

# Hands-On Kubernetes Assignment: Custom Namespace & Deployments

## Task List

### 1. Create a Custom Namespace

- Create a unique namespace for yourself in the cluster.

### 2. Deploy Two Standard Applications

- Deploy a **web-frontend** application using the official nginx image, with 3 replicas, in your namespace.
- Deploy an **api-backend** application using the official httpbin image, with 3 replicas, in your namespace.

### 3. Deploy Your Custom Docker Image

- Use your own Dockerfile from the previous homework to build a Docker image.
- Deploy your image in your namespace as a deployment named **custom-app** with 2 replicas.

### 4. Validate Your Deployments

- List all deployments and pods in your namespace.
- Describe at least one pod from each deployment to verify the correct image and configuration.

### 5. Clean Up

- Remove all the resources you created for this assignment.