

# **Introduction Docker**



# What is a Container?

A way to package application with all the necessary dependencies and configuration









► Portable artifact, easily shared



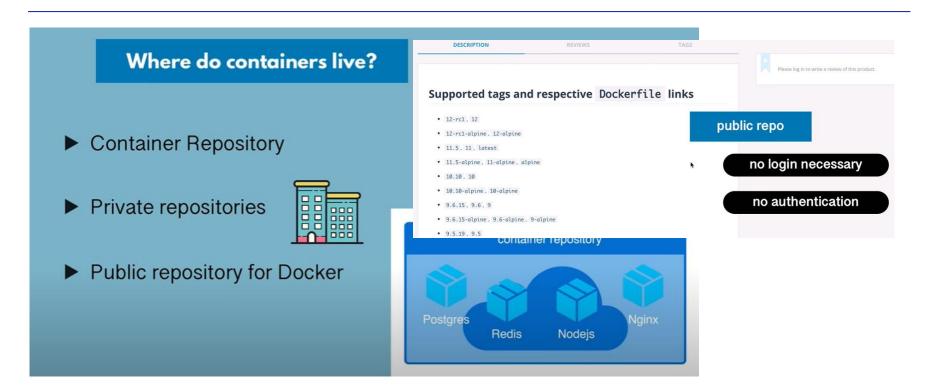






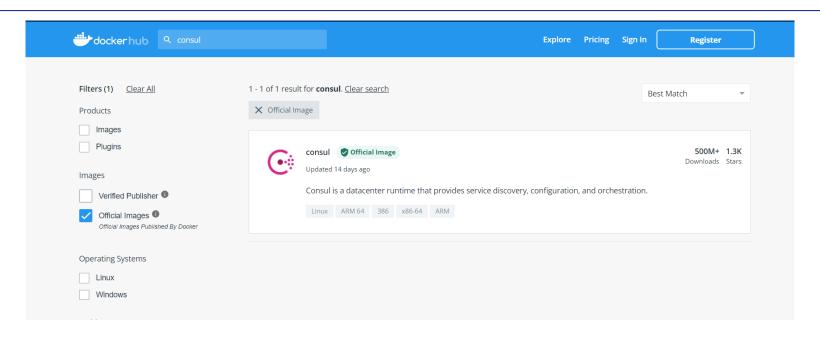
### Container Storage? Docker Hub - https://hub.docker.com/





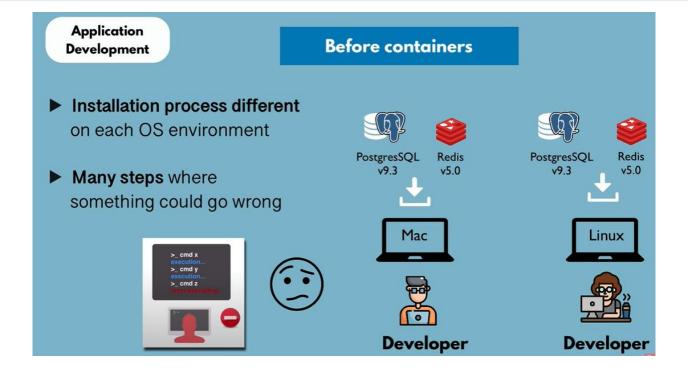
# **Hashicorp Consul**



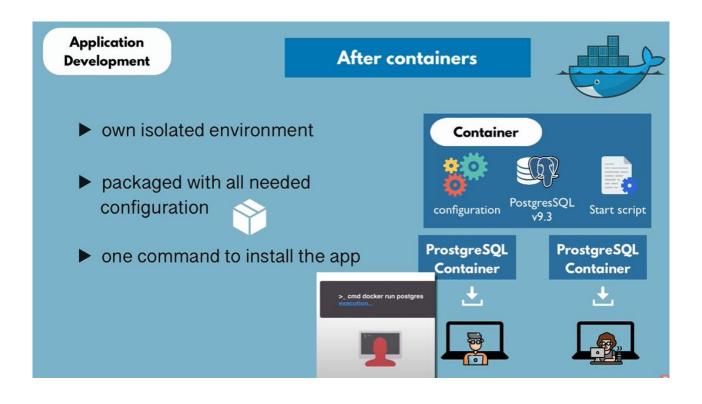


#### **Before Containers**



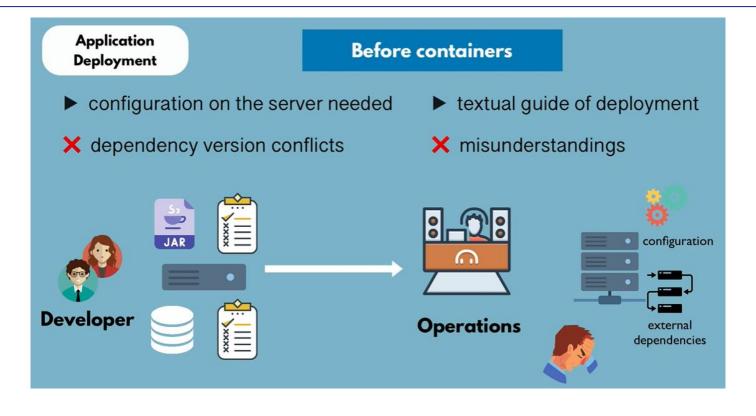




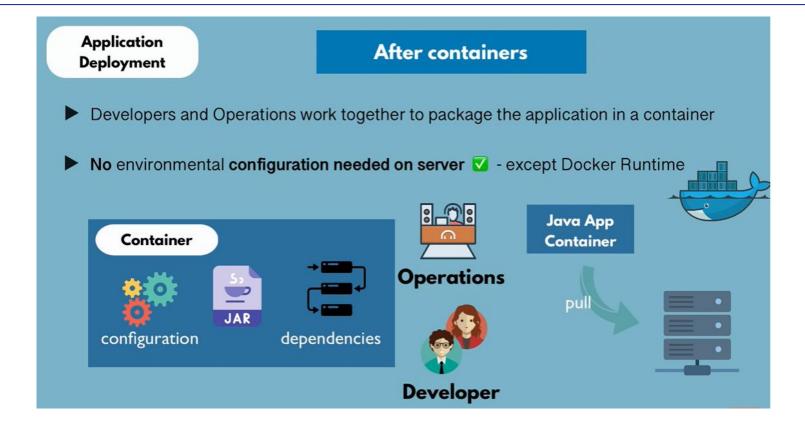


#### **Before Container**

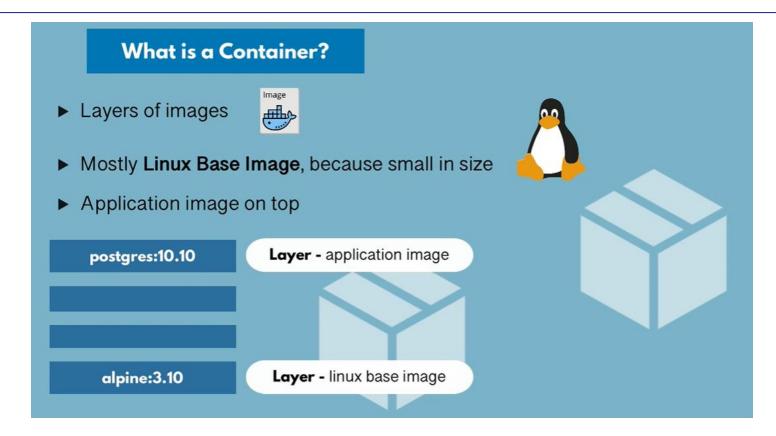












### **Docker Image vs Docker Container**



# **Docker Image**

▶ the actual package





artifact, that can be moved around

not running

### **Docker Container**

actually start the application

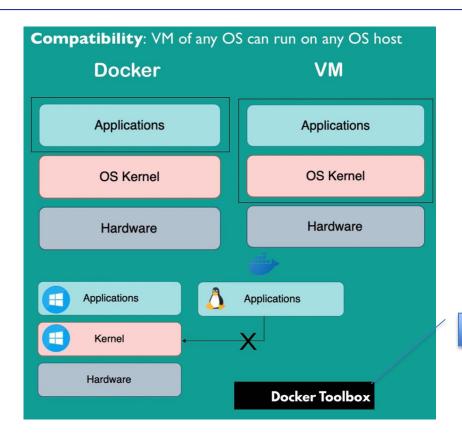


container environment is created

running



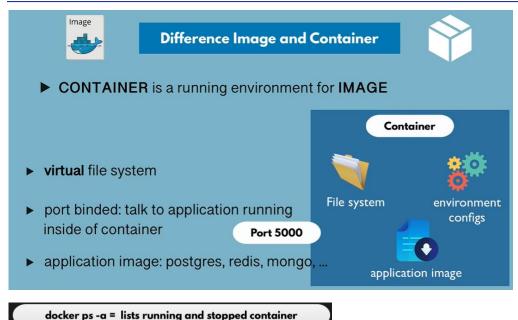


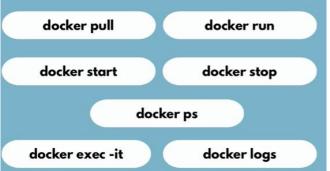


Windows 10 Below

#### **Few Commands in Docker**







New commands -- (Working fine) \$ docker stop < cotainerId) \$ docker rm

\$docker run

\$ docker start

Old commands -- (Not working anymore) \$ docker stop \$ docker rm \$ docker run Ctrl + C / Ctrl + Z

### **Docker commands**



https://docs.docker.com/engine/reference/commandline/docker/

#### **Demos**



How to create docker image using **Dockerfile**What is docker compose and how to create/use **docker-compose.yml** file

# To build springboot application into image and start container



https://spring.io/guides/gs/spring-boot-docker/

# **Appendix**



- Docker: Copying files from Docker container to host
- <u>Docker cannot start on Windows</u>
- https://www.educba.com/docker-ps/
- <u>docker container rm | Docker Documentation</u>
- How to name Dockerfiles