

HW-Cloud: Docker Container and OAuth 2.0/OpenID Connect

Deadline: May 31, 2021

Setup a web service (using nginx/apache web server) with Docker on AWS, Google Cloud, Azure, or Docker play ground.

1. Launch an Instance (VM) on the chosen Cloud. (try web UI or CLI)
2. Use/Setup Docker Environment.
3. Run a container with some web server.
4. Design a web application that can authenticate user with Google/Facebook/Line/Twitter account. (using OAuth 2.0/OpenID Connect)

Submissions: **(Two or Three students as a group to work on the Homework)**

A report (including how workload sharing in your homework) with discussions about the steps and with some snapshots

Reference

<https://hub.docker.com/>

Docker Installation: <https://docs.docker.com/install/linux/docker-ce/ubuntu/>

Docker play ground: [Play with Docker \(play-with-docker.com\)](https://play-with-docker.com)

Docker Hub - <https://hub.docker.com/>

How to use Docker File - <https://docs.docker.com/engine/reference/builder/>

OAuth 2.0: <https://developers.google.com/identity/protocols/oauth2>

OpenID Connect: <https://developers.google.com/identity/protocols/oauth2/openid-connect>

Tutorial: [OAuth 2.0 Simple Example \(256stuff.com\)](https://256stuff.com)

