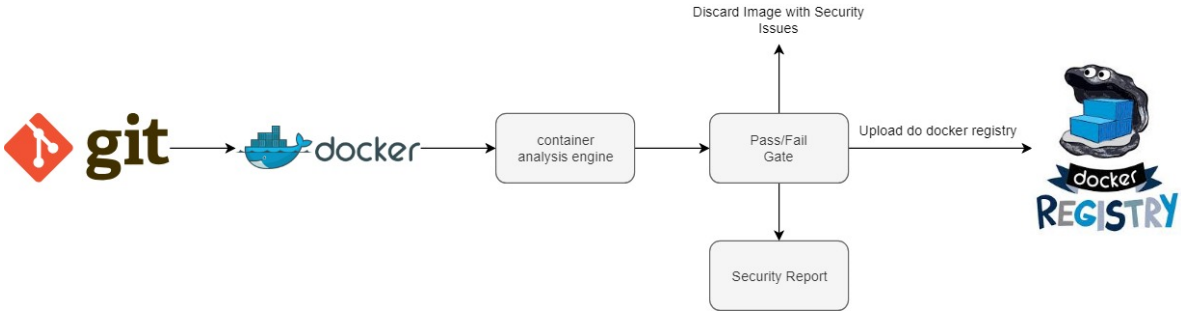
BVTECH

Interview Task - DevOps

Please read the instructions carefully and ensure you understand the requirements before you start coding.

As Docker usage has greatly increased, it has become increasingly important to gain a better understanding of how to securely configure and deploy Dockerized applications.
The Center for Internet Security published a Docker Benchmark, which provides consensus based guidance by subject matter experts for users and organizations to achieve secure Docker usage and configuration that u can find here (https://www.cisecurity.org/benchmark/docker/), and that can be a good guideline on what to follow.

Exercise objective:



The main objective of this exercise is for you to create a pipeline to do a security inspection over newly created container images.

The stages of the Pipeline:

- **Src code** - Prepare a basic java spring boot web application. You can generate one from (https://start.spring.io/) and necessary *Dockerfile* to build it.
- **Build** - Create your docker image.
- **Inspection**
  - Implement a mechanism to run a series of test to inspect the newly created image for security issues.
  - Define clear policies for your container environment. (4-5 basic examples are enough for this exercise)
  - Given some examples: *kernel* version bigger than N, *openssl libs* bigger than version X, Users running container cannot go into privileged mode.
- **Decision** - Little decision making stage, if one of security tests fails the pipeline is aborted, if all tests pass, pipeline should progress to next stage.
- **Registry** - If all test had passed you can upload the image to final docker registry.

- **Report** - All Builds should produce a report of the tests ran and their result.

Please use only open source software to implement this pipeline and use any public repository to deliver your solution to us (github.com or gitlab.com for example)

Please provide us with a README.md that contains all the instructions and related files necessary to run the example, and return your solution to us within 1 week time after you receive it.