

Lab 5 (Two weeks): Build it and Share it

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Get Ready

- Now you need to use the OpenStack built on the your first lab
- You need to deploy certain services onto the OpenStack, say web services.
- The purpose of the lab
 - Understanding the mechanism of IaaS hierarchy
 - Trying to launch certain engineering services
 - Understanding the process of build a visible web service

Task 1 Mounting

- Start your openstack system, assuming the system is devstack
- Now, you can choose two separate ways to complete your tasks
 - The “swordman”: build an all-in-one single VM
 - The “mage”: build an all-in-one single container
- You get to choose what OS images you like in the VM or the container
 - Of course, what is a VM?
 - What is a container?
 - What does an OS image mean to such things?
 - Remember, one way is good enough. You DO NOT have to do both.

Task 2 Build and Rebuild

- You are asked to build a web service in your Homework 2.
 - Remember? the Golang code
- Now you need to make it real
 - Build such web services onto your OpenStack Container, or VM
 - Show us how you successfully build such services
 - (Bonus Points) Duplicate such services onto multiple VMs or containers, using scripts
 - (Bonus Points) Build other services, such as the BookSeller website, you built for your Web Programming MidTerm

Lab submission

- A PDF file which is your lab5 report
- You are given two weeks to finish this lab, thus, the deadline is 11:59PM May 13th
- Tell us what else can we improve to make your life more interesting