Docker Usage and Introduction

Zack

Usage - Setup

https://github.com/PlusAl/drive/blob/master/README.md

- Run sudo ./setup-docker.sh in drive repo
- Run docker run hello-world to ensure docker works, otherwise please reboot
 and try again

latest: Pulling from library/hello-world
1b930d010525: Pull complete
Digest: sha256:6540fc08ee66b7b63468dc3317e3303aae178cb8a45ed3123180328bccld20f
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.

- git clone git@github.com:PlusAI/tools.git
- sudo ln -s \$YourWorkSpace/tools/drive /usr/local/bin/drive
- Run drive --init [sz|sv|bj] Password Or search Jenkins Setup in drive repo's wiki page

Usage - Development

- drive --pull to download latest image from docker server. (optional)
- drive to enter the container and start coding!
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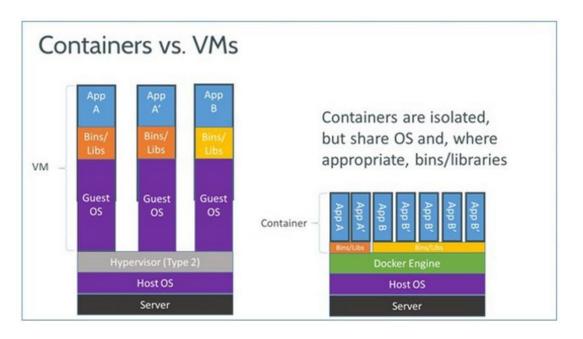
Usage - More options

- drive --no-x11 disable display/x11 forwarding
- drive --name [name] to name your container
- docker ps to list running containers
- drive --exec --name [name] to attach a new shell proces to the specified container
- drive -i plusai-prs/drive: \$PR_NUM to enter the container built by this PR, no need to build locally. (Only works for US settings for now)
- CTRL+p then CTRL+q to detach from current container
- Or more https://github.com/wsargent/docker-cheat-sheet

For those who don't know anything about docker...

What is Docker?

https://opensource.com/resources/what-docker



Why Docker?

https://developer.ibm.com/dwblog/2016/what-is-docker-containers/

- Dependency Matrix. Save your day from package/dependency issues
- When others need to run the code, they download the image, along with the code (and dependencies) and it just runs.
- Easier Integration. It guarantees a level of isolation from other applications running on the target host
- Docker Containers will deploy and run consistently from one environment to the next.