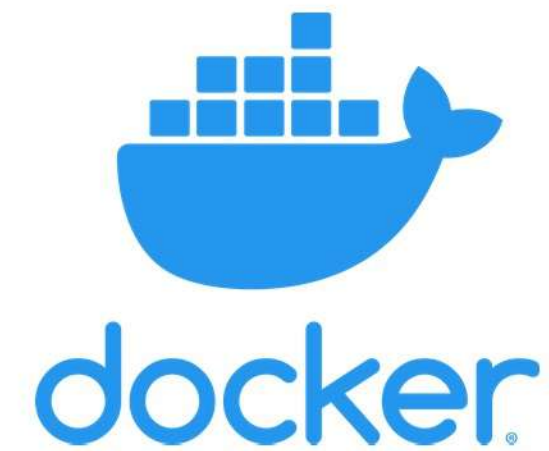# Docker Deep Dive

Chapter #2

Installing

Docker

INSTALLING

WINDOWS

Docker on Windows

LINUX

Docker on Linux

CLOUD

Docker on AWS Cloud platform

DOCKER FOR WINDOWS

Installer from Docker Inc. that spins up a single-engine Docker environment on a 64-bit Windows 10 desktop or laptop.

COMMUNITY EDITION

Though capable, not recommended for production use.

FEATURE LAG

Docker Inc. take stability first, features second. So might not get all features.

Docker on Windows

Pre-requisites. Docker for Windows requires:

- Windows 10 Pro | Enterprise | Education (1511 November update, Build 10586 or later)
- Must be 64-bit
- The Hyper-V and Containers features must be enabled in Windows
- Hardware virtualization support must be enabled in your system's BIOS

Visit this link to download the installer.

https://hub.docker.com/editions/community/docker-ce-desktop-windows

DOCKER FOR LINUX

Installation is very simple. Doesn't matter if its a physical Linux server, virtual, on cloud or in different galaxy.

COMMUNITY EDITION

Free and we will use this for our training.

ENTERPRISE EDITION

Comes with commercial support, access to docker trust registry.

Docker on Linux

Installing docker on Linux is a very easy task and it makes absolutely no difference if your Linux machine is a physical server, on the other side of the planet in a public cloud, or a VM on your laptop.

Only requirement is that the machine be running Linux & can access https://get.docker.com.

You can also use the wget command to call a shell script that installs Docker CE. You should ensure that your system is up-to-date with the latest packages and security patches before continuing.

1. Open a new shell on your Linux machine.

2. Use wget to retrieve and run the Docker install script from https://get.docker.com & pipe it through your shell -

```
# yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-
ce.repo
# yum makecache
# yum install docker-ce --allowerasing (when you have podman in your Rhel server)
# systemctl enable --now docker
# systemctl start  docker
# systemctl status  docker
```

Once docker is installed, you can use:

docker --version
docker info

To get more information about your docker host and docker application.

DOCKER ON AWS

You need access to AWS console. Can sign up with "free tier" account.

EC2 INSTANCE WITH DOCKER

Select the AMI that has docker in its repository.

SSH INTO THE EC2 INSTANCE

Once instance is ready. SSH into it to proceed to next chapter.

Docker on Cloud

WHAT WE LEARNED

You know how to install docker and now ready to learn about images and containers.