Bonus*
- *Simple security enforcement (SSL, login) -- Bonus*

The assignment output will be a link to an accessible repository with the files describes below:

- README (instruction on how to build / run the container)
- Jenkinsfile
- src/* (Application source that prints static string)
- Dockerfile (can be multiple Dockerfiles)
- CLI script
- Etc.