**Lesson 8 Demo 5**

**Deploy Application with Load Balancer**

**Objectives:** To deploy the application with the load balancer using AKS bash

**Tools required:** Azure Log Analytics workspace, Azure Kubernetes Service, and Azure Storage Account

**Prerequisites:** Refer to Lesson 8; Demo 1 and 2

**Steps to be followed:**

1. Deploying the application with the load balancer using AKS bash

**Step** **1:** **Deploying the application with the load balancer using AKS bash**

1. Select the given resource group in the subscription and click on the **SL-Cluster** (which was created in lesson 8 Demo 1).  
   Graphical user interface, text, application, email

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1. Graphical user interface, text, application

   Description automatically generatedClick on the **cloud shell** and maximize it (if needed).
2. Text

   Description automatically generatedWrite a code in the **loadbalancer.yaml** file to create a Pod and save it:  
   **vi loadbalancer.yaml**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: deploy-httpd**

**spec:**

**template:**

**metadata:**

**labels:**

**tag: label-httpd**

**spec:**

**containers:**

**- name: httpd**

**image: docker.io/httpd**

**replicas: 2**

**selector:**

**matchLabels:**

**tag: label-httpd**  
  
Text

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1.4 Create a Pod using the following command:

**A screenshot of a computer

Description automatically generated with medium confidencekubectl apply -f loadbalancer.yaml**1.5 Create a load balancer service for the created Pod and save it:

Graphical user interface, text, application

Description automatically generated**vi loadbalancer-svc.yaml  
  
apiVersion: v1**

**kind: Service**

**metadata:**

**name: svc-deploy-httpd**

**spec:**

**type: LoadBalancer**

**selector:**

**tag: label-httpd**

**ports:**

**- name: httpd-port**

**protocol: TCP**

**port: 8080**

**targetPort: 80**  
  
  
  
  
Text

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1.6 Create a service by using the following command:

**Text

Description automatically generatedkubectl create -f loadbalancer-svc.yaml**1.7 Verify the created service by using the following command:

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