

TRAINING CONTENT

Cloud Computing

YOUR NEXT DESTINATION
OF SOFTWARE OUTSOURCING

Lecture Outline



- Docker
- Container
- Containers vs Virtual Machines
- Docker Architecture Diagram
- Docker Installation
- Dockerfile
- Push Image into Registry
- Docker Networking
- Docker Compose
- Docker Compose Example
- Kubernetes Overview

Docker Installation On Ubuntu Focal 20.04 (LTS)



Option -1: Installing Docker from the Official Repository

Step 0: Run the following command to uninstall previous versions:

```
sudo apt-get remove docker docker-engine docker.io containerd runc
```

Step 1: Update the Package Repository:

```
sudo apt update
```

Step 2: Install Prerequisite Packages:

```
sudo apt install apt-transport-https ca-certificates curl software-properties-common -y
```

Step 3: Add GPG Key:

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

Step 4: Add Docker Repository:

```
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
```

Step 5: Specify Installation Source

```
apt-cache policy docker-ce
```

Step 6: Install Docker

```
sudo apt install docker-ce -y
```

Step 7: Check Docker Status

```
sudo systemctl status docker
```

Docker Installation On Ubuntu Focal 20.04 (LTS)



Option-2: Installing Docker from the Default Repositories

Step 1: Update the Repository

```
sudo apt update
```

Step 2: Install Docker

```
sudo apt install docker.io -y
```

Step 3: Install Dependencies

```
sudo snap install docker
```

Step 4: Check Installation

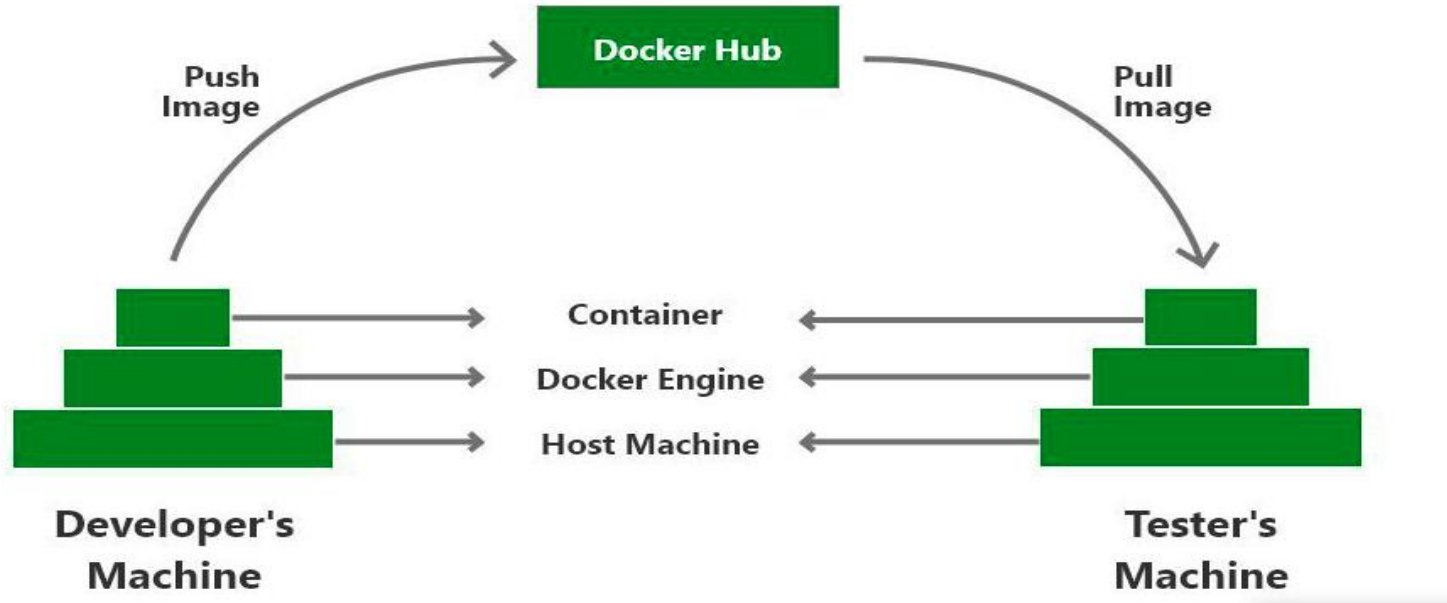
```
sudo systemctl status docker
```

Docker Provision

- Cloud
- Physical

Docker Hub

Docker Hub is a hosted repository service provided by Docker for finding and sharing container images with your team.



Downloading Docker images

```
docker pull ImageNAME
```



Thank You

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