

**Viewing diagnostic logs in Cosmos DB**

Template Version: 2.0

**Introduction**

During this lab, you will learn how to build a simple query in Log Analytics to view the diagnostic logs of your Azure Cosmos DB Account.

**Estimated Time**

20 minutes.

**Objectives**

At the end of this lab, you will be able to:

         View and query logs in Azure Log Analytics for Cosmos DB

Lab: Viewing diagnostic logs in Cosmos DB

During this lab, you will learn how to build a simple query in Log Analytics in Cosmos DB.

**Exercise 1: Ensure that you have enabled diagnostic logs for Azure Cosmos DB**

This exercise shows how to ensure that you enabled diagnostic logging in your Azure Cosmos DB that you built in ***Managing data in Cosmos Db via the SQL API*** Lab.

**Tasks**

**1.**      **Connect to your lab machine**

1.       Connect to the lab machine.

2.       Launch a web browser and open the Azure portal ([https://portal.azure.com](https://portal.azure.com/)).

**2.**      **View the Log Analytics Resource you previously created**

1.       In the Azure portal, click **All Resources**. In the list of resources, look for the **Log Analytics** Resource you had previously created. Make sure that it is created and present. If you don’t find it, redo step 3 in exercise 1 of **Managing data in Cosmos Db via the SQL API** lab.

2.       Select the Log Analytics resource.

*Exercise 1 has been completed.*

**Exercise 2: View audit logs in Log Analytics**

This exercise shows how to view logs in Log Analytics.

**Tasks**

**1.**      **Navigate to the Log Search to perform simple search queries**

1.       In the Azure Portal, you should be in the Log Analytics resource you created.

2.       To view your diagnostic data in Log Analytics, open the **Log Search** page from the left menu or the **Management** area of the page.

3.       Now that you've enabled data collection run the following log search example by using the new query language to see the ten most recent logs AzureDiagnostics | take 10.

**2.**      **Navigate to Advanced Analytics to build and visualize queries**

1.       Underneath the *Run* button click **Advanced Analytics.**

2.       In the main workspace, click on the new tab button to open a new query window.

3.       Type the following query in the query window and select **Run.**

AzureDiagnostics

| summarize count(statusCode\_s) by statusCode\_s, bin(TimeGenerated, 2m)

This query returns the volume of different status codes over time. It shows the count of status codes for every 2 minute period of time.

**3.**      **Visualize your query**

1.       A results pane should appear in the bottom of the screen. At the top of this pane, click on the **Chart** toggle.

2.       To the right of the **Chart** toggle, you will be able to select a chart type. Click on the **StackedColumn** button and select a **Line Chart**.

**4.**      **Try building your own queries or view more sample queries**

1.       In the left-hand column, you will see the query object explorer. Expand **LogManagement > AzureDiagnostics** to view some of the properties available to query against.

2.       You may also add filters and refine your query using the **Table** view and clicking on various properties in the **Results** pane.

The Results Pane is fully interactive and can help you refine your queries by helping you build more detailed queries based on your output.

4.       To perform additional queries and learn more about how to monitor your Azure Cosmos Db container, click on the following link.  <https://docs.microsoft.com/en-us/azure/cosmos-db/logging#view-logs-in-log-analytics>

5.       Navigate to the **View logs in Log Analytics** Section and look over the **Queries** subsection. Follow the steps listed to look over different queries you can use.

*Exercise 2 has been completed.*