# Lab3 - Vagrant

#### Lab environment setup

- 1. Make sure all the required softwares are installed:
  - o Git
  - Vagrant
- 2. Create the ~/vagrantfiles directory, and cd to it.
- **3.** Clone the git repository : <a href="https://github.com/xiaopeng163/docker-k8s-lab">https://github.com/xiaopeng163/docker-k8s-lab</a>

### Vagrant with one node

- **4.** cd to : docker-k8s-lab/lab/docker/single-node/vagrant-centos7
  - Describe the content of Vagrantfile file.
- **5.** Start and provision the vagrant environment with the command : *vagrant up*
- **6.** Output status of the vagrant machine with command :

vagrant status

7. Connect to machine via SSH

vagrant ssh

- What is the authentication method?
- **8.** Exit and stop the vagrant machine with the command:

vagrant halt

- **9.** cd to : docker-k8s-lab/lab/docker/single-node/vagrant-ubuntu1604.
- 10. Do the same thing as centos 7 (4 to 8).

#### Vagrant with two nodes

- 11. cd to docker-k8s-lab/lab/docker/multi-node/vagrant
  - Describe the content of *Vagrantfile* file.
  - What is the difference between this vagrantfile and that described in question 4?
- **12.** Start and provision the vagrant environment.
- **13.** Connect to each vagrant machine via SSH.

**14.** Exit and stop the each vagrant machine.

## Vagrant with three nodes

**15.** cd to *lab/k8s/multi-node/vagrant/* and do the same thing.

## Other vagrant commands

- 16. Output status Vagrant environments for this user.
- 17. Stop and delete all traces of the *centos7* vagrant machine.
- **18.** List the vagrant boxes.