

Assignment 2 – Writing a pipeline to Dockerize applications

In this assignment you are supposed to write a Jenkins pipeline to create a docker containers to run your applications. You can select an application on your own and application codes should be in your SCM repo(Gitlab/Github/etc..) when you submit.

Tasks to do :

1. Figure out and write the required codes to dockerize your application.
2. Manually run your codes to create docker image and run containers and verify if the dockerizing works before you go to automate the process.
3. Put your codes to the remote repository
Name your repository in this format: <your registration number>-<your last name>
Example: 2894-Ranaweera
4. Link your repository to Jenkins.
5. Write a pipeline to automate the dockerize process using groovy. Groovy code also should be kept inside the repository.
6. Your pipeline should be able to get the application codes from the remote repository, create the docker image and run the container from the created docker image.
7. Create a report including necessary steps,Codes and screenshots.
8. Submit your report and link to the code repository. (make the repo public before submitting)

References

<https://www.youtube.com/watch?v=rNsQGvt9v4k>

<https://blog.devgenius.io/containerize-a-python-application-using-docker-f8cea56568dd>

<https://www.liatrio.com/resources/blog/building-with-docker-using-jenkins-pipelines>

<https://www.jenkins.io/doc/book/pipeline/>