

Lesson Plan

Installing the Sample Application

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Introduction to the Sample Application

For this lab, we will be deploying an application called "Yet Another Online Bank" (yaobank). The application will consist of 3 microservices.



1. Customer (which provides a simple web GUI)
2. Summary (some middleware business logic)
3. Database (the persistent datastore for the bank)

All the Kubernetes resources (Deployments, Pods, Services, Service Accounts, etc) for Yaobank will all be created within the yaobank namespace.

Installing the Sample Application

If you are not already on host1, you can enter host1 by using the multipass shell command.

```
multipass shell host1
```

To install yaobank into your kubernetes cluster, apply the following manifest:

```
kubectl apply -f  
https://raw.githubusercontent.com/tigera/ccol1/main/yaobank.yaml
```

Verify the Sample Application

Check the Deployment Status

To validate that the application has been deployed into your cluster, we will check the rollout status of each of the microservices.

Check the customer microservice:

```
kubectl rollout status -n yaobank deployment/customer
```

Example output:

```
deployment "customer" successfully rolled out
```

Check the summary microservice:

```
kubectl rollout status -n yaobank deployment/summary
```

Example output:

```
deployment "summary" successfully rolled out
```

Check the database microservice:

```
kubectl rollout status -n yaobank deployment/database
```

Example output:

```
deployment "database" successfully rolled out
```

Access the Sample Application Web GUI

Now we can browse to the service using the service's NodePort. The NodePort exists on every node in the cluster. We'll use the control node, but you get the exact same behavior connecting to any other node in the cluster.

```
curl 198.19.0.1:30180
```

The resulting output should contain the following balance information:

```
<body>
  <h1>Welcome to YAO Bank</h1>
  <h2>Name: Spike Curtis</h2>
  <h2>Balance: 2389.45</h2>
  <p><a href="/logout">Log Out >></a></p>
</body>
```

Congratulations! You're ready to proceed to the next module: Managing Your Lab.