



Course 9 – Introduction to Custom Resource Definitions

Take your Kubernetes Knowledge to the Next Level!



Course 9 Introduction

Objectives and Prework



kubernetes

Objectives

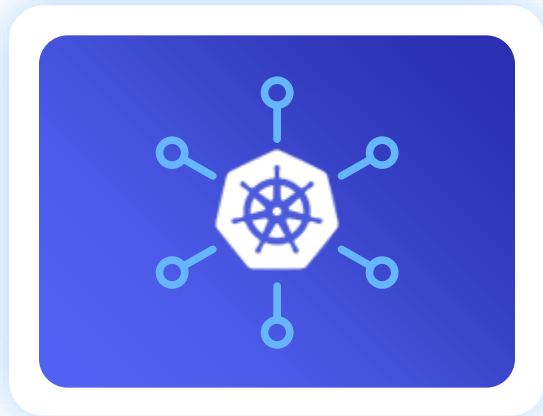
- Learn about how to use a Custom Resource Definition, an extension of the Kubernetes API.
- Learn how Custom Resources customize a particular Kubernetes installation, making Kubernetes more modular and programmable and thus more flexible for the DevOps Community.
- Learn hands on commands to implement Custom Resources.

Prework Requirements

- For all users
 - [Blog for course 9](#)
 - [Slides for course 9](#)
 - [VOD for course 9](#)
- For advanced users
 - [K10 documentation](#)
 - [Free K10 download](#)

Lab 9 - Part 1

CRD Theory



- Custom Resource/ Custom Resource based API defined
- Ways to create Custom Resource API
- Declarative API design
- Security considerations in CRDs
- Parallelism
- Advantages & Disadvantages of CR-Based APIs
- Should you use a CR based API?

Lab 9 – Part 2

CRD Hands On



- The process of creating a Custom Resource (CR) in Kubernetes to track employees in a company.
- Practical experience implementing a CR-based API in a Kubernetes cluster.
- How to create and use CRs, as well as how to manage them using the Kubernetes API.



Thank You