Section 6 – Deploying Applications

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Deployment

▶ - Deploy application and host to the cloud

▶ - Các options deployment

▶ - Khởi tạo 1 VPS (Virtual Private Server)

▶ - Sử dụng Docker Machine

▶ - Optimized production images

▶ - Deploying the application

Deployment Options

- Single-host
- Cluster
  - Docker Swarm
  - Kubernetes

Virtual Private Server Options

- Digital Ocean
- Google Cloud Platform (GCP)
- Microsoft Azure
- Amazon Web Services (AWS)

Install Docker Machine

- Docker Machine Install: https://github.com/docker/machine/releases
- Docker Machine Driver: https://docs.docker.com/machine/drivers/

Cấp phép (provisioning) to the Host

docker-machine create \

--driver digitalocean \

--digitalocean-image ubuntu-18-04-x64 \

--digitalocean-access-token {token}\

--engine-install-url "https://releases.rancher.com/install-docker/19.03.9.sh" \

{app name}

- Problem: https://www.digitalocean.com/community/tutorials/how-to-provision-and-manage-remote-docker-hosts-with-docker-machine-on-ubuntu-16-04

Kết nối tới Host

- **docker-machine ls :** List all machines

- **docker-machine ssh** {app name}: Log into or run a command on a machine with SSH

Deploying the Application

docker-machine env {name}: Get các biến môi trường của docker-machine {name}

eval $(docker-machine env {name}) : Export các biến môi trường của ứng dung vào terminal process hiện tại và active docker machine

docker-compose -f docker-compose.prod.yml up -d –build : Up and running docker compose file sử dụng Production.