**# Install Docker on AWS Ubuntu**

* **Multiple way we can install docker**

**Using script file which is provided by docker community edition**

* # sudo curl –fsSL get.docker.com | /bin/bash (i.e it will work for all platform except amazonRHEL)

**Using Package manager as below steps:**

**We can install specific version of docker by following official website**

sudo apt update -y

sudo apt install docker.io -y

sudo service docker start

#sudo docker info

**# Check docker is installed or not**

# docker info

# sudo service docker status ***#To check dockerD status***

**# You will get permission denied error as regular user doesn’t have permissions to execute docker commands.** **Add user to docker group because normal user we can‘t interact with docker demon.**

**Note:** Docker group already created when we installed the docker

# sudo usermod -aG docker $USER ***(# it will add current user)***

or

# sudo usermod -aG docker Ubuntu

# exit

Re-login again with same shell

**# Exit From Current SSH Terminal & SSH(Login) again .Then execute**

docker ps

**# Install Docker on Amazon Linux**

# sudo yum update -y

# sudo yum install docker -y

# sudo systemctl docker start

Add Regular user to dockergroup

sudo usermod -aG docker <username>

Example:

#sudo usermod -aG docker ec2-user

Once you add user to group exit from the server and login again.

# Get docker information

#docker info

#Install Docker in Linux (Works for most of linux flavors).

#sudo curl -fsSL get.docker.com | /bin/bash

**Docker Home/Working Dir:**

/var/lib/docker

**# DockerCommunityEdition (DCE) on AWS RHEL (Officially No Support)**

#sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo

#sudo dnf install docker-ce-3:18.09.1-3.el7 -y

#sudo systemctl enable docker

#sudo systemctl start docker

#sudo docker info

**# Check docker is installed or not**

#docker info

# You will get permission denied error as regular user doesn’t have permissions to execute docker commands. Add user to docker group.

#sudo usermod -aG docker $USER

or

#sudo usermod -aG docker ec2-user

# Exit From Current SSH Terminal & SSH(Login) again .Then execute

#docker ps

**Note:**

* DCE will not support for RHEL Linux officially but we can install if we want
* RHEL have their own containerization tool

**How many containers we can create one machine or server?**

* Its depends on system resources ( CPU/RAM ..) etc
* **Docker working directory is:** /var/lib/docker
* **Default name for docker file is :** Dockerfile(***i.e DSL DomainSpecificLanguage key words***)
* docker version

FROM <registry/Repository:tag>

<default registry is dockerHub:tomcat:8.0.20-jr8:<default will be latest version>

Note: dockerHub is like playstore for docker images

FROM tomcat:8.0.20-jr8 ***# we will get Tomcat + Java + Container libraries***

**#To check docker client version**

docker version

**#To check docker server version**

docker version --format '{{.Server.Version}}'