Kubernetes

Lab Book

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Getting Started

## Overview

This lab book is a guided tour for learning Kubernetes. It comprises To Do’ assignments.

## Setup Checklist

Here is what is expected on your machine in order for the lab to work.

Minimum System Requirements

AWS Unix Machin with Docker installed on it

## Learning More

https://kubernetes.io/docs/home/[/](http://www.objectdb.com/java/jpa/)

**Lab1** - Create Kubernetes Cluster with 2 worker nodes as per the demo given in the installation file.

**Lab2** - Create pod having MySQL 8 container using your Docker hub account in kubernetes. And create a “Product Table with prod\_id, prod\_name and prod\_price with 3 record inserted inside it.

**Lab3** - Create a simple spring boot miroservice application which has Product class with {prodId, prodName, and prodPrice}. Create Product object as follows. Product prod1=new Product(“p01”,”Mobile”,50000); Deploy this miroservice in kubernetes and display above product information from browser**. Note: Use Node port service here**

**Extra Labs**

**Lab4** –Connect MySQL from Lab2 with Spring Boot of Lab 3 to get the product details from MySQL table