**Lesson 8 Demo 7**

**Monitoring Clusters and Node Logs**

**Objective:** To monitor cluster health using Azure Monitor

**Tools required:** Azure Log Analytics workspace and Azure Kubernetes Service

**Prerequisites:** Microsoft Azure account**,** Configured AKS cluster, Kubernetes cluster

**Note:** Please refer to Demo 1 of Lesson 8 “Create a Kubernetes Cluster using AKS”.

**Steps to be followed:**

1. Monitoring cluster health using Azure Monitor
2. Checking logs of a running Pod using Azure Log Analytics
3. Checking logs of a running Pod using Azure Cloud Shell

**Step 1: Monitoring cluster health using Azure Monitor**

* 1. On the Azure portal home page search for **monitor** and select the **monitor service** under the **services** section as shown in the below screenshot:

Graphical user interface, text, application, email

Description automatically generated

* 1. On the **monitor service page**, navigate to Containers under Insights and click on SL-Cluster under the **monitored clusters** tab as shown in the below screenshot:

Graphical user interface, text, application

Description automatically generated

**Step 2: Checking logs of a running Pod using Azure Log Analytics**

2.1 On the **SL-Cluster insights** page, you can check the cluster health through various graphs such as Node CPU utilization %, Node memory utilization %, Node count, and Active Pod count as shown in the below screenshots:

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated

Graphical user interface, application

Description automatically generated

**Step 3: Checking logs of a running Pod using Azure Cloud Shell**

3.1 To monitor the node logs select the nodes option as shown in the below screenshot:

Graphical user interface, application, Word

Description automatically generated

3.2 You can click on the node which you want to monitor, and you will see the monitoring window with the name **aks-agentpool** as shown in the below screenshot:

Graphical user interface, text, application, email

Description automatically generated

* 1. You can also monitor different metrics by selecting them one by one:

Graphical user interface, text, application

Description automatically generated