

# Kubernetes Acceleration Lab – DevOps

Accelerate the cloud native journey by mastering Kubernetes and adopting DevOps approach.

This program enables Dev, Ops teams and SRE's to understand the core competencies of Kubernetes & DevOps through well designed lectures and hands-on lab exercises.

The program starts with the basics of containers and gradually deep-dives into the integral concepts of Kubernetes. You will be learning the various competency domains of Kubernetes, gearing up with the right toolkit to solve complex production use-cases.

When the instructor kicks off a particular lab, you can use the below links to navigate to the corresponding lab to complete the hands-on exercise.

## Labs

1. [Dockerize an application](#)
2. [Kubernetes - Deploy Application workloads](#)
3. [Pods](#)
4. [Multi Container Pods](#)
5. [Pod Design](#)
6. [Configmaps & Secrets](#)
7. [Jobs & CronJobs](#)
8. [Resource Quotas](#)
9. Design your deployment
  - a. [Pages Microservice](#)
  - b. [Category Microservice](#)
10. [Helmify](#)
11. [Helmify 2 tier microservice application](#)
12. [Reusable Helm Charts using Helm Templates](#)
13. [Refactoring - Best practices](#)
14. [Sharing Chart Data](#)
15. [Automated Deployments](#)
16. [Automated Testing](#)
17. [Publish Helm Charts to Local Chart Repository](#)
18. [Publish Helm Charts to Public Chart Repository](#)