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LAB 13

AZURE MONITOR

**INTRODUCTION**

This will help me to create a proof of concept of monitoring virtual machine performance. Specifically, you want to:Configure a virtual machine such that telemetry and logs can be collected, Show what telemetry and logs can be collected and, Show how the data can be used and queried.

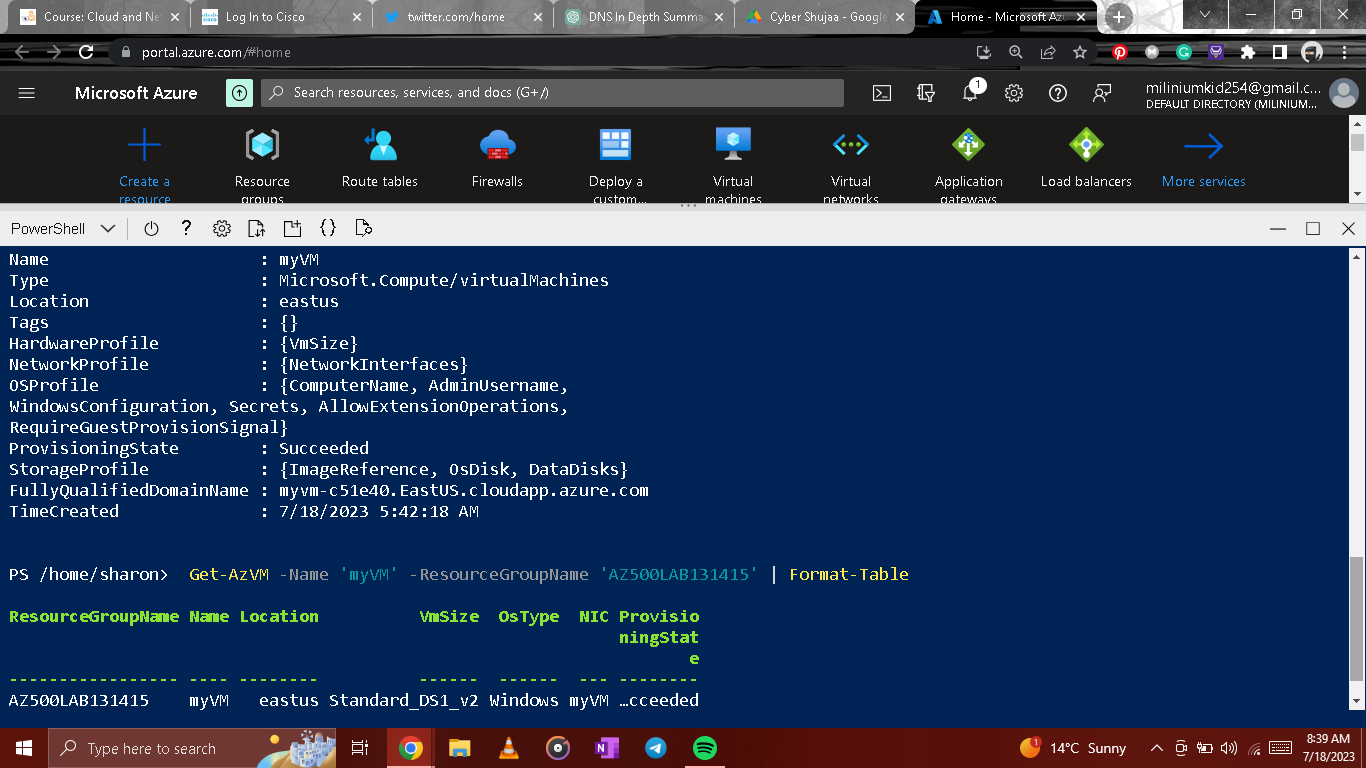
**LAB TASKS**

Exercise 1: Collect data from an Azure virtual machine with Azure Monitor

Task 1: Deploy an Azure virtual machine

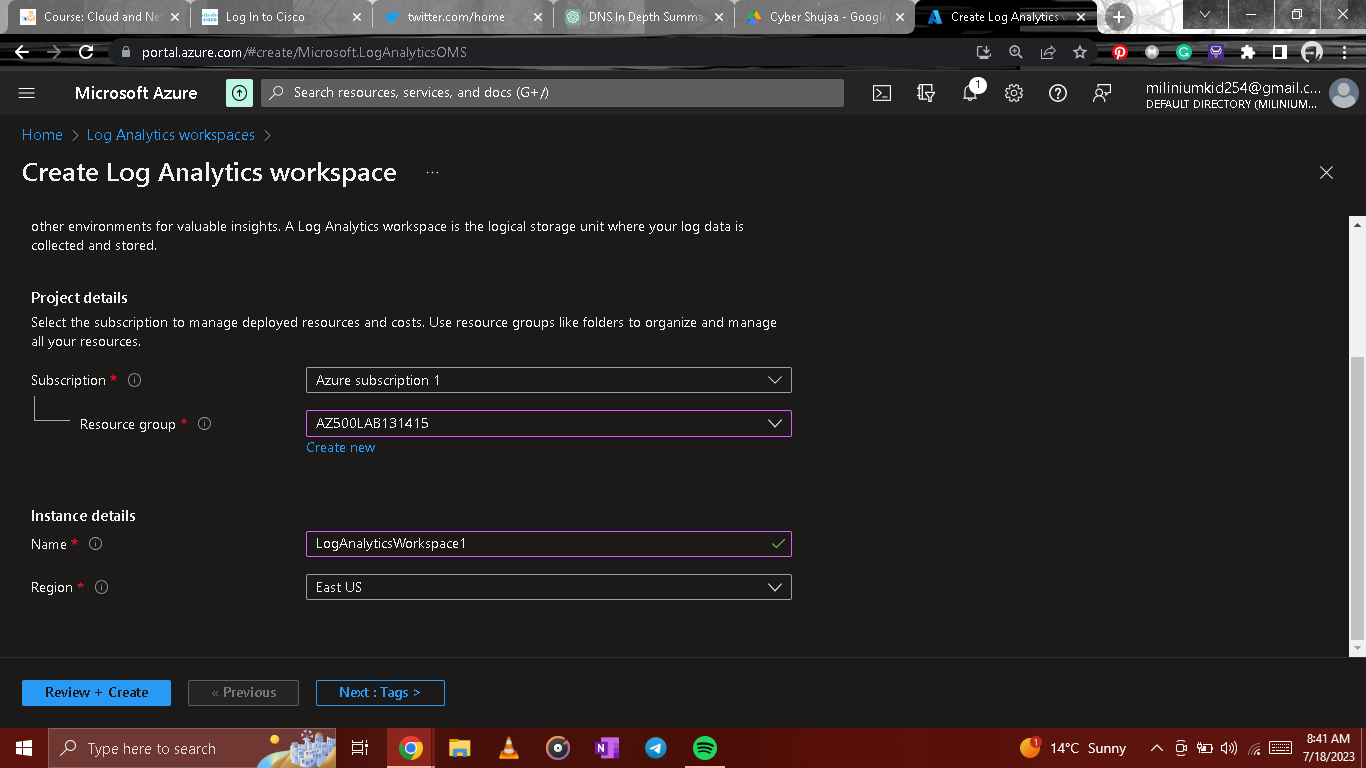
Creating a resource group and to create a new Azure virtual machine.

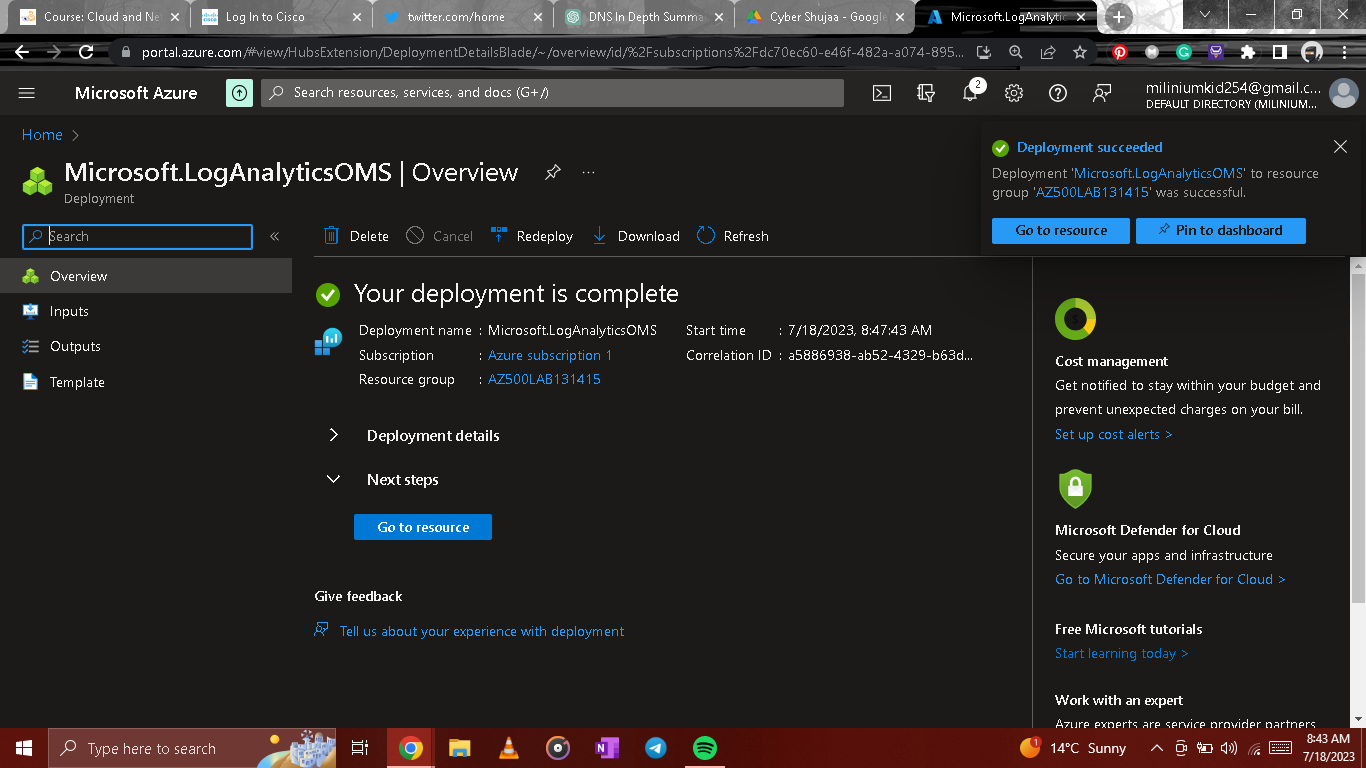
The credentials are: user: localadmin password: AnotherOne1



Task 2: Create a Log Analytics workspace

create a Log Analytics workspace.

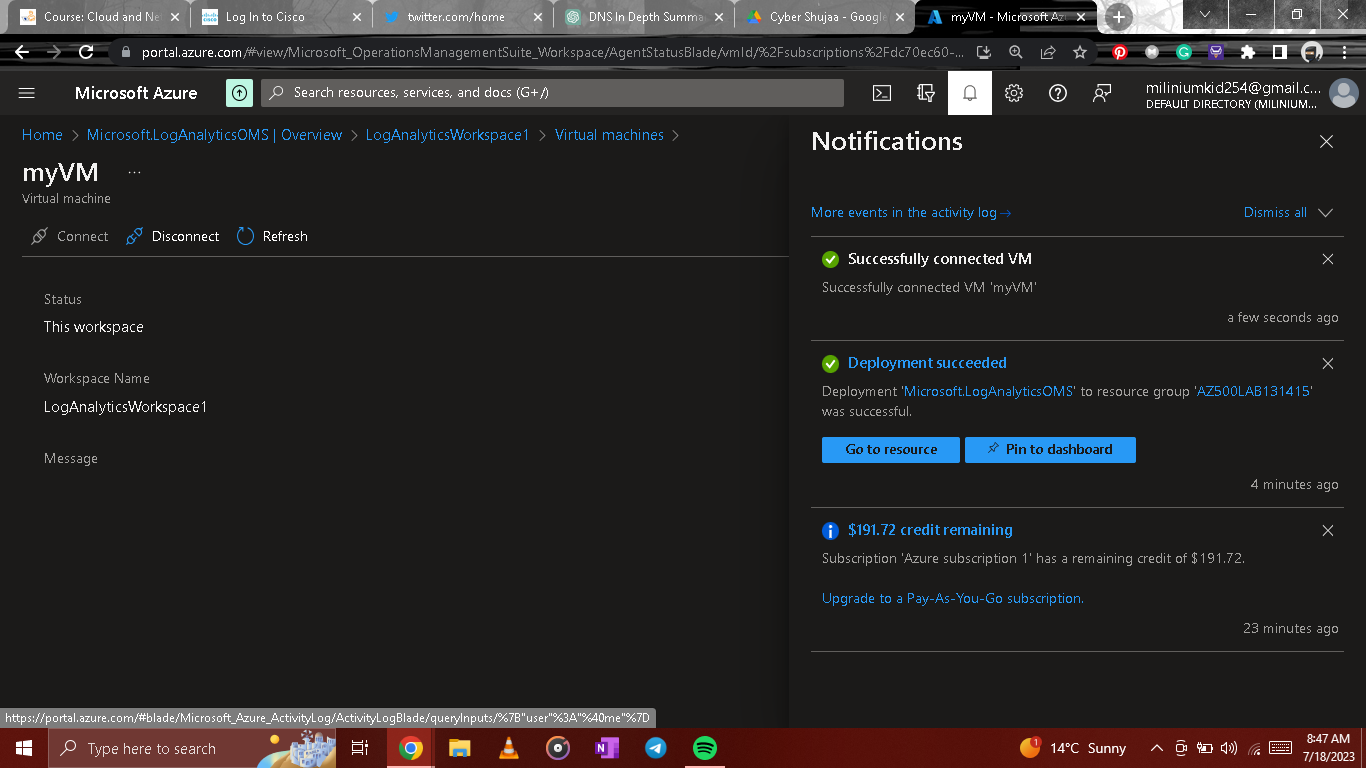




Task 3: Enable the Log Analytics virtual machine extension

enable the Log Analytics virtual machine extension. This extension installs the Log Analytics agent on Windows and Linux virtual machines. This agent collects data from the virtual machine and transfers it to the Log Analytics workspace that you designate. Once the agent is installed it will be automatically upgraded ensuring you always have the latest features and fixes.

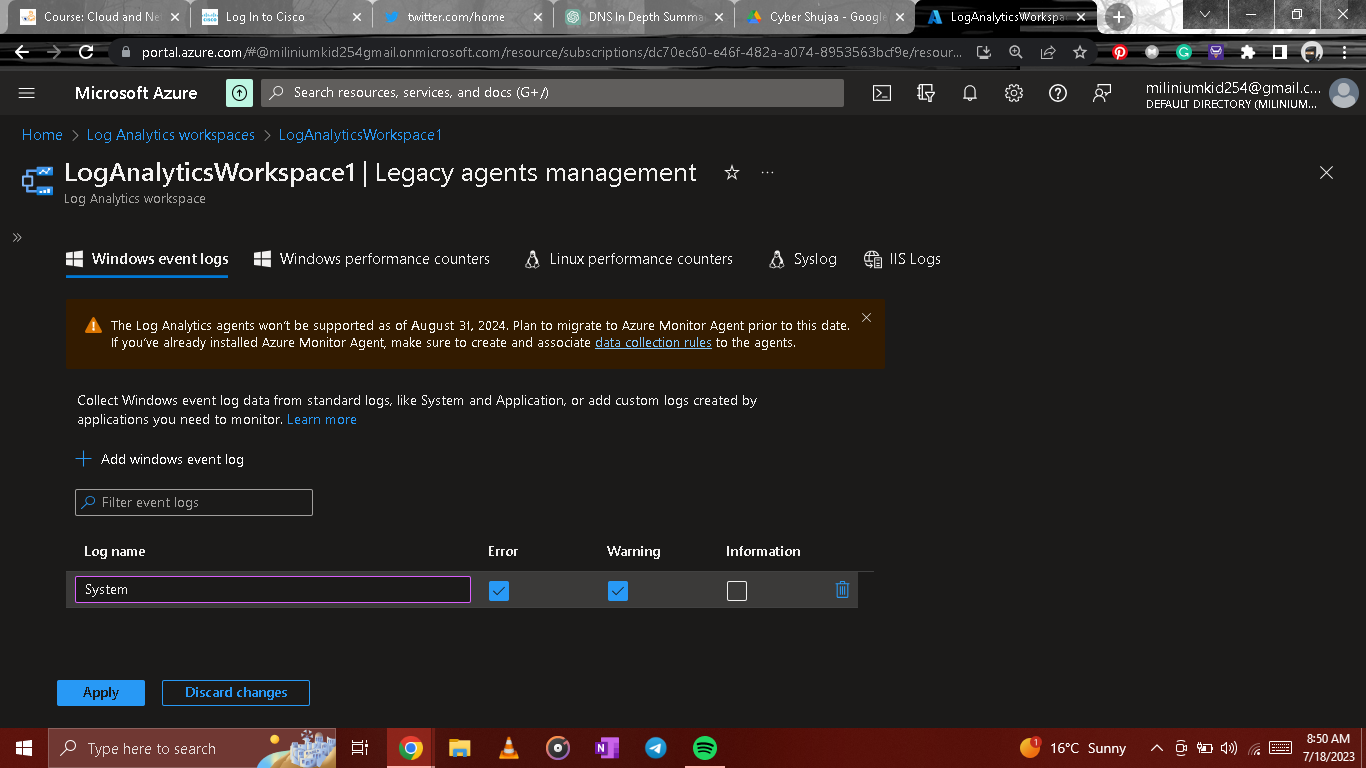
Connecting the virtual machine



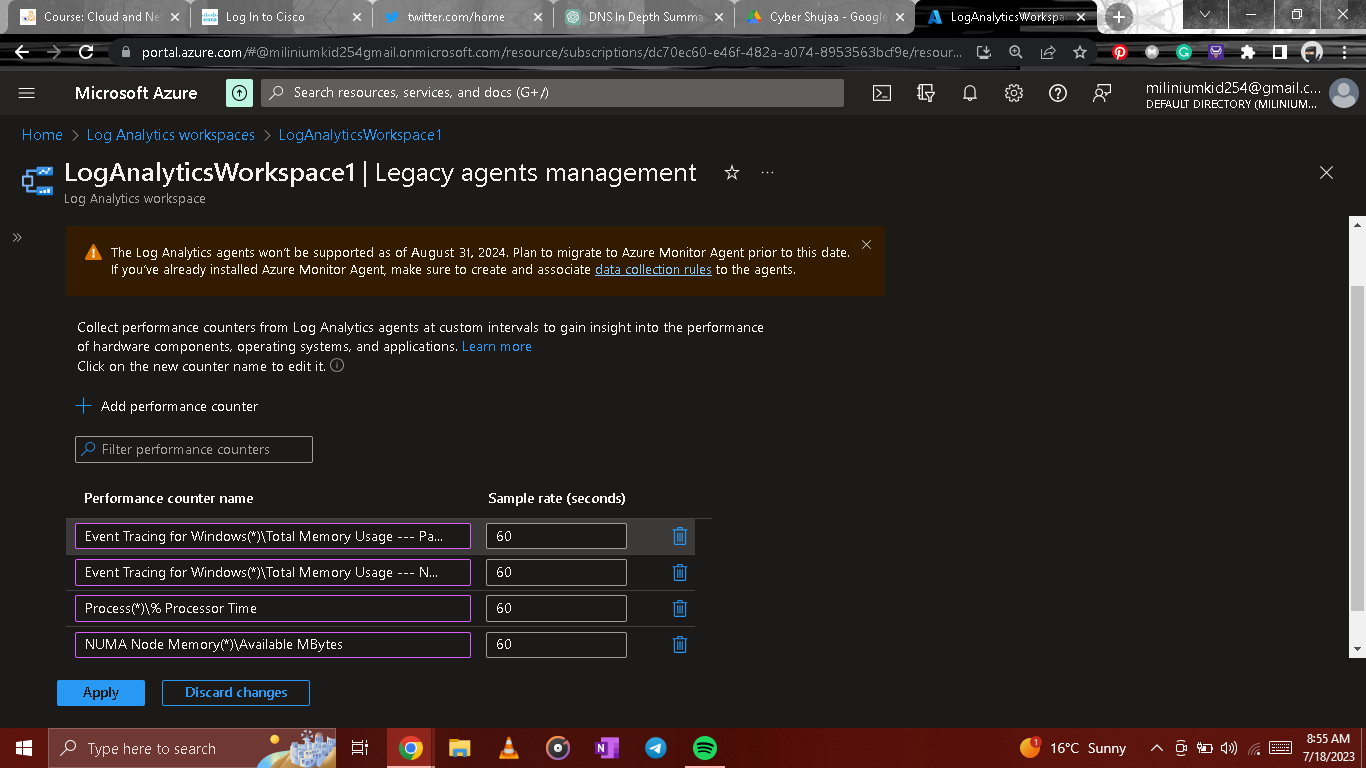
Task 4: Collect virtual machine event and performance data

configure collection of the Windows System log and several common performance counters. You will also review other sources that are available.

Windows event logs



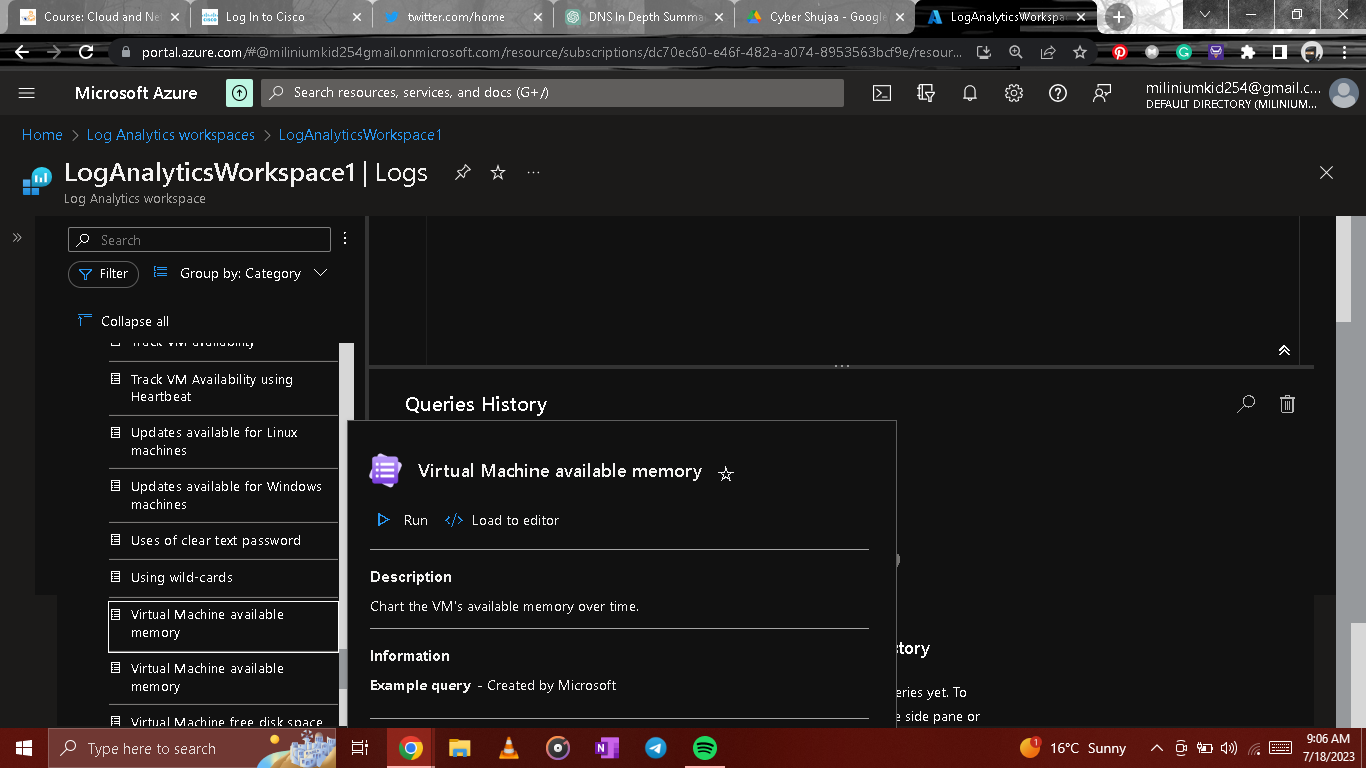
Windows performance counters



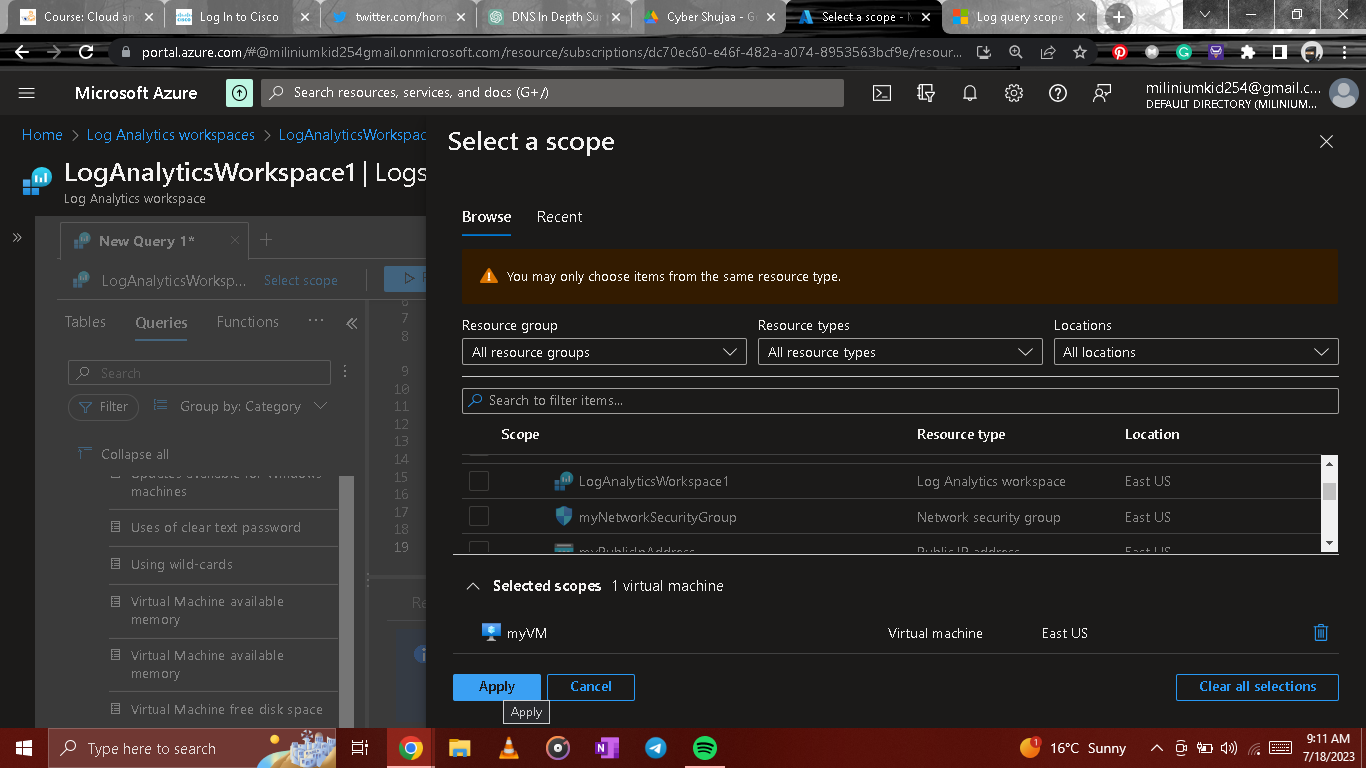
Task 5: View and query collected data

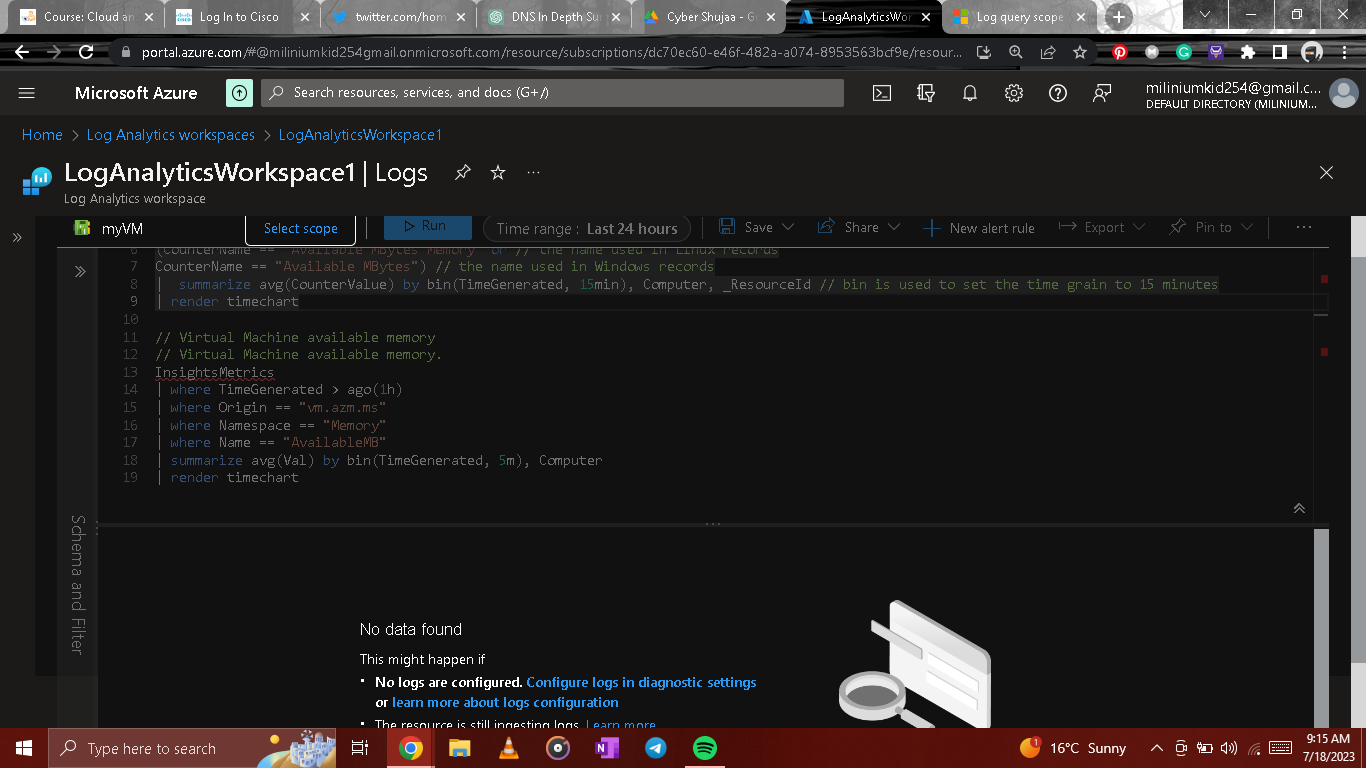
run a log search on your data collection.

To check virtual machine memory usage

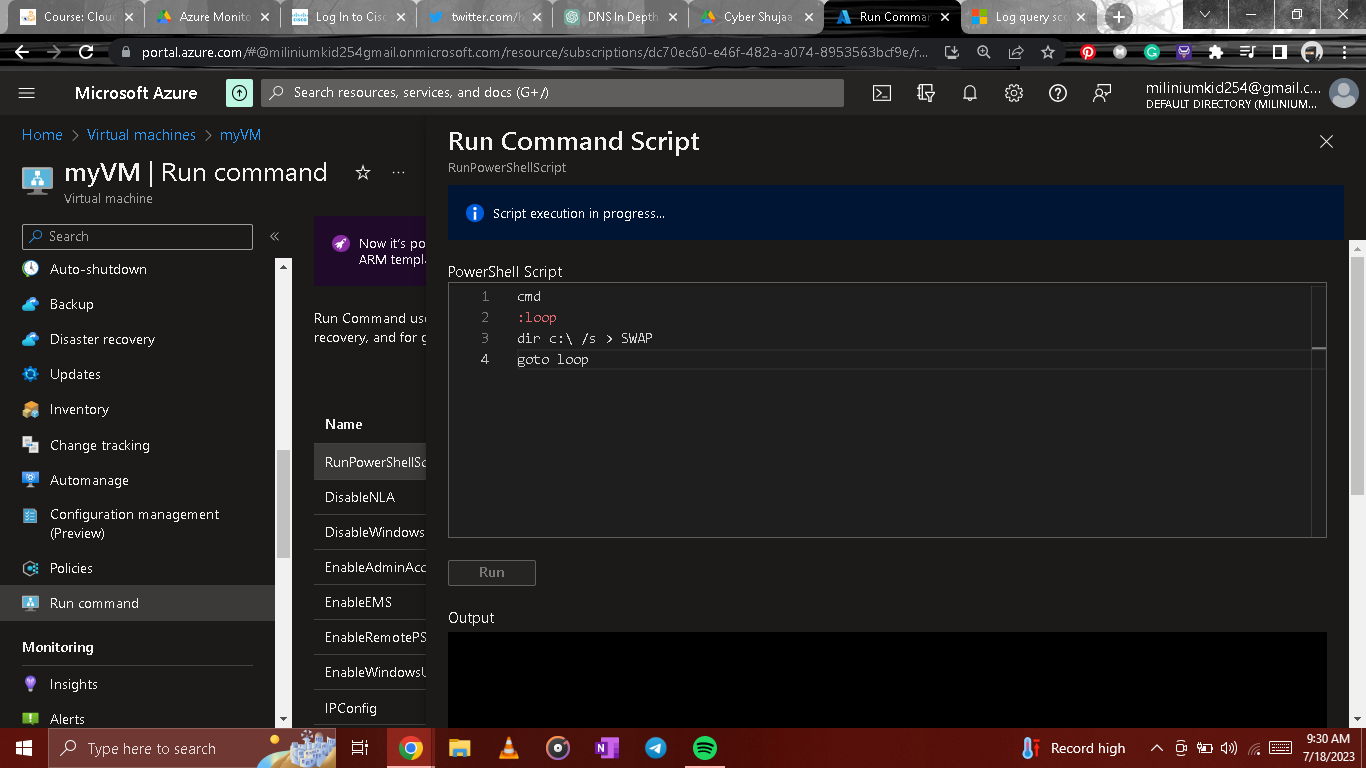


Changed the scope to myVM

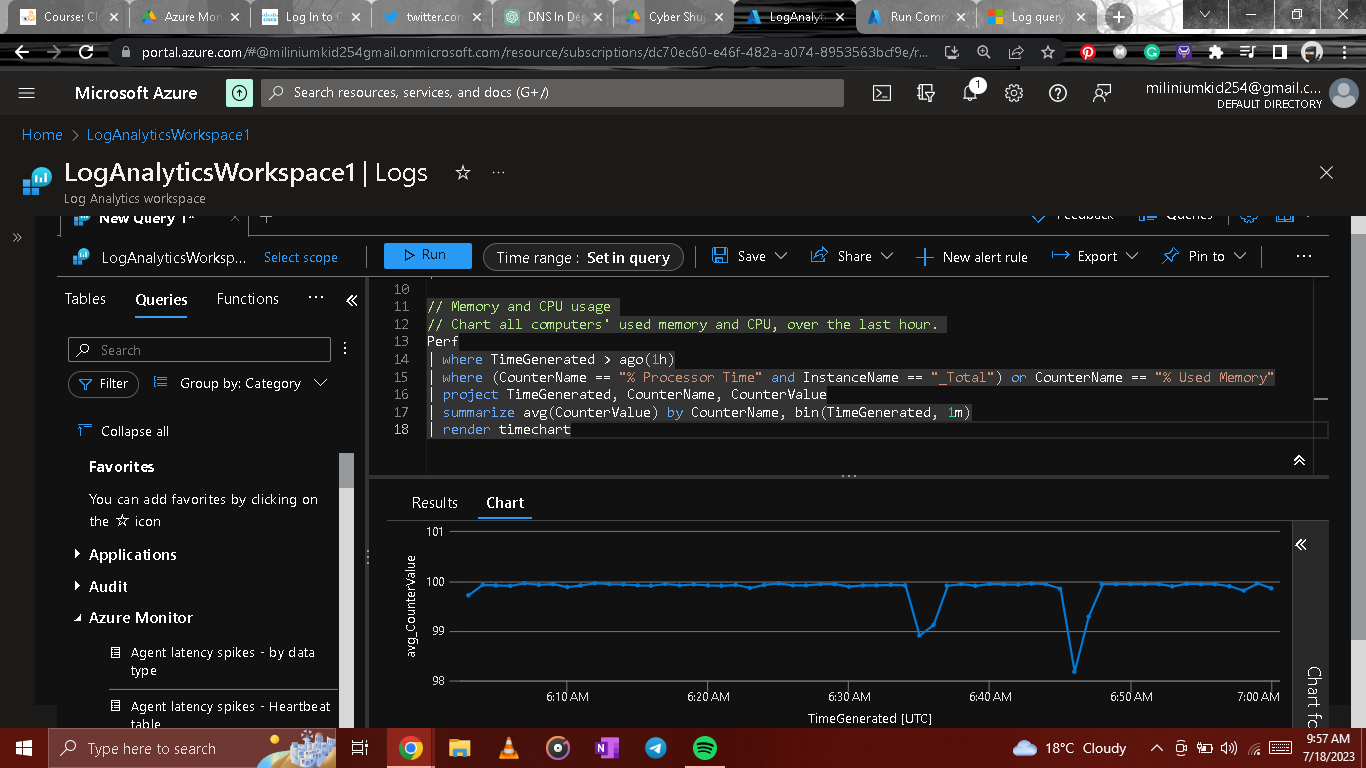


Since the VM was just created, after running the query no data was found 

Running the command on the virtual machine



Results of chart analytics of the query



**CONCLUSION**

This lab has helped me understand how to look at the analytics needed to monitor resources on Microsoft Azure. Monitoring is important since this is how we can observe what is normal and be able to quickly identify any abnormalities that may be a sign of a security breach or concern.