

### Lesson 08 Demo 04

## **Accessing a Kubernetes Deployment with a Service**

**Objective:** To understand how to interact with a Kubernetes cluster via Azure Cloud Shell and access a deployed application using a service

**Tools required:** Azure management tools

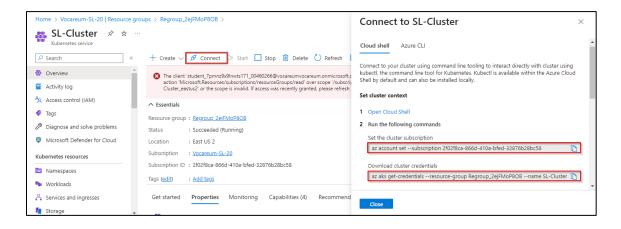
**Prerequisites:** An AKS cluster should already be set up (refer to the steps provided in Lesson 08, Demo 01 for guidance).

#### Steps to be followed:

- 1. Connect Azure Cloud Shell to the Kubernetes cluster
- 2. Create a deployment as a service

#### Step 1: Connect Azure Cloud Shell to the Kubernetes cluster

1.1 Navigate to the **SL-Cluster**. Click on **Connect**, and copy the cluster context and paste it into Cloud Shell



**Note:** To establish a connection between the SL-Cluster and Cloud Shell, follow steps **3.6** to **3.8** from Lesson 08, Demo 03.





Successfully connected to the **SL-Cluster**.

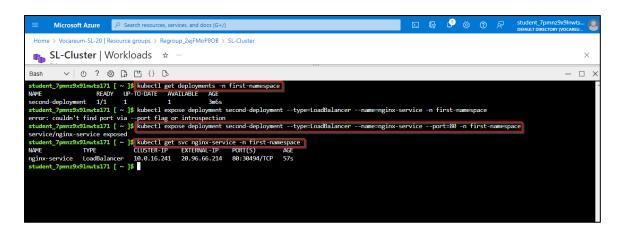
#### **Step 2: Create a deployment as a service**

2.1 To expose the **second-deployment** as a service, run the following commands:

kubectl get deployments -n first-namespace

kubectl expose deployment second-deployment --type=LoadBalancer --name=nginx-service --port=80 -n first-namespace

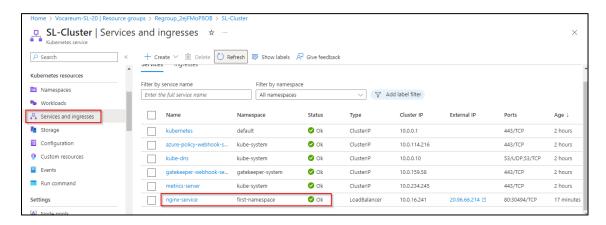
kubectl get svc nginx-service -n first-namespace



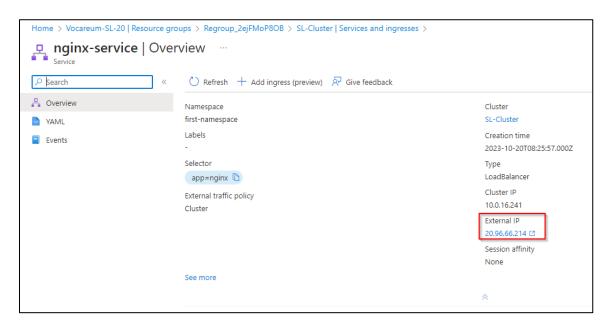
Note: Refer to Lesson 08, Demo 03 for more details on these commands.



2.2 Navigate to the **services and ingresses** section within the SL-Cluster. Click on the refresh icon to view the recently created **nginx-service**.



2.3 Click on the nginx-service > overview and click on the External IP of the service to access the Nginx application





# Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to  $\underline{nginx.org}$ . Commercial support is available at  $\underline{nginx.com}$ .

Thank you for using nginx.

By following these steps, you have successfully connected to an Azure Kubernetes cluster and accessed a deployed application through a service.