Lab7 - Kubernetes

Initialize cluster

- 1. cd to *devops-lab/vagrant-ubuntu20-multiple/* vagrant environment
 - Start all VMs.
- 2. On the master vagrant VM, initialize the cluster (just like docker swarm)
 - Is there any errors? How to resolve?
- **3.** Run kubeadm join on each worker node to join the kubernetes cluster.
 - On the master, check that all nodes are in the cluster.

Manage pods

- **4.** Create a pod through pod.yml yaml file.
 - On which node the pod is created?
 - What is the pod's IP address?
 - What is the container's name and ID?
 - What is the image's name and ID?
- **5.** Remode the pod from the cluster.

Manage deployments

- **6.** Create a deployement through deployement.yml yaml file.
 - What is the deployment's name and ID?
 - How many pods are created ? On which nodes ? Give pods names, IDs, Ips, etc ...
 - Scale the pods number to 3.
 - On which node the third pod is created? Give the name, ID, IP, etc ...
- 7. Remove 1 pod.
 - What happened to the deployment?

Manage services

- **8.** Create a service through service.yml yaml file.
 - What is the service's name, ID and IP address?
- **9.** Using a browser, test the service from the outside of kubernetes cluster.
- **10.** Remove the deployment and the service from the cluster.

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