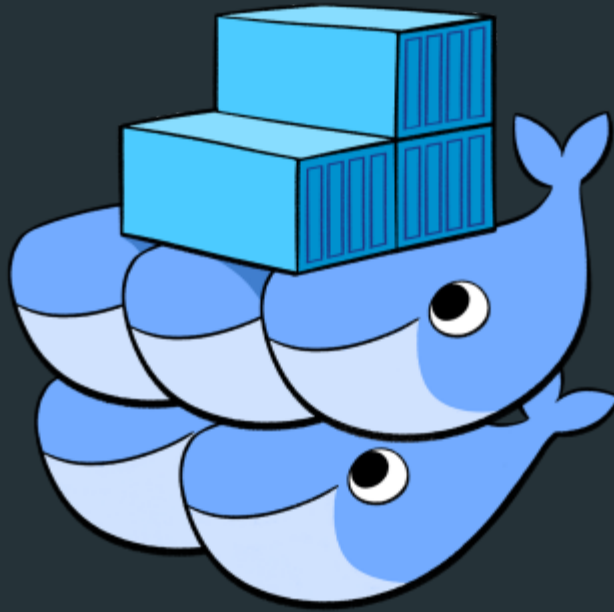


DEPLOYING PHP APPS ON



MULTI NODE DOCKER SWARM

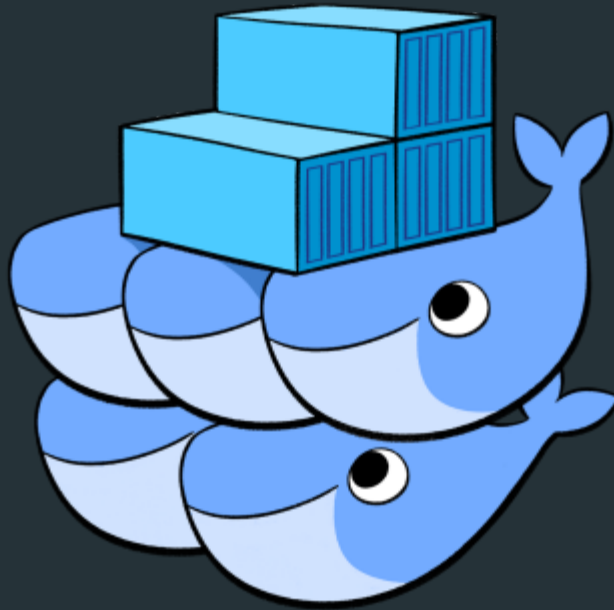
IKE DEVOLDER



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Web developer @ Studio Emma

DOCKER SWARM



CONCEPTS

- node
- services
- task

CHOOSING THE "RIGHT" BASE DISTRIBUTION

Supported Distributions

Linux distributions currently supported for deployment on Linode.

Distribution	Last updated
Arch 2017.07.01	2017-07-13
CentOS 7	2017-02-10
CoreOS Container Linux	2017-06-06
Debian 8	2017-03-21
Debian 9	2017-06-16
Fedora 26	2017-07-12
Gentoo 2017-07-12	2017-07-13
OpenSUSE Leap 42.3	2017-07-27
Slackware 14.2	2016-10-13
Ubuntu 16.04 LTS	2017-03-21
Ubuntu 17.04	2017-04-13

BAD



INTERMEDIATE



GOOD



GOOD BUT NOT COMMON WITH BIG HOSTERS



SETUP A SWARM

SYSTEM

```
$ pacman -S docker  
$ systemctl enable docker.service
```

CERTIFICATES

communication between client and server will be encrypted

CLIENT CONFIG

to communicate with our server(s) we have to setup some environment variables

```
export DOCKER_HOST=tcp://192.168.254.41:2375
export DOCKER_CERT_PATH=$(pwd)/client-cert
export DOCKER_TLS_VERIFY=1
```

SETUP THE SWARM

```
# docker swarm init \  
  --advertise-addr=[internal server ip]  
# docker swarm join-token \  
  -q worker  
# docker swarm join \  
  --token [worker token] \  
  [internal master server ip]
```

SIMPLE CHECK SWARM STATUS

```
$ docker node ls  
$ docker service ls
```

DOCKER SERVICE

create/manage a single service within a swarm

OVERVIEW

- docker service create
- docker service inspect
- docker service logs
- docker service ls
- docker service ps
- docker service rm
- docker service scale
- docker service update

DOCKER STACK

create/manage an application stack within a swarm

OVERVIEW

- docker stack deploy
- docker stack ls
- docker stack ps
- docker stack rm
- docker stack services

DEPLOYING A SIMPLE STATELESS APPLICATION

DEMO

CHALLENGES ENCOUNTERED

- create stateless images
- create swarm configuration
- registry? self hosted? docker hub?

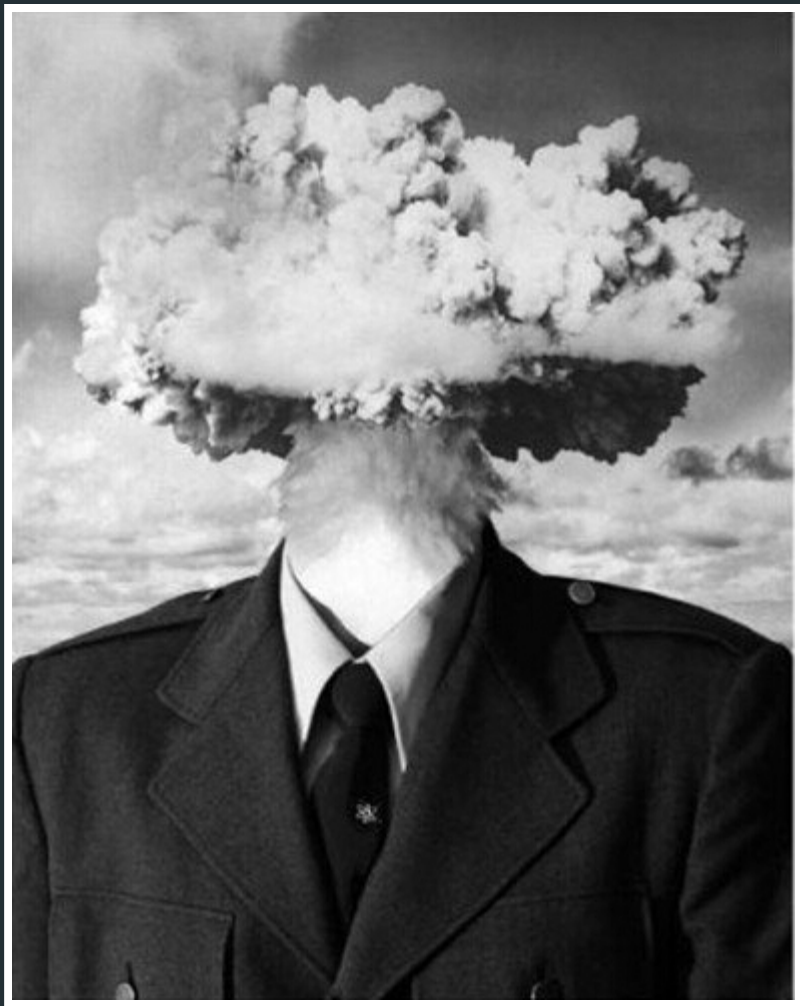
HARDER EXAMPLE?

**DEPLOYING PIMCORE, THERE IS STATE, A
DATABASE, ...**

DEMO

CHALLENGES ENCOUNTERED

- create usable images
- create swarm configuration
- registry? self hosted? docker hub?
- how to handle state



QUESTIONS?

<https://joind.in/talk/cd175>

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THANKS.

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