



Course 10 – Kubernetes Autoscaling

Take your Kubernetes Knowledge to the Next Level!



Course 10 Introduction

Objectives and Prework



Objectives

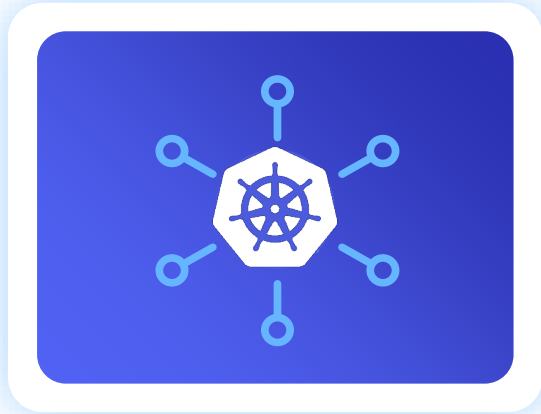
- Introduce the learner to Kubernetes Autoscaling
- Explain the importance of Autoscaling in application performance and resource efficiency
- Study and understand how to implement Horizontal Pod Autoscaler (HPA)
- Study and understand how to Implement Vertical Pod Autoscaler (VPA)
- Configure Custom Metrics

Prework Requirements

- For all users
 - [Blog for course 10](#)
 - [Slides for course 10](#)
 - [VOD for course 10](#)
- For advanced users
 - [K10 documentation](#)
 - [Free K10 download](#)

Lab 10 - Part 1

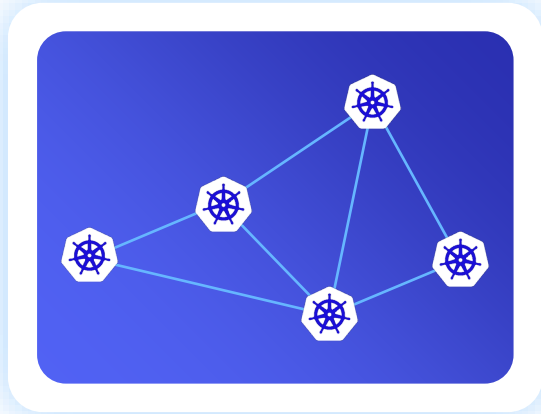
Autoscaling Theory



- Introduction to Autoscaling
- Benefits of Autoscaling
- Custom Metrics – their significance and how to configure them
- Horizontal and Vertical Pod Autoscaling

Lab 10 – Part 2

Autoscaling Hands On



- Deploying a Sample Application with Multiple Replicas
- Configuring automatic horizontal scaling of pods based on CPU utilization
- Familiarizing yourself with HPA and VPA components, including the Metrics Server
- Simulating load and observing the auto scaling process



Thank You