Course 1 - Lesson 11 - Wrap Up

[Q&A](https://docs.google.com/document/d/1KvNxzZTtQsTqdcXD4z1b39goiRhARK7OQR5QTGNDa2E/edit#)

# Agenda

* Review
* Answer any questions
* Work on the project

# Devops Certifications

1) AWS Certified DevOps professional Exam : <https://aws.amazon.com/certification/certified-devops-engineer-professional/>

2) AZ-400 : Azure DevOps Engineer Expert Exam :

<https://docs.microsoft.com/en-us/learn/certifications/devops-engineer/>

3) Docker Certified Associate :

<https://medium.com/bb-tutorials-and-thoughts/all-you-need-to-know-about-docker-certified-associate-dca-exam-21dd2ccadbc0>

<https://prod.examity.com/docker/>

4) Certified Kubernetes Administrator :

<https://www.cncf.io/certification/cka/>

5) Certified Kubernetes Application Developer :

<https://www.cncf.io/certification/ckad/>

6) Hashicorp Certified Terraform Associate :

<https://www.hashicorp.com/certification/terraform-associate>

# Exam Prep

Take the practice test….search for them

Take plenty of notes, as you study and work through labs.

Take your OWN notes!

# Devops Questions / Interview Prep

[Interview questions 1](https://docs.google.com/document/d/1FLEPqVK0zRkGGHXKlHj4CPhSAmb96YkiNbbp6oWKd5o/edit) - Architect Level

<https://github.com/bregman-arie/devops-exercises>

<https://github.com/bregman-arie/devops-resources>

<https://github.com/jakshi/devops-interview-questions>

For the 2nd project in Assessment tab ( Deploy Angular Application in Docker Container), please refer :

<https://medium.com/bb-tutorials-and-thoughts/angular-local-development-with-docker-compose-13719b998e42>

<https://github.com/bbachi/angular-nodejs-docker-compose>

Terraform Basic Diagram : <https://drive.google.com/file/d/1_cgMNfiWI66dqPIdPtI3SNDx-mzMcXTX/view?usp=sharing>

JenkinsFile Examples :

<https://www.jenkins.io/doc/pipeline/examples/>

# Project 1 - Docker + Jenkins

Checklist

* Github account
* Dockerhub account
* A sample application code (see below)
* Dockerfile (to package sample application)
* Jenkinsfile - build
* And a word doc
  + this is what you upload when you submit.
  + UPload the same doc in all 3 submit areas
  + This doc will include
    - Your commands / actions
    - Screenshots
    - Sample code

The application can be a simple web application.

See here for some examples:

* Sample node app : <https://flaviocopes.com/docker-node-container-example/>
* Simple static html web application using apache : <https://hub.docker.com/_/httpd>
* Hello world nginx : <https://www.docker.com/blog/how-to-use-the-official-nginx-docker-image/>
* Simple python flask app : <https://github.com/shekhargulati/python-flask-docker-hello-world>



Jenkins:

* **Jenkinsfile** for instructions (pipelines)
  + Git pull
  + Some thing else
  + Docker build
    - **Dockerfile**
  + Docker push to dockerhub

# Project 2

# 

Sample angular projects

https://medium.com/bb-tutorials-and-thoughts/angular-local-development-with-docker-compose-13719b998e42

https://github.com/bbachi/angular-nodejs-docker-compose

# Docker Build Process



$ docker build . -t myimg

Cleanup

$ docker system prune