Docker Crash Course

How to setup a Pleb Lightning Node for Production and Development.

Presentation Link:
https://slugify.link/dockerworkshop

Overview

- What is a Docker Container?
- Setup a Docker Environment
- How to use Docker (CLI, Compose, Portainer)
- Create a simple template project.
- Launch your own Lightning Node.

Setup a Docker Environment

- Get Docker Desktop:
  https://docs.docker.com/get-docker
- Get Docker Engine:
  https://docs.docker.com/engine/install
- (optional) Get VScode Extention:
  https://code.visualstudio.com/docs/containers/overview
- (optional) Register on Docker Hub:
  https://hub.docker.com

Ways to Use Docker

- Docker Command-Line:
  https://docs.docker.com/engine/reference/commandline/cli
- Docker Build:
  https://docs.docker.com/engine/reference/builder
- Docker Compose:
  https://docs.docker.com/compose/compose-file
- Docker Desktop:
  https://docs.docker.com/desktop
- VSCode Extention:
  https://code.visualstudio.com/docs/containers/overview
- Portainer:
  https://docs.portainer.io/start/install/server/docker

Anatomy of a Docker Project

.dockerfile Builds your docker image.

entrypoint.sh Runs inside your container.

build.sh and **start.sh** scripts. (optional)

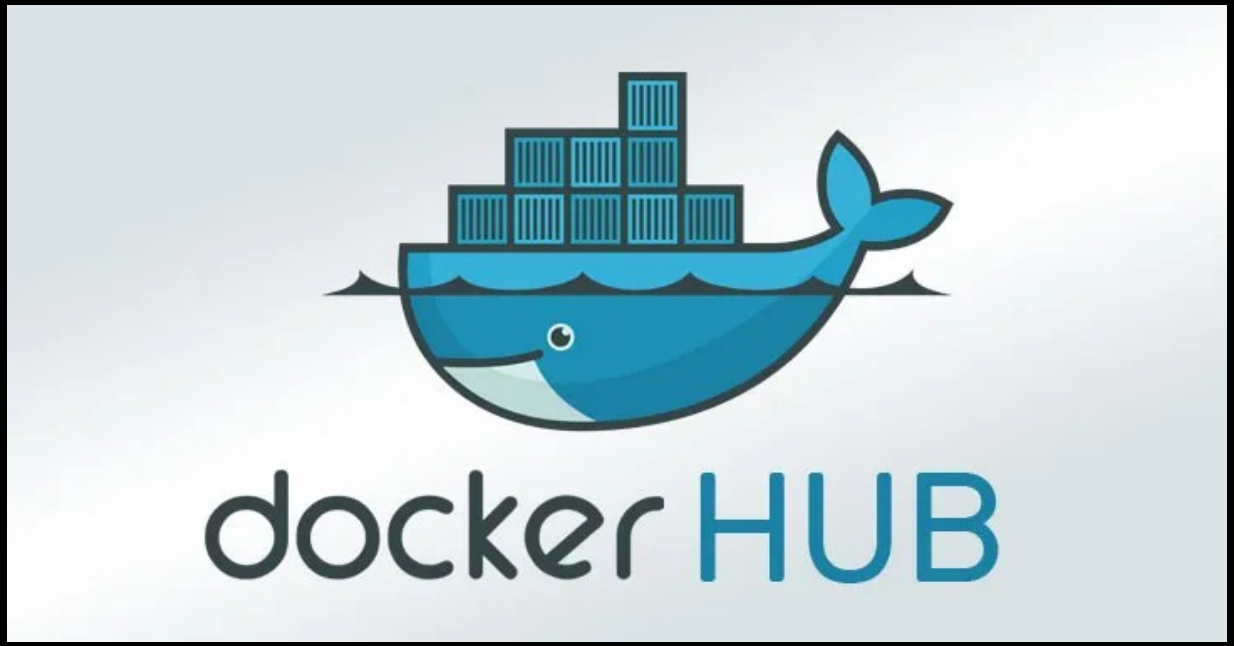
compose.yml Configures your docker container (or many containers!)

Docker Hello World

```
## Launch a container with nodejs.
docker run -it -p 80:80 node:latest


## Run a simple program.
for (let c of `Hello world!`) {
  console.log(c)
}
```

Docker Hub



https://docs.docker.com/docker-hub

Workbench Pattern

```
Build          : Everything for building.
Config         : Read-only store for configs.
Data           : For storing persistent data.
Home           : Home and entrypoint for dev.
Image          : Copied to `/' at build time.
.env           : Configures environment vars.
Dockerfile     : Main image build file.
Compose.yml    : Main container config.

https://github.com/cmdruid/workbench
```

Pleb Developer Node

- Neutrino Workbench (LND):
- https://github.com/cmdruid/neutrino-workbench
- Sauron’s Workbench (CLN):

  https://github.com/cmdruid/saurons-workbench
- Satoshi’s Workbench (Core):

  https://github.com/cmdruid/satoshi-workbench

Thank you!

- GitHub : github.com/cmdruid
- Twitter : @btctechsupport