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Agenda

- What is docker?
- Why use docker?
- Docker installation.
- What is docker image?
- What is container?
- What is docker hub?
- What is difference between virtual machine and docker?
- Docker CLI
- Docker platform workflow

What is Docker?

- Docker is a software development tool and a virtualization technology that makes it easy to develop, deploy, and manage applications by using containers.
- Docker enables you to separate your applications from your infrastructure so you can deliver software quickly.
- Docker is an operating system for containers.

Why use Docker?

► SHIP MORE SOFTWARE FASTER

Docker users on average ship software 7x more frequently than non-Docker users.

SAVE MONEY

Docker containers make it easier to run more code on each server, improving your utilization and saving you money.

- It does not create virtual machines.
- Provide storage for maintaining containers and images in docker hub.

Docker Installation

- SYSTEM REQUIREMENTS:
 - ► 64-BIT PROCESSOR
 - ▶ 4GB ram
- Link for download docker on windows :

Install docker on windows

What is Docker image?

- ▶ In Docker, everything is based on Images. An image is a combination of a file system and parameters. Docker users on average ship software 7x more frequently than non-Docker users.
- Pull image from docker hub.
- Command for create image with container.

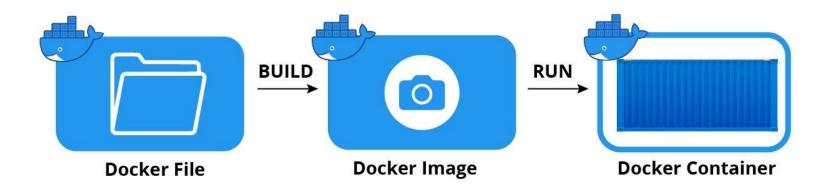
docker run -it ubuntu /bin/bash

Show Images

docker images

What is Docker container?

- Container is running instance of image.
- We can easily make containers from images.
- docker run -it -d --name testdoc ubuntu



What is Docker hub?

- Provides docker services.
- Library of public images.
- Storage of your images.

Difference between virtual machine and docker?

Docker CLI?

docker build : Build Image from docker file.

docker images: List all images on a docker host.

docker run: run an image.

docker ps: List of all running instances.

docker rm: Remove an instance.

docker rmi: Remove an image.

Docker platform workflow?

- Find an image from docker hub.
- Pull an image from docker hub.
- Run an image on docker host.