

# Managing Kubernetes

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written by A.K.A whatwant

# Agenda

## Chapter1. Kubernetes Overview

1주차: **Docker and Kubernetes**

## Chapter2. Kubernetes Core

2주차: **Environment & POD**

3주차: **Replication and other controllers**

4주차: **Services**

5주차: **Volumes (Service 보충 수업 포함)**

6주차: **ConfigMaps, Secrets & Kubernetes REST API**

7주차: **Deployment & StatefulSet**

8주차: **Summary**

## Chapter3. Kubernetes Managing

9주차: **Authentication and User Management & Authorization & Admission Control**

10주차: **Networking & Monitoring**

11주차: **Disaster Recovery**

※ 참고 : <https://home.modulabs.co.kr/product/managing-kubernetes/>

# **8 week Summary**

**Why do you  
study  
Kubernetes?**

## 사례: 쿠버네티스 : 마이크로서비스 아키텍처에 대한 구축 사례와 데모를 통한 확실한 개념 잡기

- 영상 : <https://www.youtube.com/watch?v=GOZ6GM287Fc>

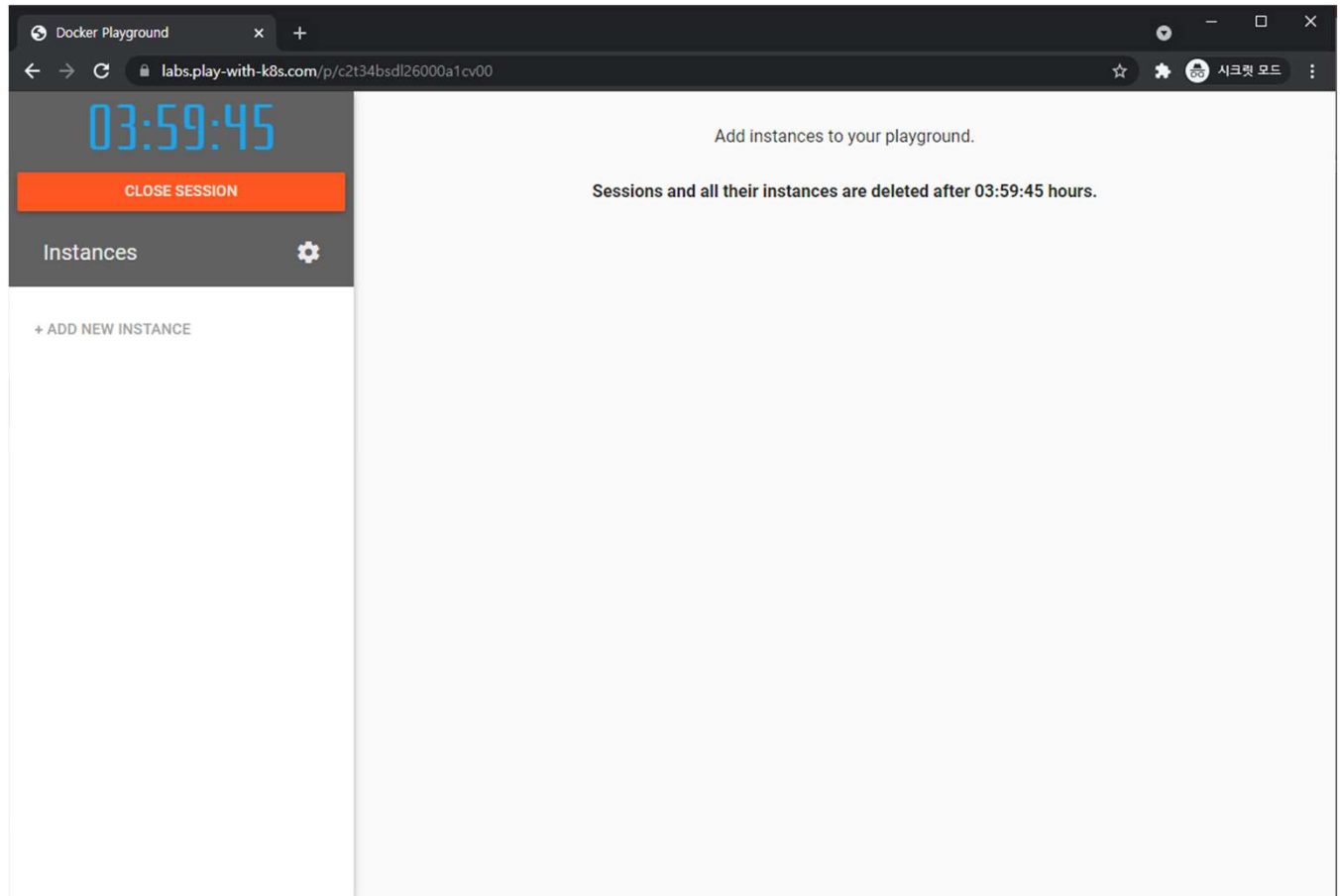
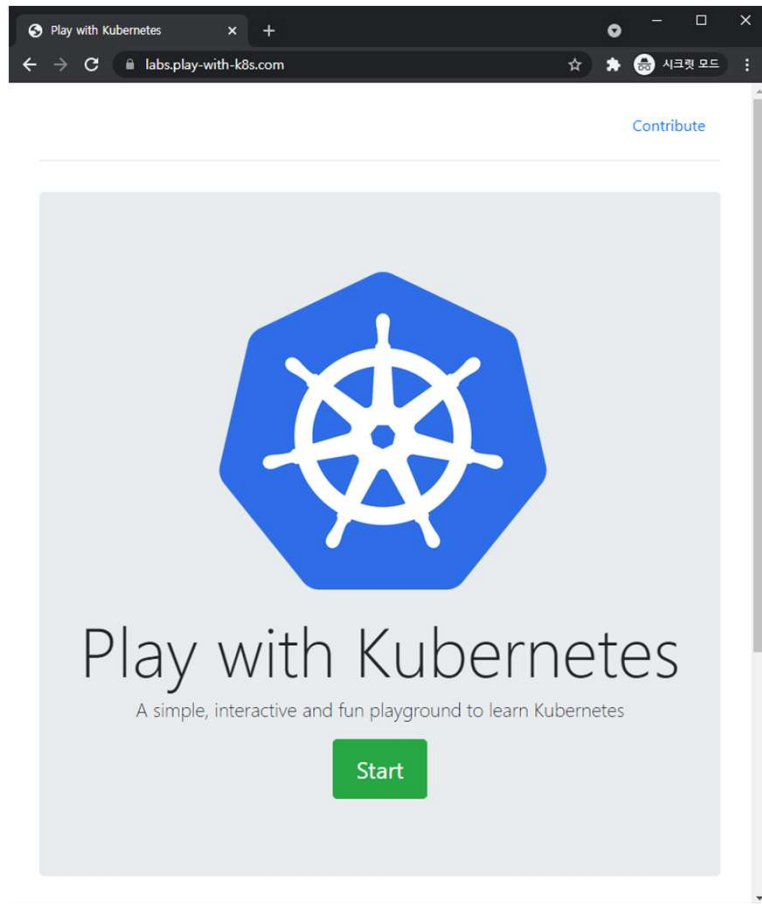


## Kubernetes in 5min



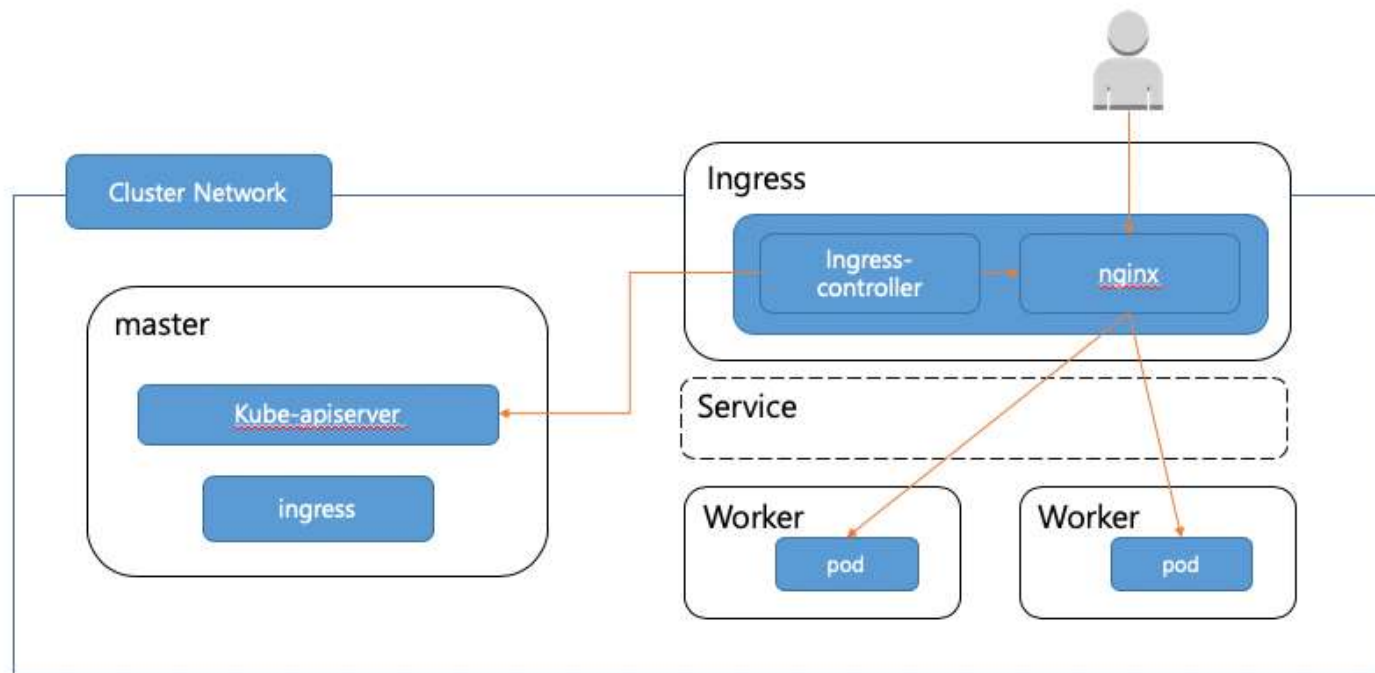
실습 환경 : <https://labs.play-with-k8s.com/>

- 여러 개의 instance 생성 가능, but 4시간 무료 사용
- disk 관련된 제약 등 불편함은 존재



## 사례: Kubernetes를 이용한 서비스 무중단 배포

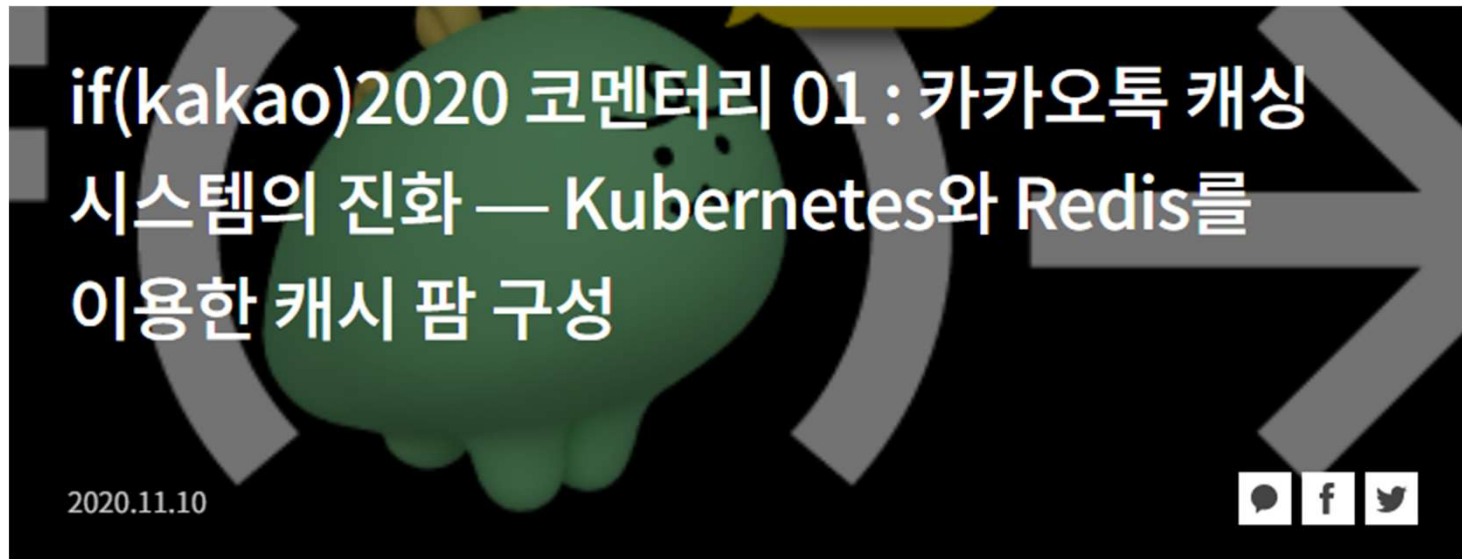
- Kubernetes
- <https://tech.kakao.com/2018/12/24/kubernetes-deploy/>





## 사례: Kubernetes와 Redis를 이용한 캐시 팜 구성

- StatefulSet
- <https://tech.kakao.com/2020/11/10/if-kakao-2020-commentary-01-kakao/>



**Hands-On**

**실습 관련 자료 (별도)**

Next class

**12. 쿠버네티스 API 서버 보안(RBAC)**

**14. 파드의 컴퓨팅 리소스 관리**