

aYo Assignment: DevOps Engineer



Time allocation

You are allocated 5 business days in general, but this assessment should not take more than a few hours to complete.

Overview

As a DevOps Engineer, I want to containerize a simple Tomcat web application and access the web page via SSL.

Requirements

Text in italics are optional

- Download the sample application found here: <https://tomcat.apache.org/tomcat-8.5-doc/appdev/sample/sample.war>
- *Generate self signed key pairs*
- *Enable SSL termination inside the container*
- Containerize the web application
 - *Containerize the application using maven or ant scripts*
- Using a volume mount, save the log files to persistent storage.
- Using docker-compose or minikube runtime service run the container
- Ensure that the application is accessible on both http and https.
- Ensure that the project is available via GIT.
- *Using Jenkins, poll the SCM for changes every 15 minutes and rebuild the docker images if changes are found.*
 - *Make use of Jenkins Pipelines*
- *Jenkins should be deployed to minikube or docker-compose.*

Documentation

- Read me file in project root

Diagrams

- Logical architecture design of a URL shortening service using a cloud services of your choice.
 - i.e. Which cloud services and technologies would you use to create a url shortening service?
 - You can use <https://draw.io> and save the file to the same git repo as above.

Review session

Be ready to explain your project in the review session. If you feel the maximum time to complete the assignment isn't enough, do what you think is reasonable and be ready to justify your thinking in the review session.

Best of luck, we look forward to seeing what you come up with!