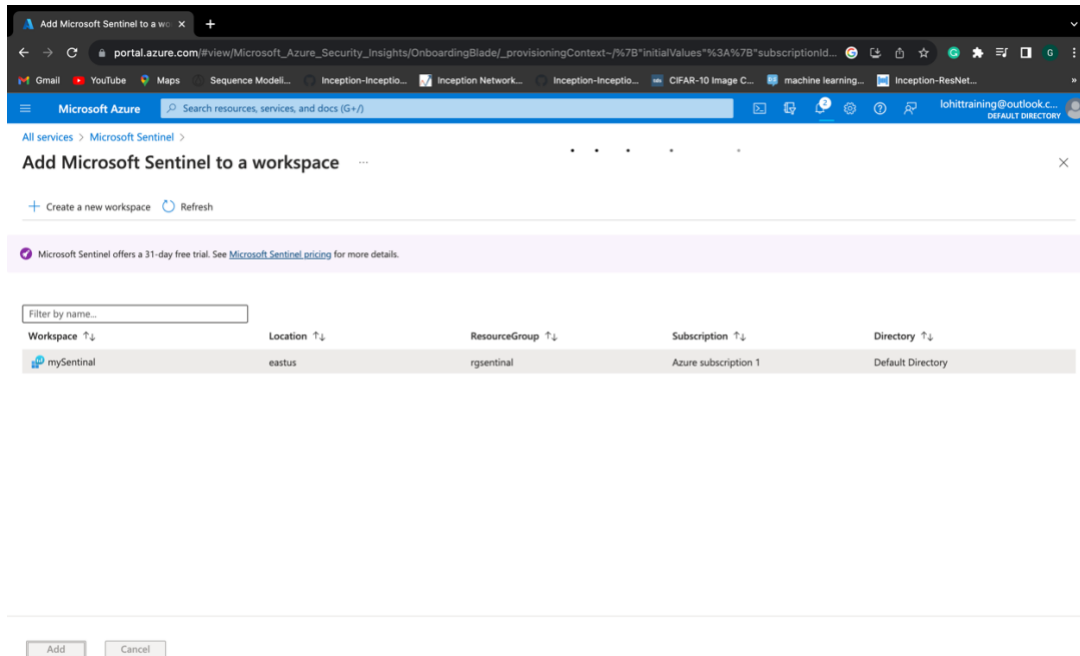
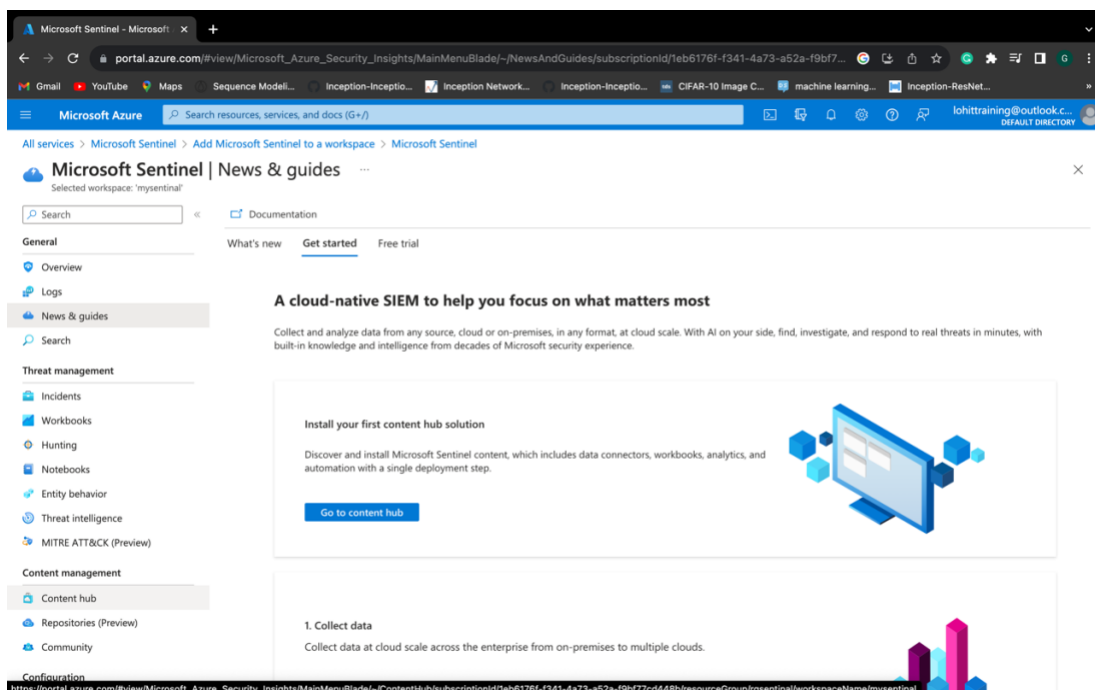


Configuring Microsoft Sentinel to Ingest data and Detect Threats

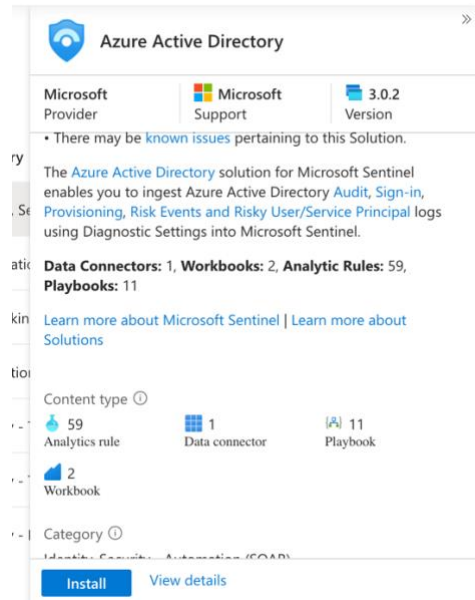
Step 1: I started by creating a log analytic workspace to add my in-Sentinel workspace



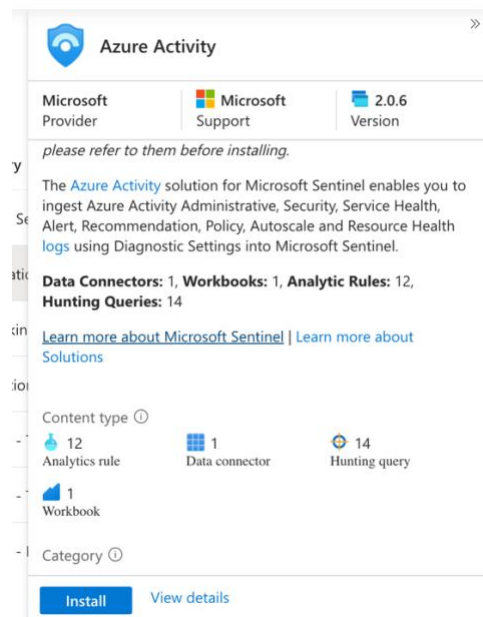
Step 2: Install hub content solutions




In this step, I installed four Microsoft offered solutions which are mentioned below Starting with *Microsoft Azure Active Directory* for identity and access management data




Then *Microsoft Azure Activity* for creating policy that should be followed




Microsoft Defender 365

 Microsoft 365 Defender

Microsoft Provider

 Microsoft Support

 3.0.0 Version

Microsoft Security Research and Microsoft Sentinel community contributions.

Underlying Microsoft Technologies used:


This solution takes a dependency on the following technologies, and some of these dependencies either may be in [Preview](#) state or might result in additional ingestion or operational costs:


a. [Azure Monitor HTTP Data Collector API](#)


Data Connectors: 1, Workbooks: 1, Analytic Rules: 8, Hunting Queries: 4


[Learn more about Microsoft Sentinel](#) | [Learn more about Solutions](#)

Content type ⓘ

 9 Analytics rule

 1 Data connector


 4 Hunting query

 3


Install


[View details](#)

Windows Security Event.

 Windows Security Events via AMA

Disconnected Status

 Microsoft Provider

 -- Last Log Received

Description

You can stream all security events from the Windows machines connected to your Microsoft Sentinel workspace using the Windows agent. This connection enables you to view dashboards, create custom alerts, and improve investigation. This gives you more insight into your organization's network and improves your security operation capabilities.

Last data received

--

Content source ⓘ

Version

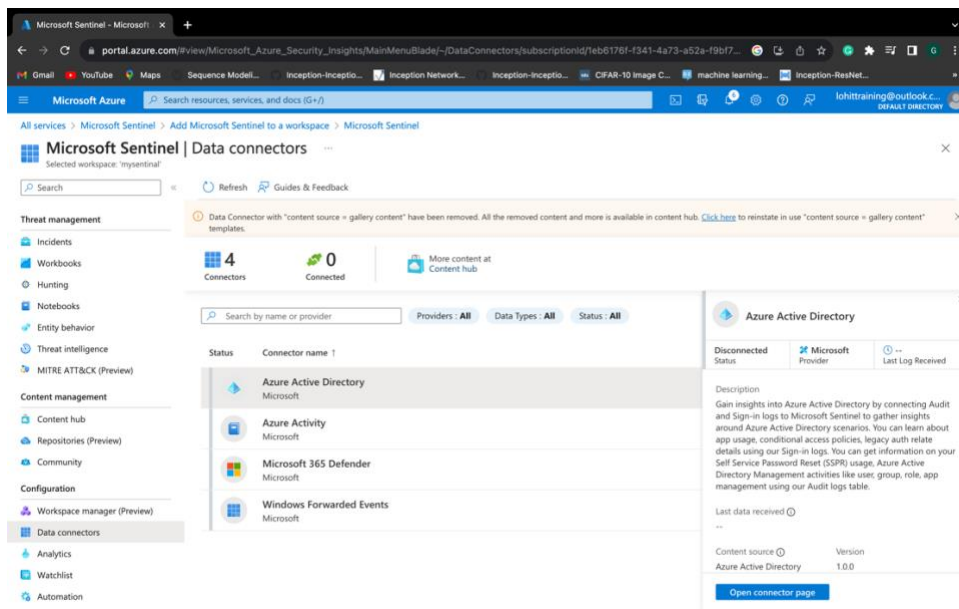
Windows Security Events

1.0.0

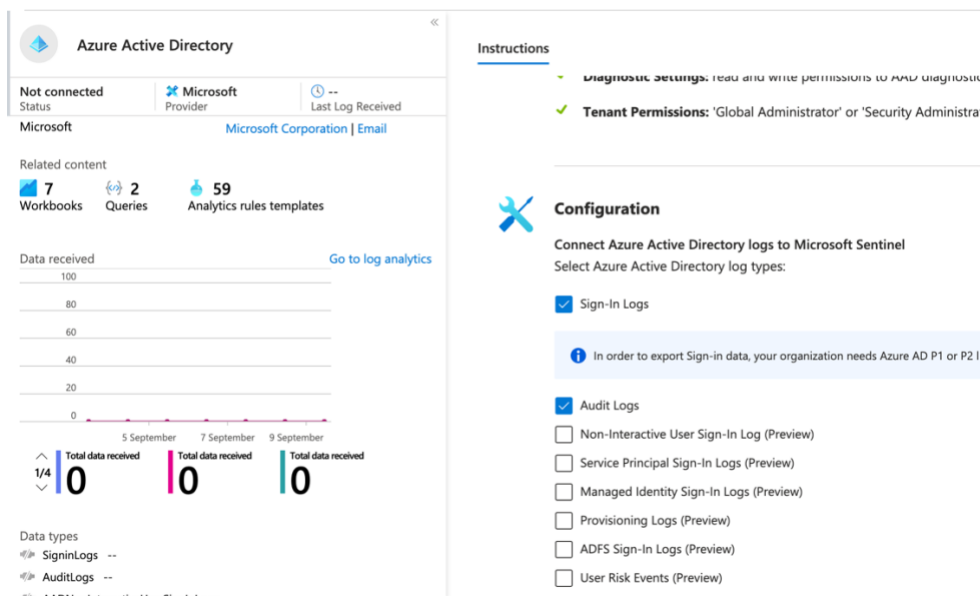
Author

Supported by

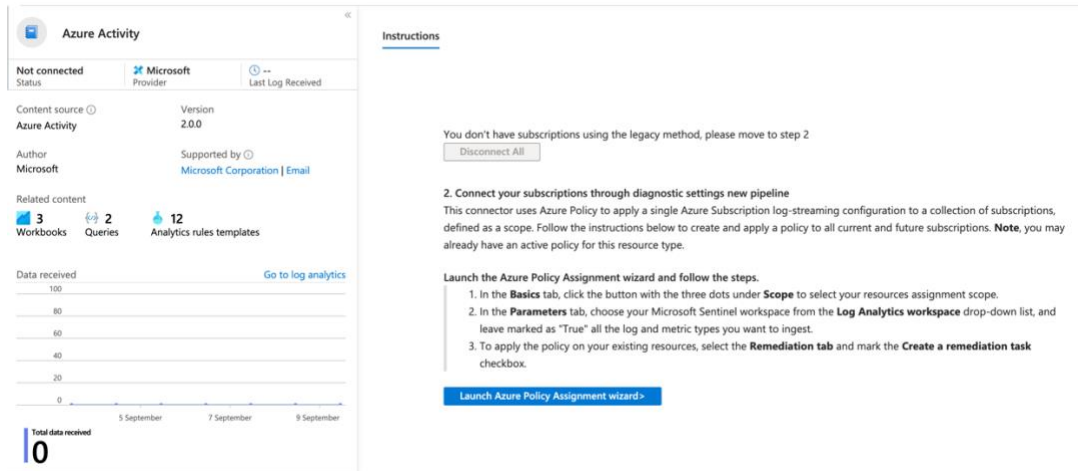
Open connector page



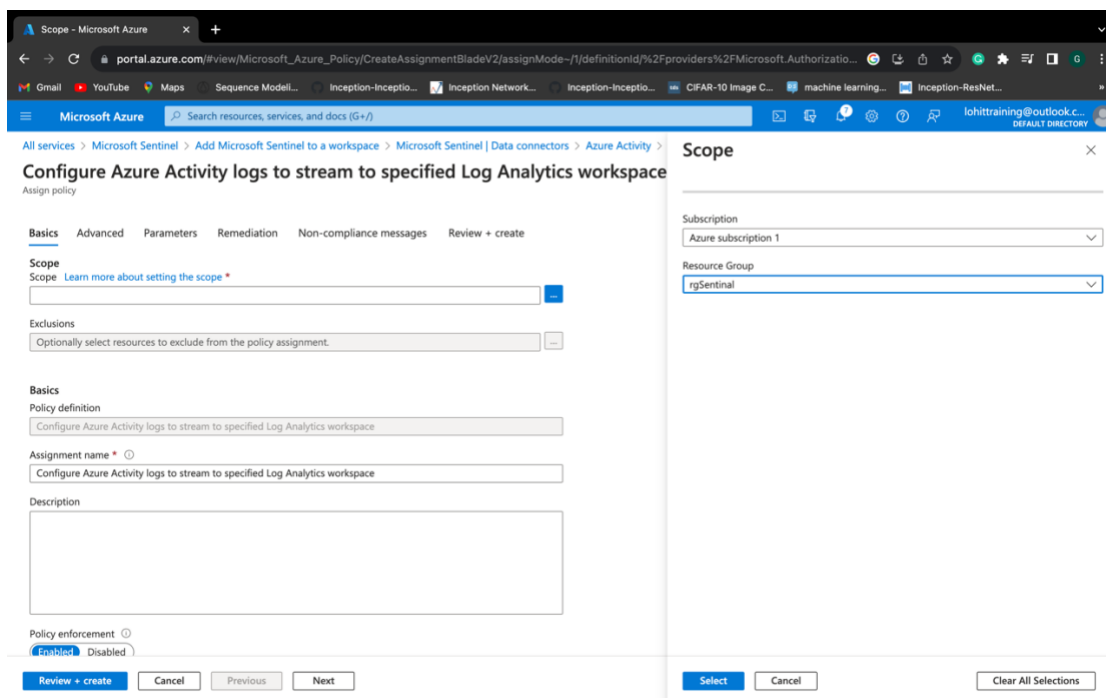
Step 3: I explored for a little while and then I started configuring data connectors, starting with Active directory, which enables a check box configuration. Here I get to choose the types of data I want ingested.



Next, I moved on to Azure activity, which is a little different from the connectors. For this, I needed to create a policy that the organization must comply to.



Once redirected, I had to figure out the scope and parameters of the policy which can be done by selecting the respected resource group



One of the most important settings here was remediation. Meaning if you want to implement this policy starting with the new devices or for all the previously existing devices as well. Remediation allows to include previous devices into the policy which by default would not be included.

Basics Advanced Parameters **Remediation** Non-compliance messages Review + create

By default, this assignment will only take effect on newly created resources. Existing resources can be updated via a remediation task after the policy is assigned. For deployIfNotExists policies, the remediation task will deploy the specified template. For modify policies, the remediation task will edit tags on the existing resources.

☒ Create a remediation task ⓘ

Policy to remediate

Configure Azure Activity logs to stream to specified Log Analytics workspace

Managed Identity

Policies with the deployIfNotExists and modify effect types need the ability to deploy resources and edit tags on existing resources respectively. To do this, choose between an existing user assigned managed identity or creating a system assigned managed identity.

[Learn more about Managed Identity.](#)

☒ Create a Managed Identity ⓘ

Type of Managed Identity ⓘ

☒ System assigned managed identity ☐ User assigned managed identity

System assigned identity location *

East US

Permissions

Once all the setting we configured, I then submitted my configurations. It took some time, but I got the successful creation message.

✓ Remediation task creation succeeded

Creating remediation task '994e5ec0-8e48-4711-abfe-3bf0bf664013' was successful.

a few seconds ag

✓ Role Assignments creation succeeded

All role assignments were created successfully.

a few seconds ag

✓ Creating policy assignment succeeded

Creating policy assignment 'Configure Azure Activity logs to stream to specified Log Analytics workspace' in 'Azure subscription 1/rgSentinal' was successful. Please note that the assignment takes around 5-15 minutes to take effect.

a few seconds ag

Finally, I moved to configure the Windows security events uses *Data collection rules* to collect data. So I had to create a DCR. Here I had an option to choose what kinds of data I wanted to send across which includes all data, alert data or custom.



Configuration

Enable data collection rule

Security Events logs are collected only from **Windows** agents.

Refresh ⓘ

Rule name	Created by	Event filter type
-----------	------------	-------------------

No data collection rule found

[+Create data collection rule](#)

Step 4: Now, I started working on enabling and creating analytic rules.

The screenshot shows the Microsoft Sentinel Analytics interface. The left sidebar contains navigation links for Threat management, Content management, and Configuration. The main area displays a table of active rules. The table has columns for Severity, Name, Rule type, Status, Tactics, and Techniques. One rule is listed: 'Advanced Multi...' with a severity of High, rule type of Fusion, and status of Enabled. The right sidebar shows a message: 'No analytics rules selected. Select an analytics rule to view more details.'

Severity	Name	Rule type	Status	Tactics	Techniques
High	Advanced Multi...	Fusion	Enabled	Col... +11	

Here I have had access to a couple of pre-defined templated which were helpful in for the first time in creating these rules. These analytic rules co-relates the data collected from your data connectors and compares them to the rules create to determine its alert based on which incidents are reported.

Step 5: I also wanted to automate a few processes for which I used automation rules. This can also be done while creating analytic rules, but I wanted to do this separately to document.

Create new automation rule ×

Trigger

When incident is created ▼

Conditions

If

Incident provider

Equals ▼

All ▼

AND

Analytic rule name

Contains ▼

All ▼

+ Add ▼

Actions ⓘ

Change severity ▼

High ▼

+ Add action

Rule expiration ⓘ

Indefinite 📅

Time

Order ⓘ

1

Apply

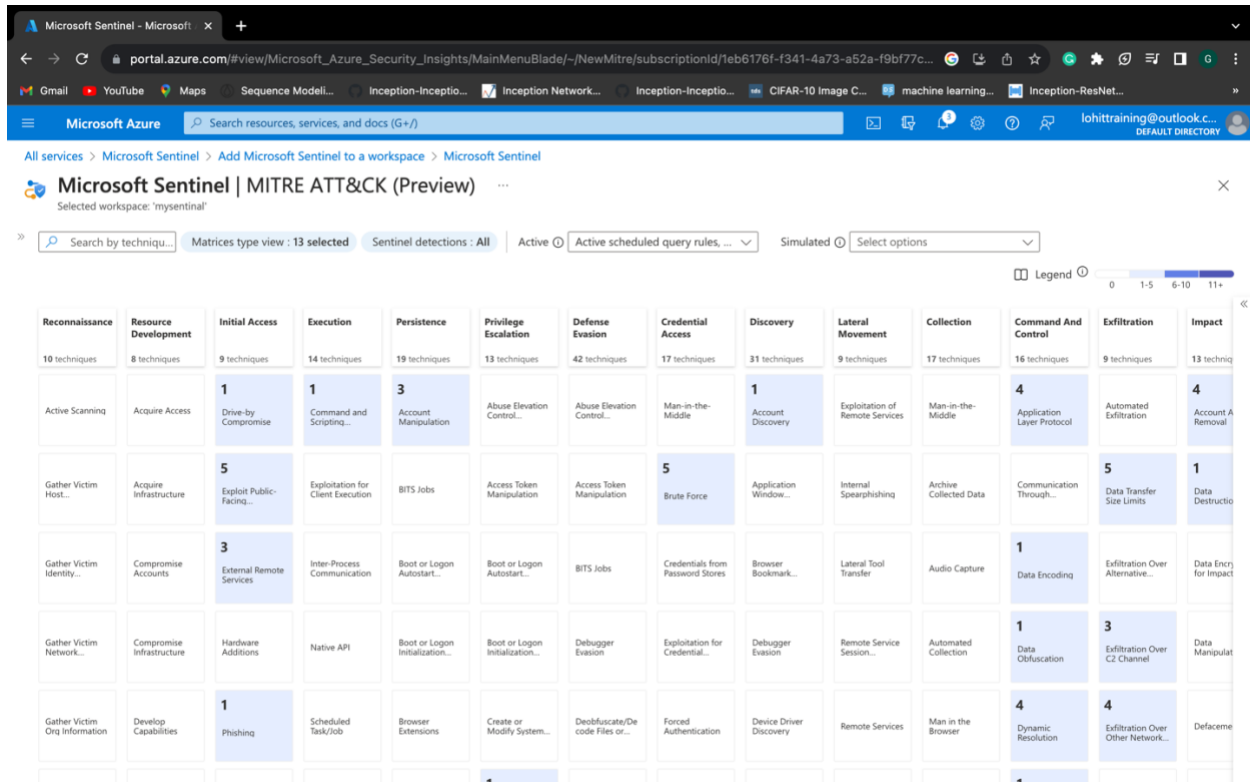
Cancel

This rule takes the appropriate actions defined by me, based on the logic, which will also be decided by me. I also got to select the time for which this rule can be active.

Automation rules Active playbooks Playbook templates (Preview)

Analytics offers Automation rules and playbooks. Automation rules are easy tasks at management level whereas playbooks use azure logic to allow more control and function related to incident.

Step 6: Once, all that was done I wanted to see the coverage of my security. For this, sentinel has *MITRE ATT&CK*. This provides a cohesive look of your security posture based on the collection all the data from a non-profit organization.



Step 7:

Microsoft Sentinel | Workbooks

Selected workspace: 'mysentinel'

Search: [Search]

Refresh + Add Workbook Guides & Feedback

My workbooks: 0 Templates: 8 Updates: 0

More content at Content hub

Name	Status	Source name
Azure Activity	--	Azure Activity
Azure AD Audit logs	--	Azure Active Di...
Azure AD Sign-in logs	--	Azure Active Di...
Event Analyzer	--	Windows Secur...
Identity & Access	--	Windows Secur...
Microsoft 365 Defender MDOWorkbook	--	Microsoft 365 ...
Microsoft Defender For EndPoint	--	Microsoft 365 ...
Microsoft Defender For Identity	--	Microsoft 365 ...

Azure Activity

Not saved

Description: Gain extensive insight into your organization's Azure Activity by analyzing, and correlating all user operations and events. You can learn about all user operations, trends, and anomalous changes over time. This workbook gives you the ability to drill down into caller activities and summarize detected failure and warning events.

Required data type: AzureActivity

Relevant data connectors: AzureActivity

Content source: Azure Activity

Template version: 2.0.0

Author: Microsoft

Supported by: Microsoft Corporation | Email

View Template Save

I also want to see the data depicted in a visual form which makes it easier for me and anyone else who looks at it. For which I create a workbook which is a graphical tool to analyze data. Workbook has some predefined templates that can be used to create your workbook

The screenshot displays the Microsoft Azure portal interface. On the left, a sidebar titled 'Resource groups' shows a list of groups, with 'rgSentinal' selected. The main content area is for the 'rgSentinal' resource group. It includes a search bar, action buttons (Create, Manage view, Delete resource group, Refresh, Export to CSV, Open query), and a 'JSON View' link. The 'Essentials' section provides details about the subscription, including the ID '1eb6176f-f341-4a73-a52a-f9bf77cd448b' and location 'East US'. Below this, the 'Resources' section shows a table of resources within the group.

Name	Type	Location
mySentinal	Log Analytics workspace	East US
rgsentinalDCR	Data collection rule	East US
SecurityInsights(mysentinal)	Solution	East US

All the resources and security we added is completely isolated under one resource group, which if need can be deleted with rest of your work.