

Lab4 - Kubernetes

Initialiser cluster

1. cd to *lab-docker-k8s/lab/docker/multi-node/vagrant* and start all VM .
2. On the K8s-master VM, initialize cluster
3. On each worker VM, run kubeadm join command to join the kubernetes cluster.
4. On the master, check that all nodes are in the cluster.

Manage pods

5. 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 ?
6. Remode the pod from the cluster.

Manage deployments

7. Create a deployment through deployment.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 ...
8. Remove 1 pod.
 - What happened to the deployment ?

Manage services

9. Create a service through service.yml yaml file.

- What is the service's name, ID and IP address ?
- 10.** Using a browser, test the service from the outside of kubernetes cluster.
 - 11.** Remove the deployment and the service from the cluster.