Containers

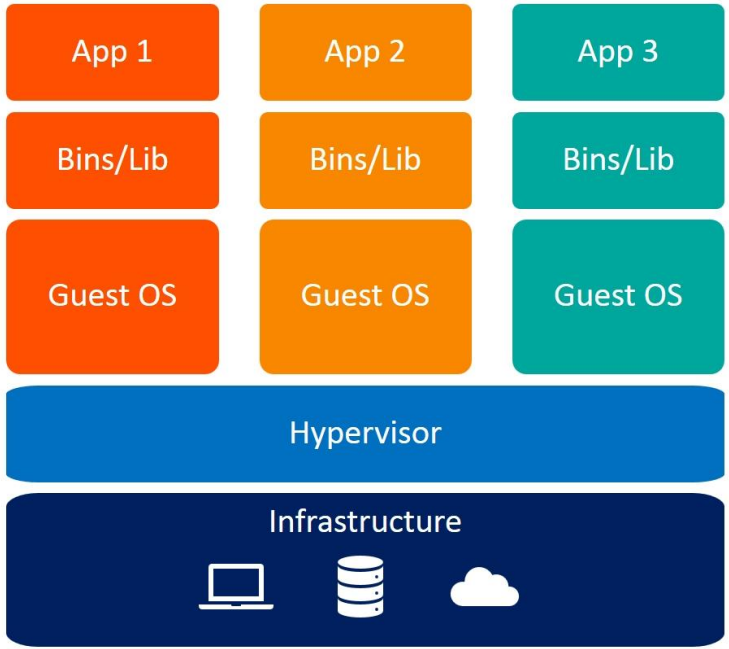
What is a container ?

A container is a standard unit of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another. A container image is a lightweight, standalone, executable package of software that includes everything needed to run an application: code, runtime, system tools, system libraries and settings.

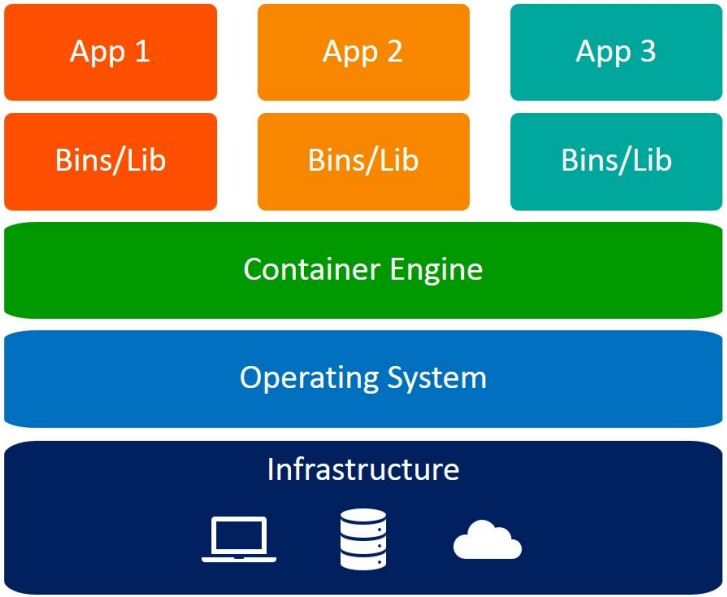
Famous containerization Platforms

podman

Difference b/w VM and Containers



Virtual Machines



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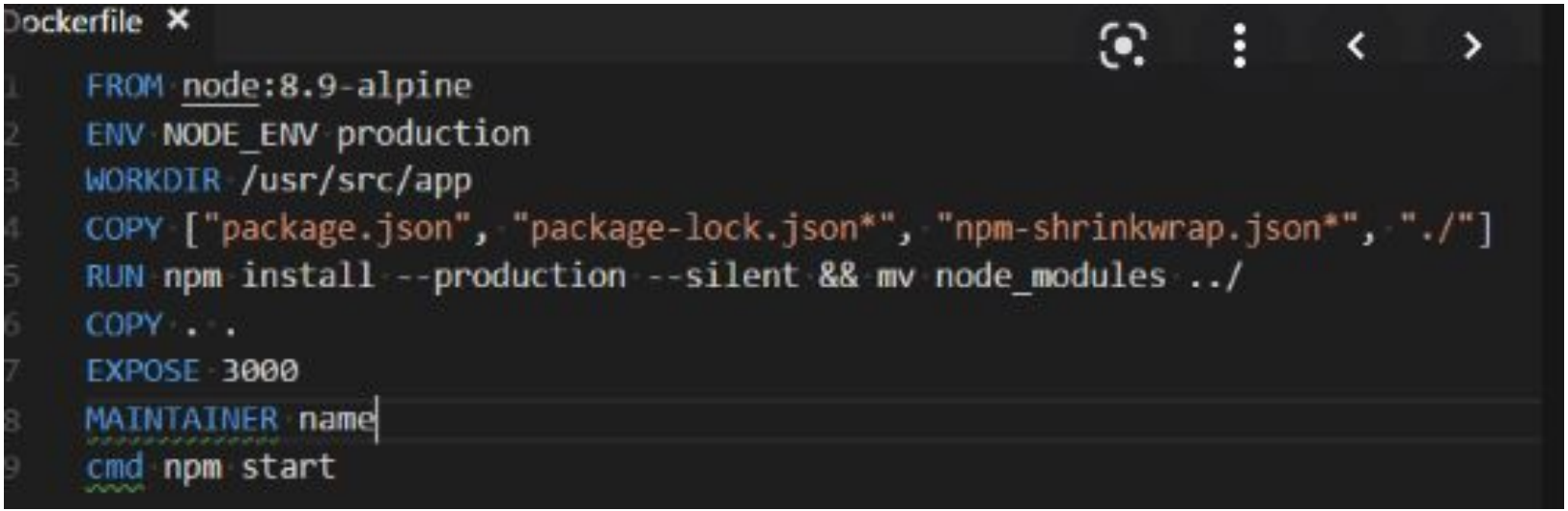
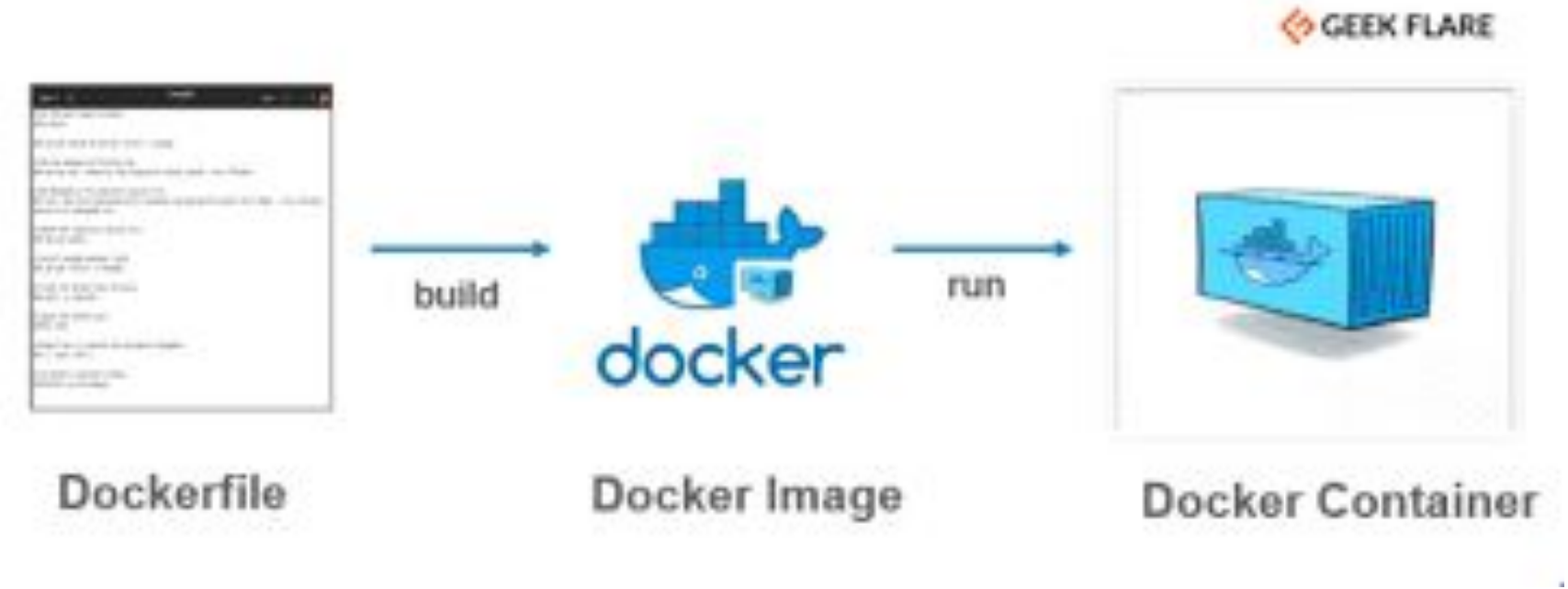
Sample Dockerfile



Dockerfile → Docker Image → Docker Conatiner



Let's watch a video on Acceptance testing

https://www.youtube.com/watch?v=knB4jBafR_M

Assignment

- Find the primary difference b/w Docker and Podman
- Document how to create, build and run a container with a Dockerfile (Do it in your local machine and attach screenshots when you document)