



# Containers



## What is a container ?

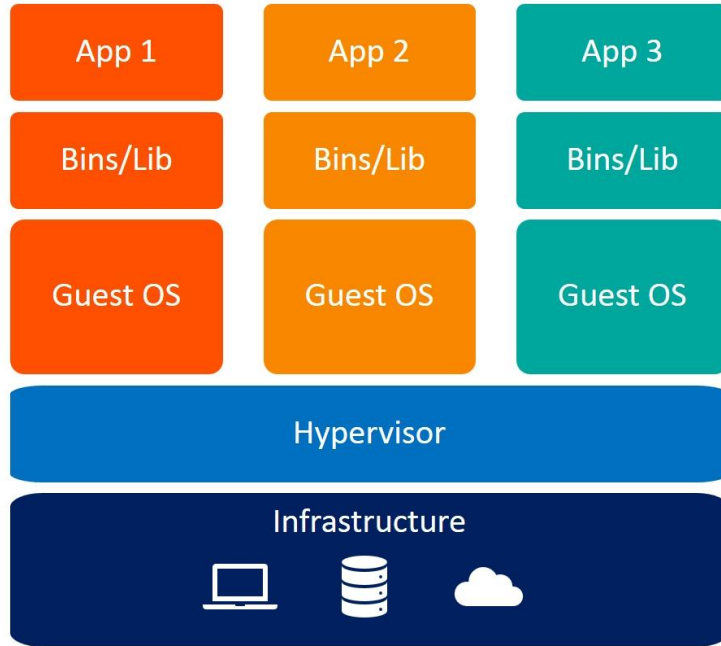
A container is a standard unit of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another. A container image is a lightweight, standalone, executable package of software that includes everything needed to run an application: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

## Famous containerization Platforms

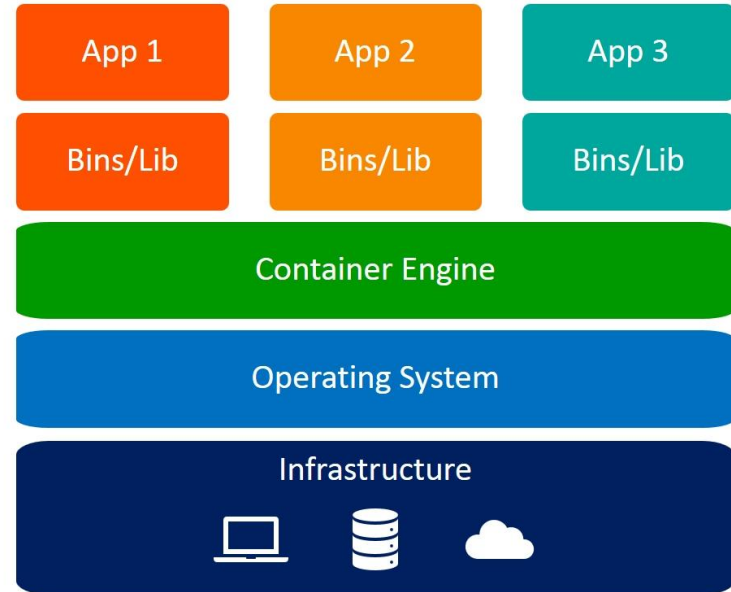


podman

# Difference b/w VM and Containers



Virtual Machines



Containers

## Sample Dockerfile

```
Dockerfile X
1 FROM node:8.9-alpine
2 ENV NODE_ENV production
3 WORKDIR /usr/src/app
4 COPY ["package.json", "package-lock.json*", "npm-shrinkwrap.json*", "./"]
5 RUN npm install --production --silent && mv node_modules ../
6 COPY . .
7 EXPOSE 3000
8 MAINTAINER name
9 CMD npm start
```





**Let's watch a video on Acceptance testing**

[https://www.youtube.com/watch?v=knB4jBafR\\_M](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)