COHESITY

Version 1.1

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Integrate Microsoft Sentinel with Cohesity Data Cloud

ABSTRACT

The Cohesity Data cloud provides cyber resilience with modern data management and protection capabilities. Integrating it with a Cloud-Native SIEM/SOAR solution further enhances an organization's security operations by providing comprehensive visibility and automated incident response with improved threat detection, resulting in a more robust and efficient security posture.

This guide explains how you can integrate the Cloud-native Microsoft Sentinel platform with Cohesity Data Cloud to enhance the security visibility, investigation, and rapid response of Cohesity incidents to protect the customer-critical data with the Cohesity playbooks and automation capabilities.

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Introduction

Ransomware attacks have increased exponentially, causing billions in losses, and putting lives at risk while damaging trust and reputations. As cybercriminals get more inventive, they're not only locking up production systems but also destroying backups and stealing sensitive data. This leaves your enterprise with no option but to pay a ransom.

Defense in depth is the key to minimizing risk. It's crucial to have a backup system that reliably and securely makes continuous or frequent backups, protects them from attack, and can immediately and safely put the data online at scale to support forensics and cyber recovery. Cohesity provides unique capabilities in those areas. Security is a team sport; Cohesity incorporates the leading security ecosystem technologies to help identify vulnerabilities in backed up VMs that would let attackers in if recovered, help mask sensitive data, and help detect the presence of attackers before they plant ransomware. Cohesity also applies leading ML-driven classification technology that leverages Natural Language Processing (NLP) methods to automatically discover and classify large sets of data at scale to help minimize risk and improve security posture.

Cohesity gathers rich telemetry collected during backup and applies multiple machine-learning models and algorithms to identify anomalies in the backup data can be your first warning of trouble if your other tools have failed to detect and block the attackers. (For more information, refer to Accelerate Anomaly Detection with Cohesity whitepaper. Cohesity enhances your organization's ability to react quickly in a coordinated manner by integrating with Microsoft Sentinel.

This solution tears down the silos between your IT and security operations teams to provide faster time for discovery, investigation, and recovery from ransomware attacks.

The coupling of the Cohesity security and data management platform with Microsoft Sentinel detects and aggregates anomaly events before orchestrating threat response, delivering intelligent backup data security analytics to your enterprise. The integrated solution brings data-driven insights from your ITOps and SecOps organizations together, boosting the teamwork required to assess an attack's scope most effectively and quickly remediate the threat.

Managing the Alerts without SOC Integration

The Cohesity platform provides cyber resilience with modern data management and protection capabilities which generates anomaly alerts based on suspicious activity on the Anti Ransomware dashboard. Without leading SOC integration support, organizations may have a few limitations while addressing the alerts:

- **Limited security visibility** – The Cohesity platform primarily focuses on data management and protection, which may result in limited visibility into security events and threats across the organization's IT infrastructure.
- **Incident response** – Security teams may need to investigate and respond to anomaly alerts and incidents, which can be time-consuming, error-prone, and lead to delays in incident resolution.
- **Lack of automation and orchestration** – Integrating a SOAR solution with Cohesity enables organizations to automate and orchestrate security processes and workflows.
- **Compliance and reporting challenges** – Organizations have mandatory regulatory compliance to adhere to gather all infrastructure logs in one centralized location.

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Cohesity Security Integration for Microsoft Sentinel

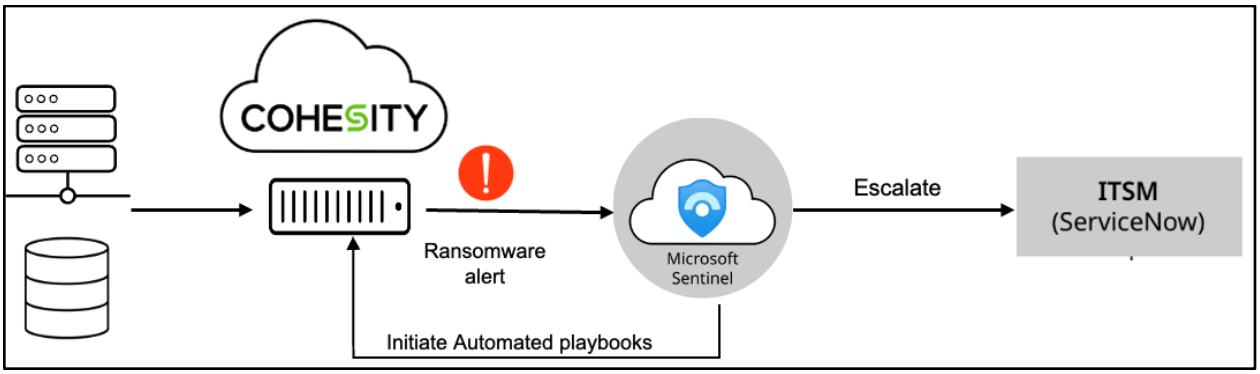
Microsoft Sentinel delivers intelligent security analytics and threat intelligence across the enterprise. By using the Cohesity Data Cloud integration with Microsoft Sentinel, you get a single solution for attack detection, threat visibility, proactive hunting, and threat response.

You can use this Cohesity Integration for Microsoft Sentinel Solution available on Cohesity Marketplace to configure automatically sending Cohesity Anomaly alerts directly to Microsoft Sentinel.

From Microsoft Sentinel, security analysts can investigate the incidents as ransomware detection events on the Microsoft Sentinel console, and if needed, initiate a snapshot recovery directly from Microsoft Sentinel or via ServiceNow, escalate the incident, or dismiss the alert.

The integration of Microsoft Sentinel with Cohesity helps accelerate how enterprises discover, investigate, and recover from ransomware attacks while improving IT-SecOps collaboration.

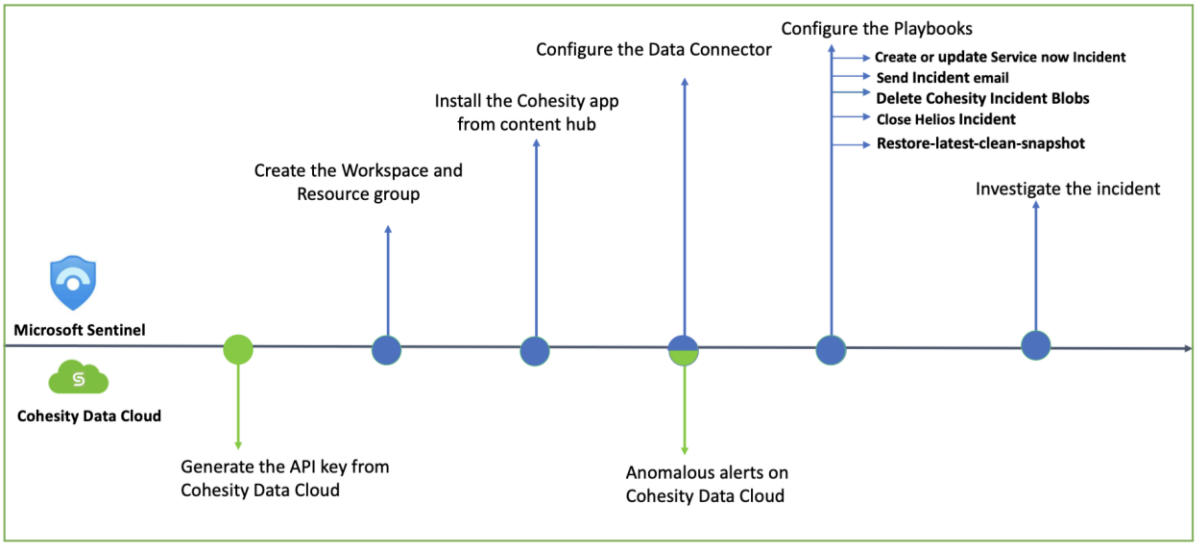
Figure 1: Closed-loop ransomware detection and remediation with integrated Cohesity and Microsoft Sentinel



Integrate Ransomware Alerts from Cohesity Data Cloud to Microsoft Sentinel

You can integrate Cohesity Data Cloud with Microsoft Sentinel to stay updated with the security alerts from your Cohesity environment and immediately respond to a ransomware attack or an incident. To integrate with Microsoft Sentinel, perform the following steps:

Figure 2: Configuration Workflow



Set Up Cohesity Data Cloud API Keys

You can use APIs to access Cohesity Data Cloud and perform your tasks on Cohesity Data Cloud and your local cluster. You must create a role with minimum permissions in Cohesity Helios.

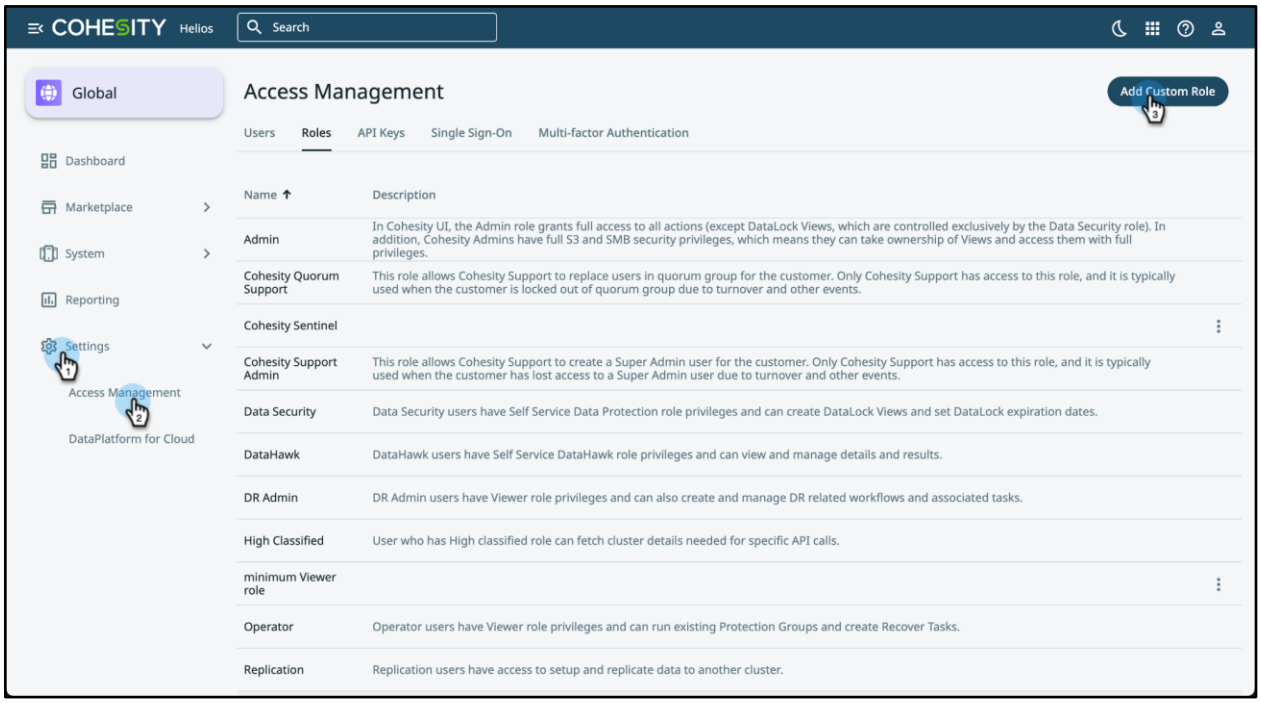
Create a Custom Role with Minimum Permissions

Cohesity Data Cloud allows you to create a role and choose its permissions. However, Cohesity recommends that you create a role with the minimum required permissions for data connection purposes.

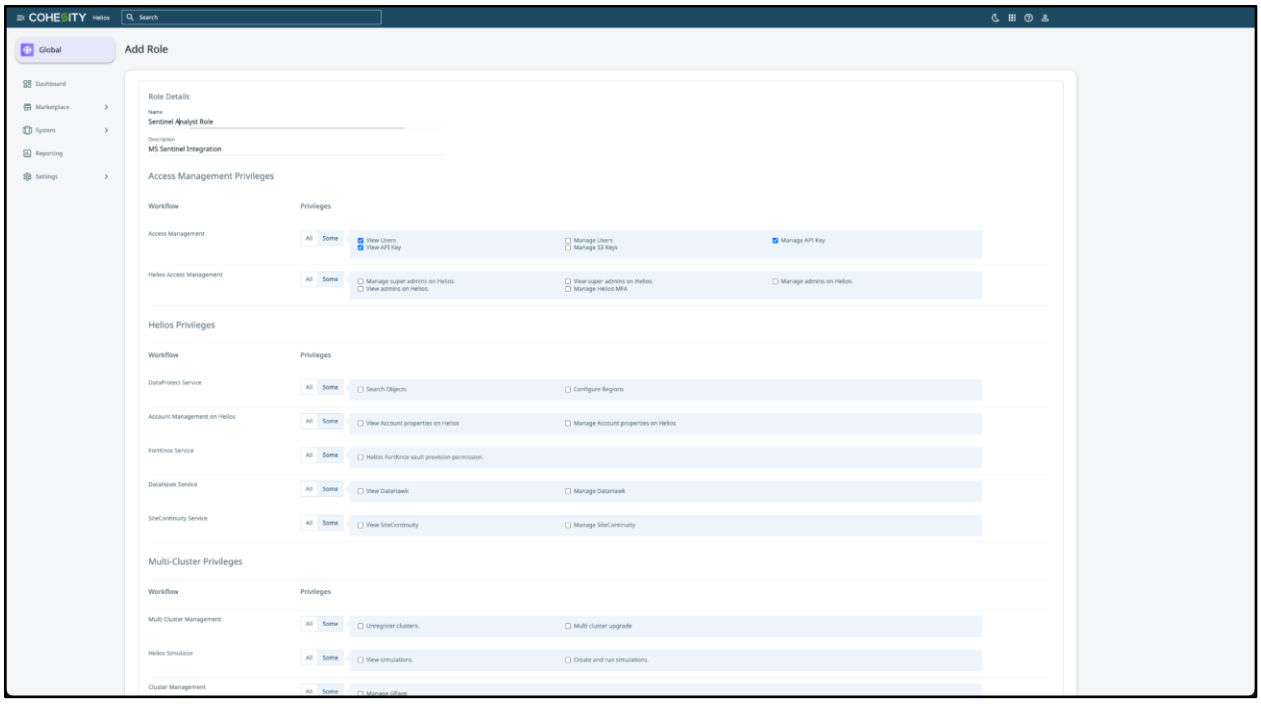
To create a role:

1. Log in to Cohesity Helios.
2. From the Global **Dashboard**, navigate to **Settings** > **Access Management**.

3. Select the **Roles** tab and click **Add Custom Role**.



4. In the **Add Role** page with role permissions options, enter the **Role Name** and a **Description** for the role.
5. To create a role with minimum permissions, select the following permissions:
   - View Users
   - View API Keys
   - View Alert Details
   - Allows access to Cohesity UI
   - View Protection Groups
   - View Protection Policies
   - Manage Recover Tasks
   - Reporting
   - Enable or disable snapshot tagging feature
   - Restore from tagged snapshots



6. Click **Save**. A new role is created successfully.
7. Once the new role is created, you have to assign the created role to a user.
8. You have to log back into Cohesity Data Cloud as this user and then create an API key to authenticate an application.

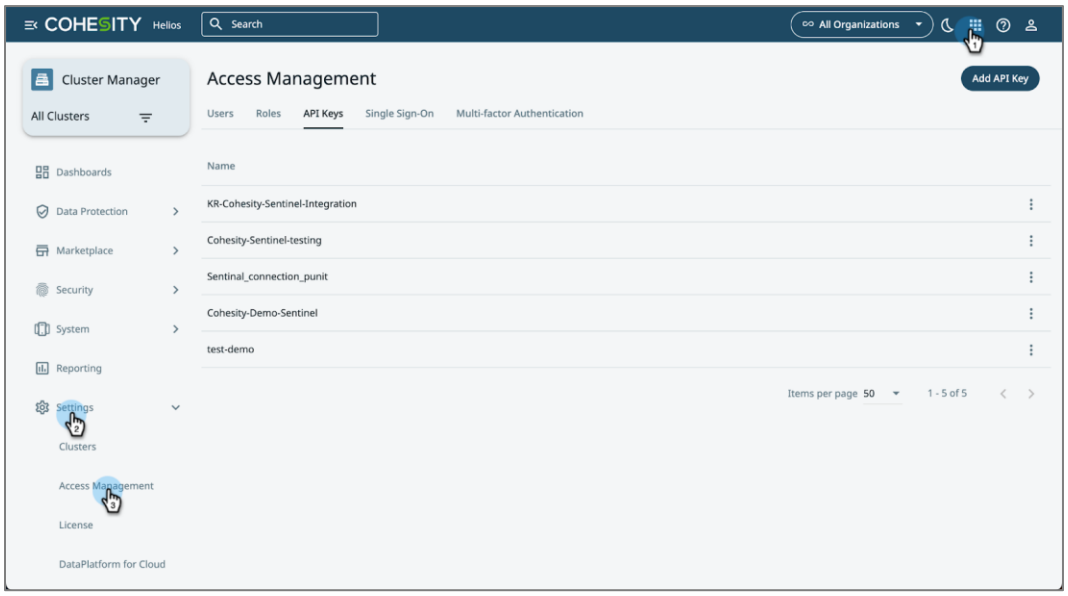
NOTE: This API key has the minimum permissions because the user role who created this API key has minimum assigned permissions.

Create and Copy the API Keys

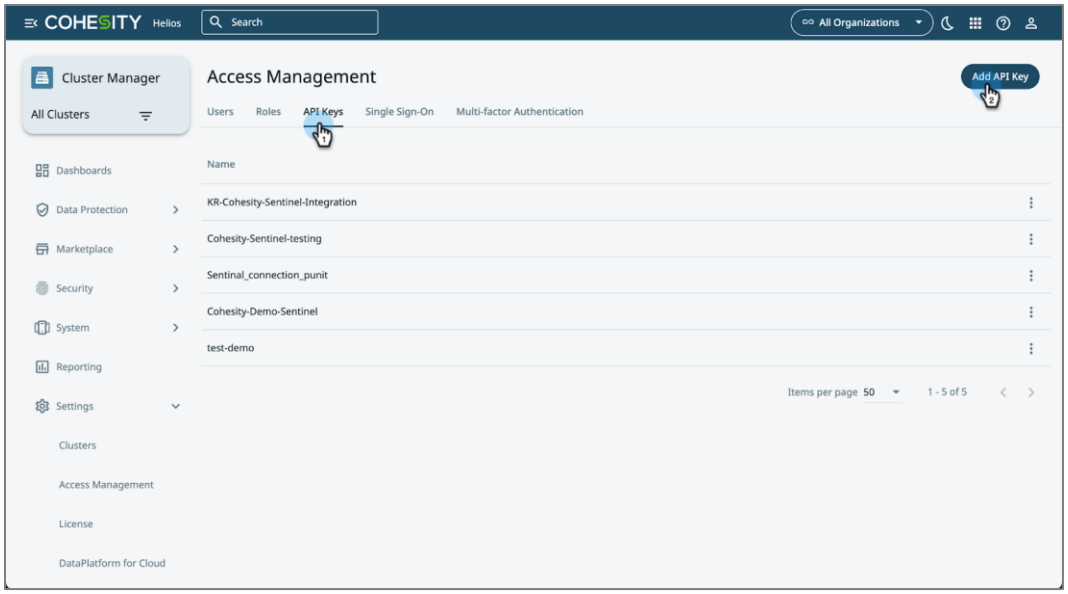
To create and copy the API keys:

1. Log in to Cohesity Helios.

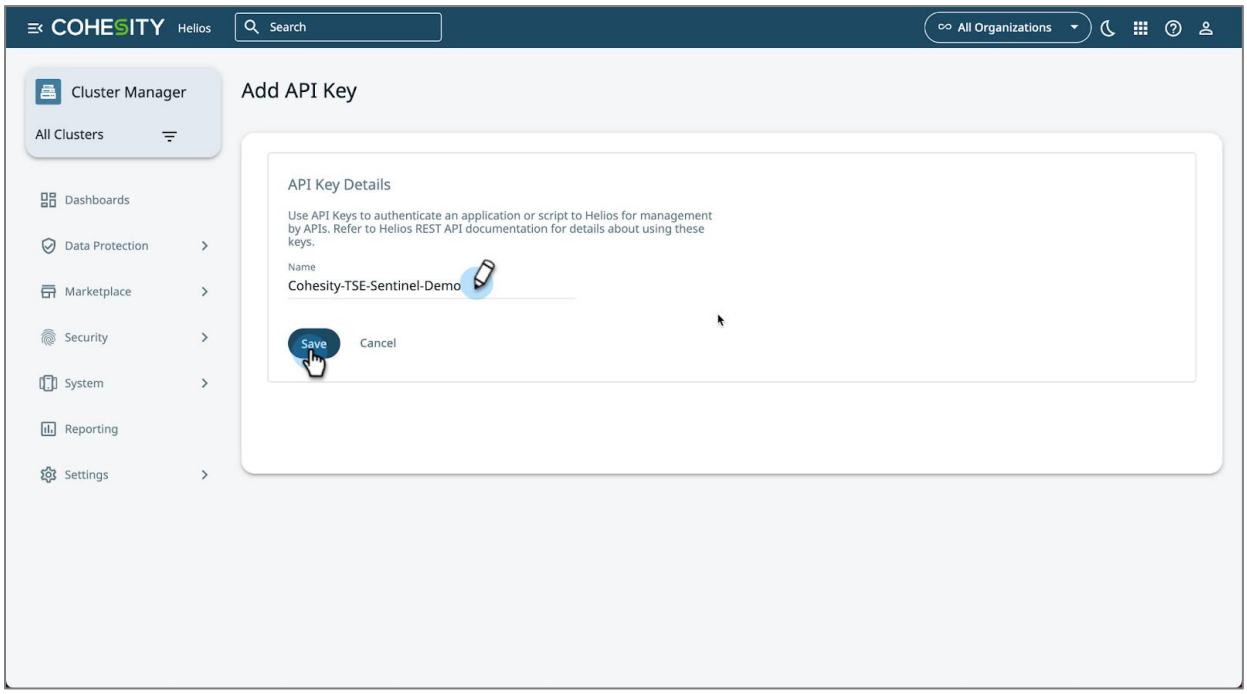
2. From the **Global Dashboard**, navigate to **Settings** > **Access Management**.



3. From **Access Management,** select **API Keys** >**Add API Key**.

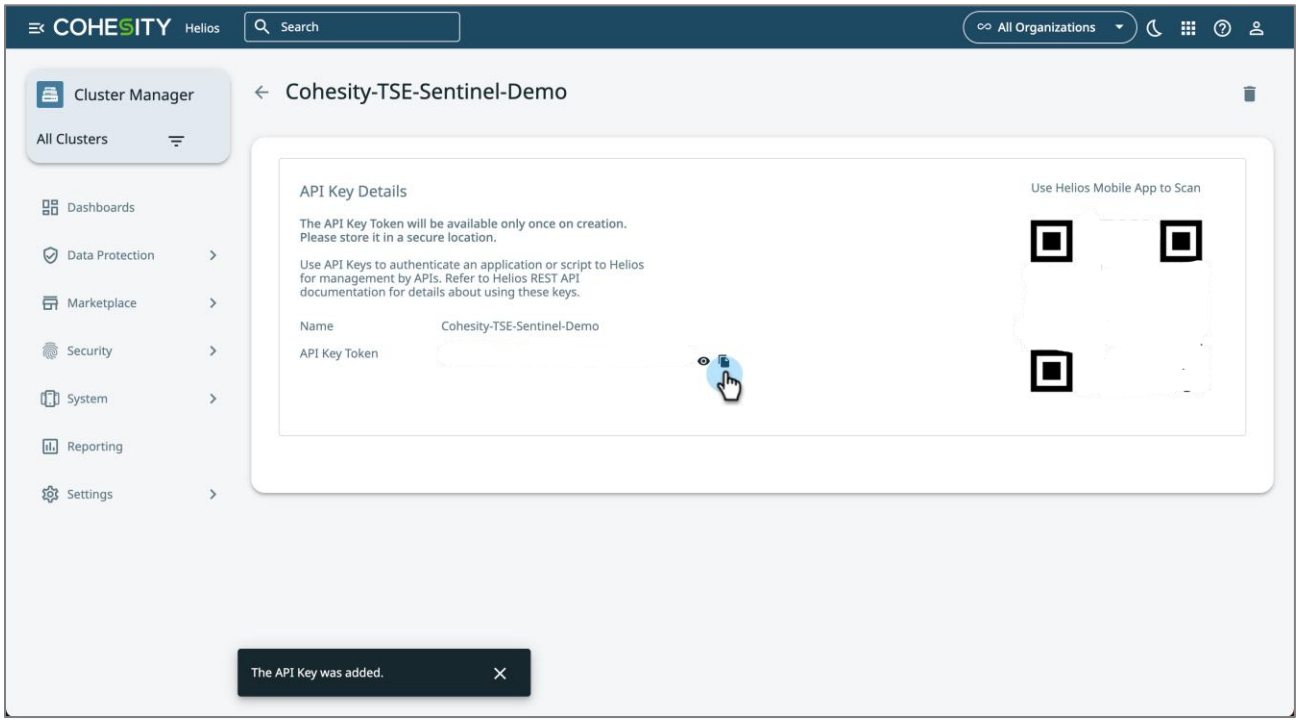


4. Enter a name for the API key and click **Save**.



5. The **API Key Token** is displayed.

NOTE: Ensure to copy and save the API Key token to later add it to the Data Connector page in Microsoft Sentinel.



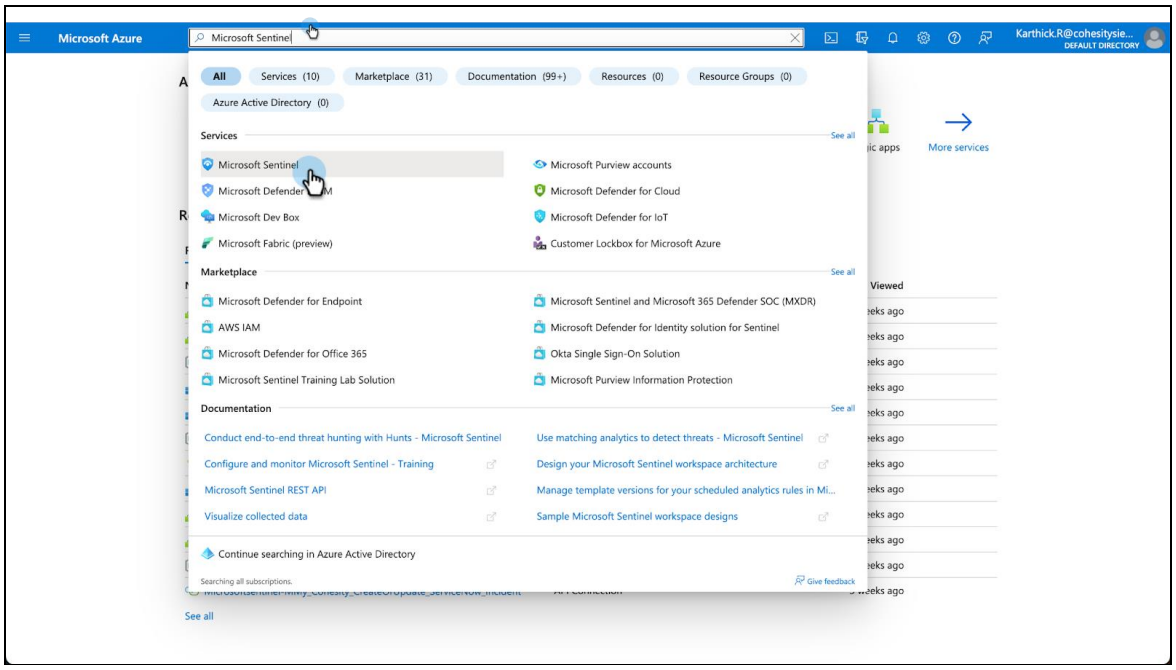
Configure Workspace and Resource Group

Microsoft uses a **Workspace and Resource group** to gather and store all logs-related information. A workspace is a unique environment for the log data from Microsoft Sentinel providing a centralized place to view and manage the artifacts and store events and other information. A workspace has a unique workspace ID and resource ID.

A Resource group includes all the resources for your Microsoft Sentinel solution and consists of multiple workspaces.

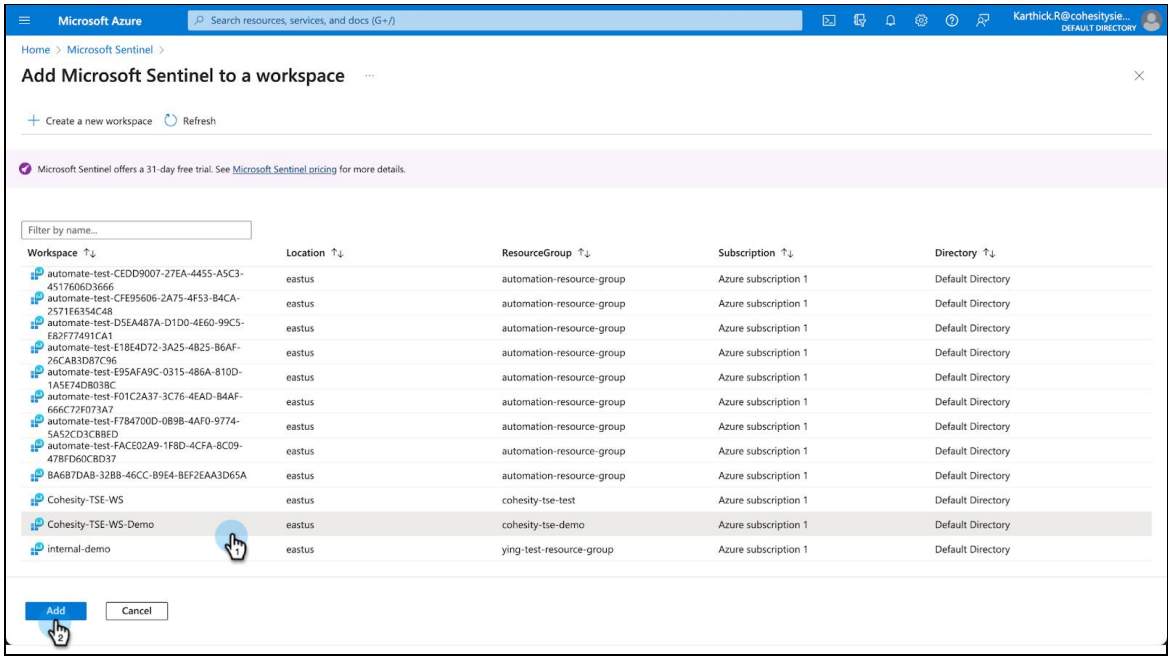
To create the Workspace and Resource group:

1. Sign in to the Azure portal.
2. Search for and select **Microsoft Sentinel**.



3. Select the **Workspace and Resource group** you want to use or create a new one. Refer to create the workspace and resource group.

4. Add new **Workspace** to Microsoft Sentinel.



5. Your new workspace “Cohesity-TSE-WS-Demo” will be listed under MS Sentinel instance.

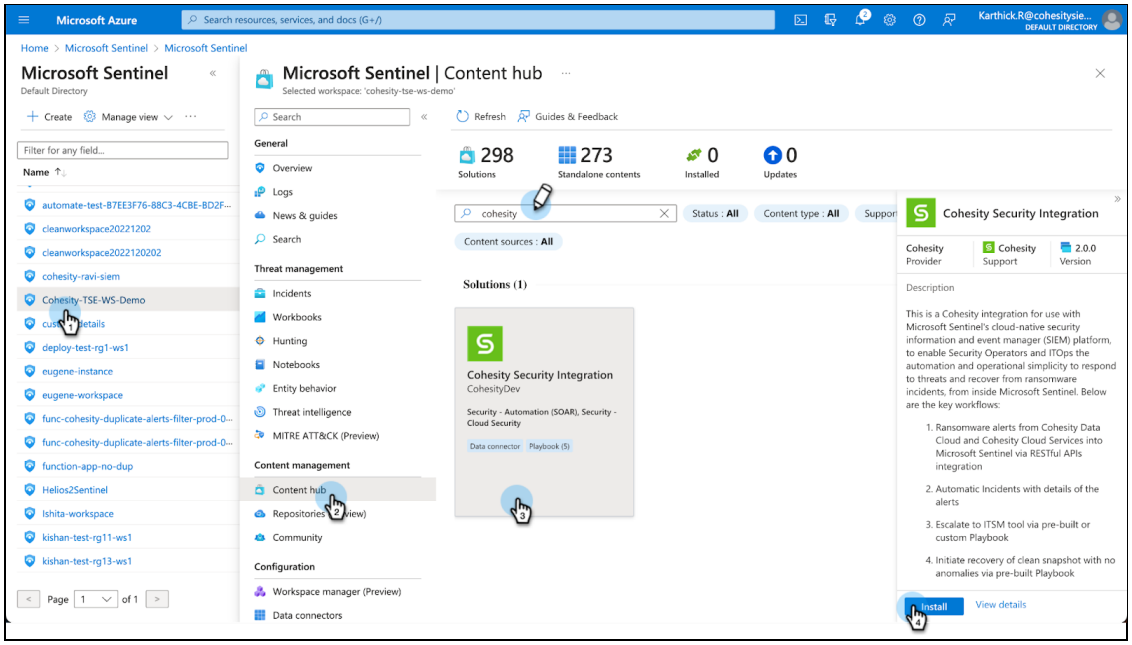
Install Cohesity Security Integration Solution

Microsoft Sentinel is a Cloud-native SIEM Solution that can be configured to integrate Cohesity Data Cloud with the built-in **Cohesity Security Integration** solution available on Cohesity Marketplace. It contains a set of bundled content including a data connector and playbook templates configured specifically for Cohesity data.

To install the Cohesity Security Integration Solution:

1. From the Sentinel dashboard, select the created **Workspace**.
2. Under **Content management**, select **Content Hub** and then search for **Cohesity**.

3. In the search results, select the **“Cohesity Security Integration”** solution, and on the right pane, click **Install.**



4. You’ve now installed the required **Cohesity-developed playbook templates** configured specifically for Cohesity data in your Microsoft Sentinel environment.

Configure Cohesity Data Connectors

The next step is to configure **Cohesity Data Connectors** to start ingesting your data into Microsoft Sentinel. Cohesity Data Connector is a **Function App** that establishes the secure connection between Cohesity Helios and Microsoft Sentinel.

Before you configure data connectors, register the Azure application and grant permissions to fetch incidents on Microsoft Sentinel.

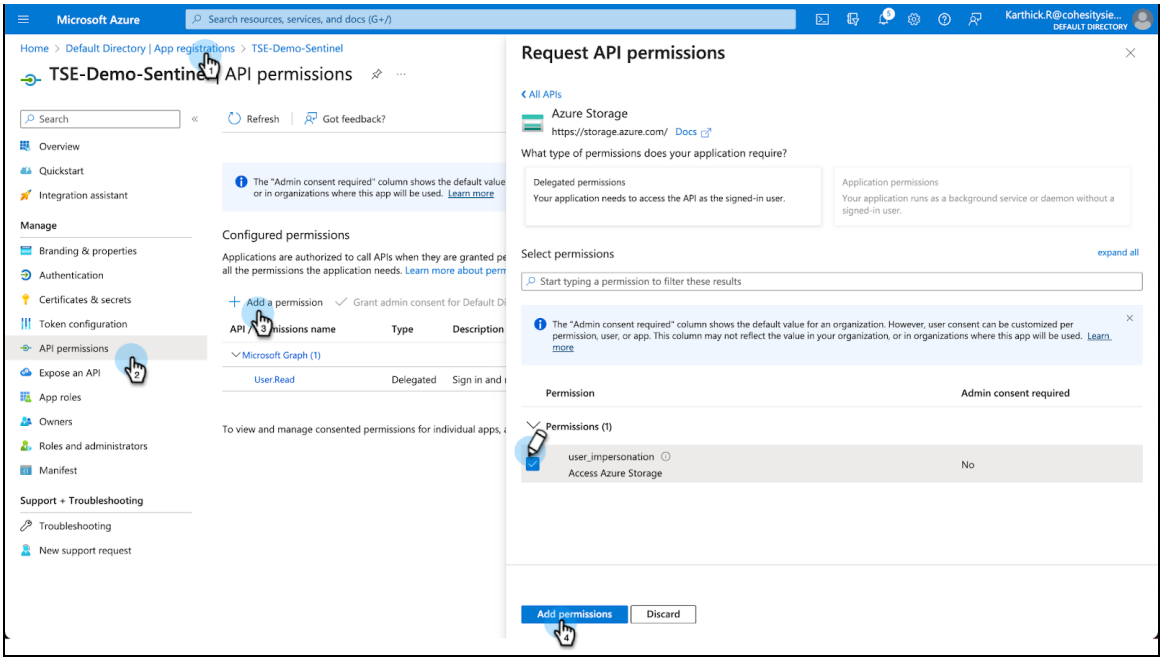
Register Azure Application for Cohesity

To create incidents in Microsoft Sentinel and store Cohesity alert-related data on Azure Storage, the Azure function applications need an Azure application identity. You can refer to Register a Client Application in Azure Active Directory to learn how to register an application, check the application ID, and create a New Client Secret.

Once you’ve registered the application, you should save the following information.

- Application (client) ID
- Directory (tenant) ID
- Secret Value

NOTE: You must grant Azure Storage (user_impersonation) permission to the Azure application.

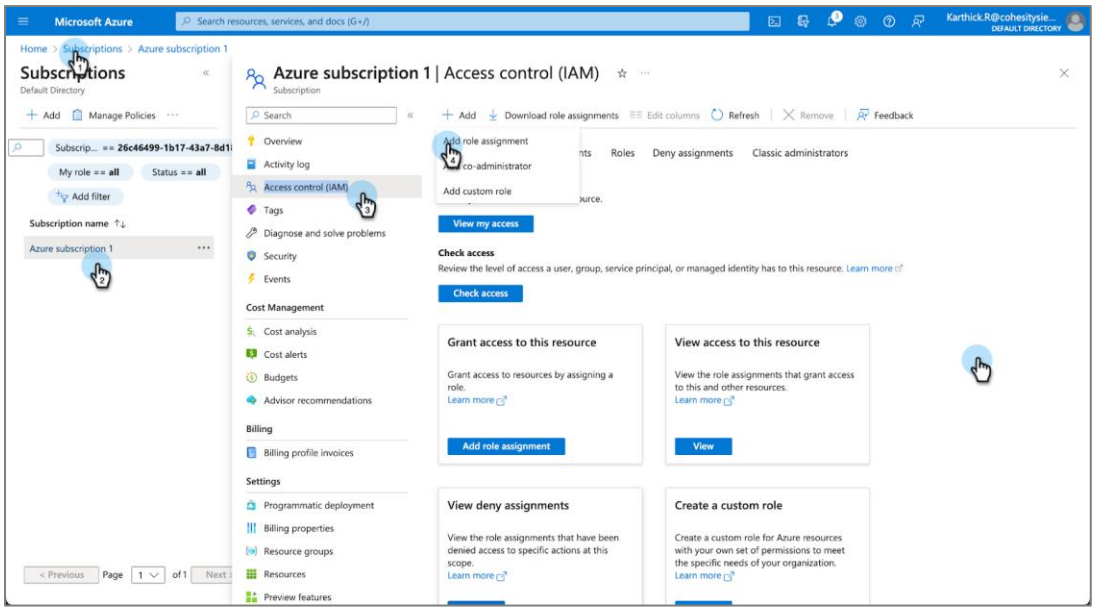


Set Required Permissions to Create Microsoft Sentinel Incidents

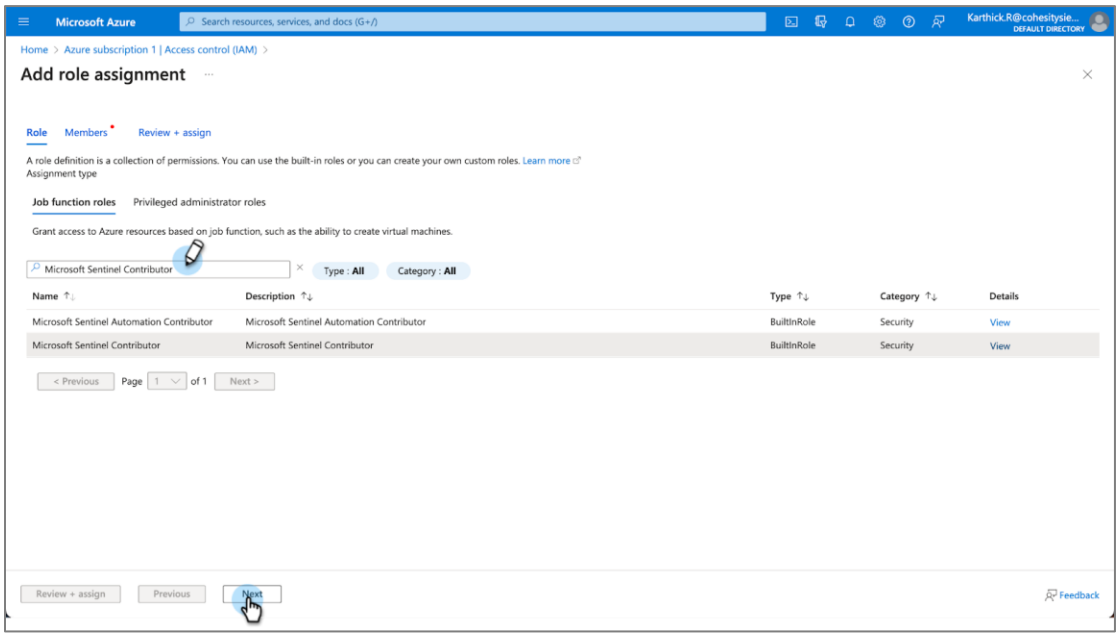
After Registering the Azure Application for Cohesity, assign the role of **Microsoft Sentinel Contributo**r to allow Cohesity function apps to create incidents on Microsoft Sentinel. To assign the role:

1. Under the **Subscriptions** tab from the **Home** page, choose your subscription name.
2. On the left pane, choose **Access Control (IAM)**.

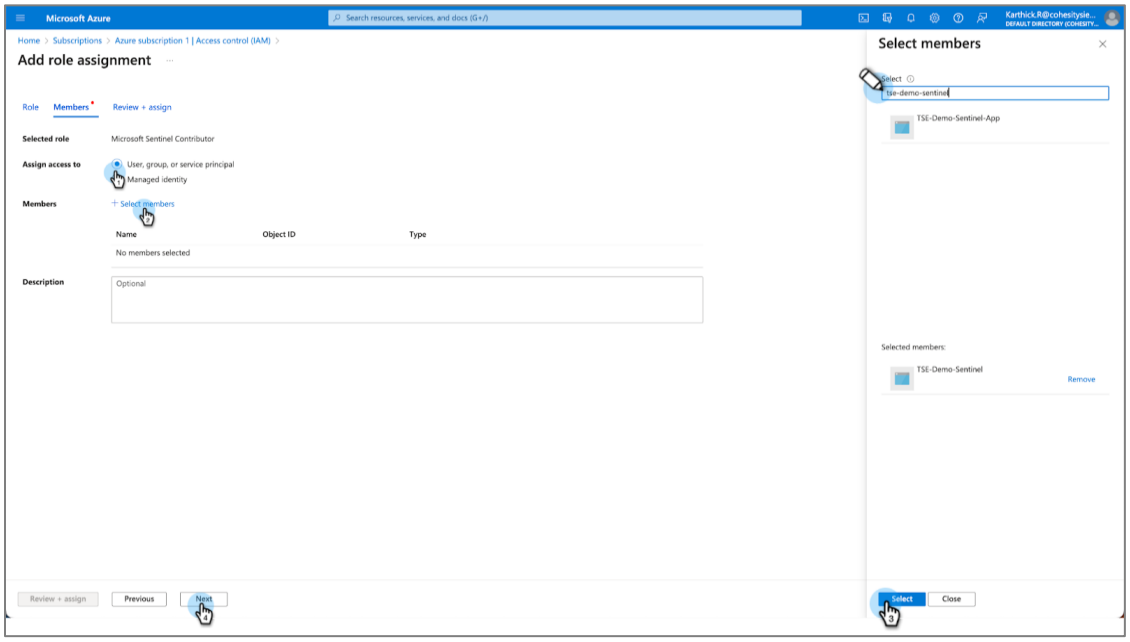
3. Select **Add** > **Add Role Assignment.**



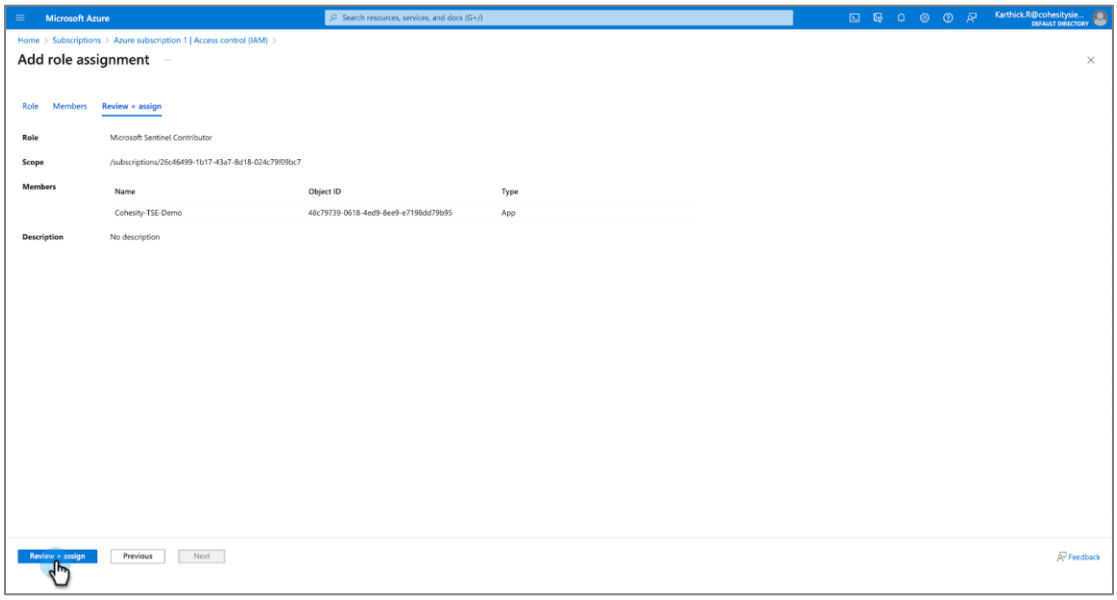
4. Search for the **Microsoft Sentinel Contributor** role and click **Next**.



5. Select Assign Access to as **users, group, or service principal,** and select the created App from the **Select members** right pane.



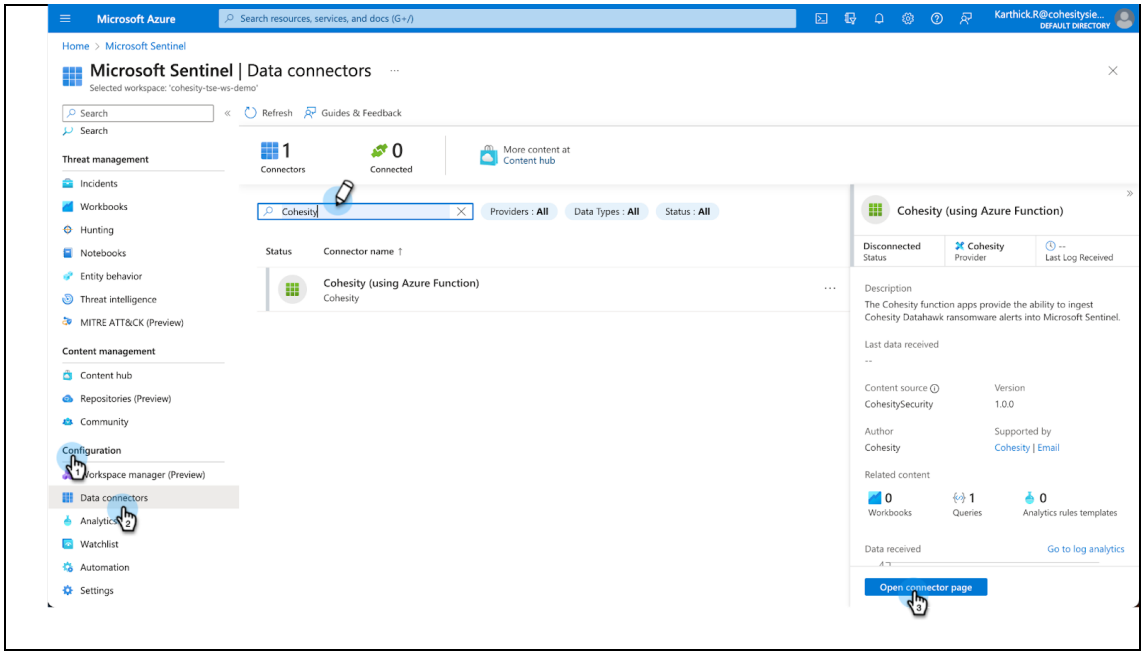
6. Select **Review + assign.** This will assign the **Microsoft Sentinel Contributor** permissions to the registered created app for Cohesity.



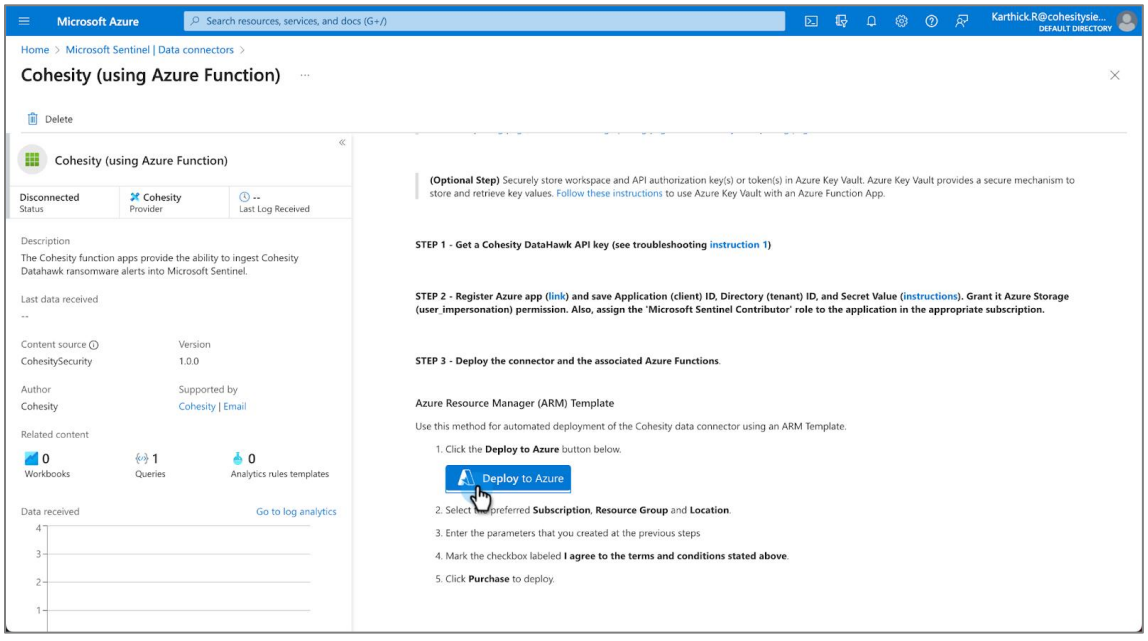
Deploy Cohesity Data Connector

Once you've registered the application (identity), follow the below steps to configure the Cohesity Data connector, which will establish the secure connection between Microsoft Sentinel and Cohesity Data Cloud to fetch the ransomware alerts from Cohesity Data Cloud to **Incidents tab** under Microsoft Sentinel

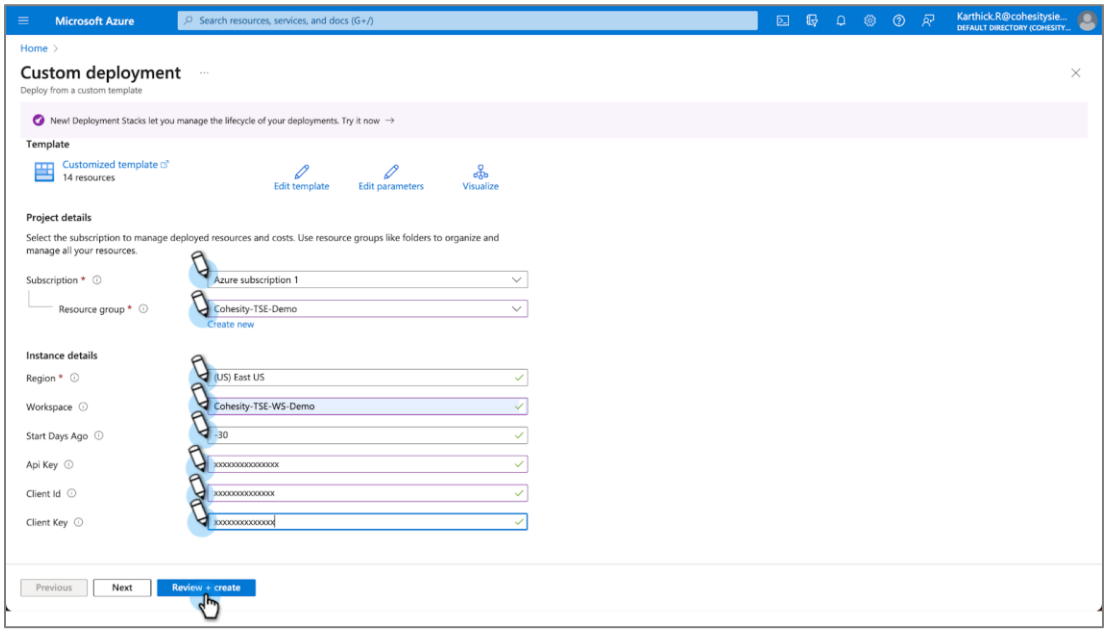
1. From the selected workspace, select **Configuration** > **Data Connectors.**
2. Search for Cohesity and select the data connector “**Cohesity (using Azure function)”.**
   A right pane with connector details is displayed.
3. Select **Open Connector Page**. The **Instructions** tab is displayed.



4. Click **Deploy to Azure**.

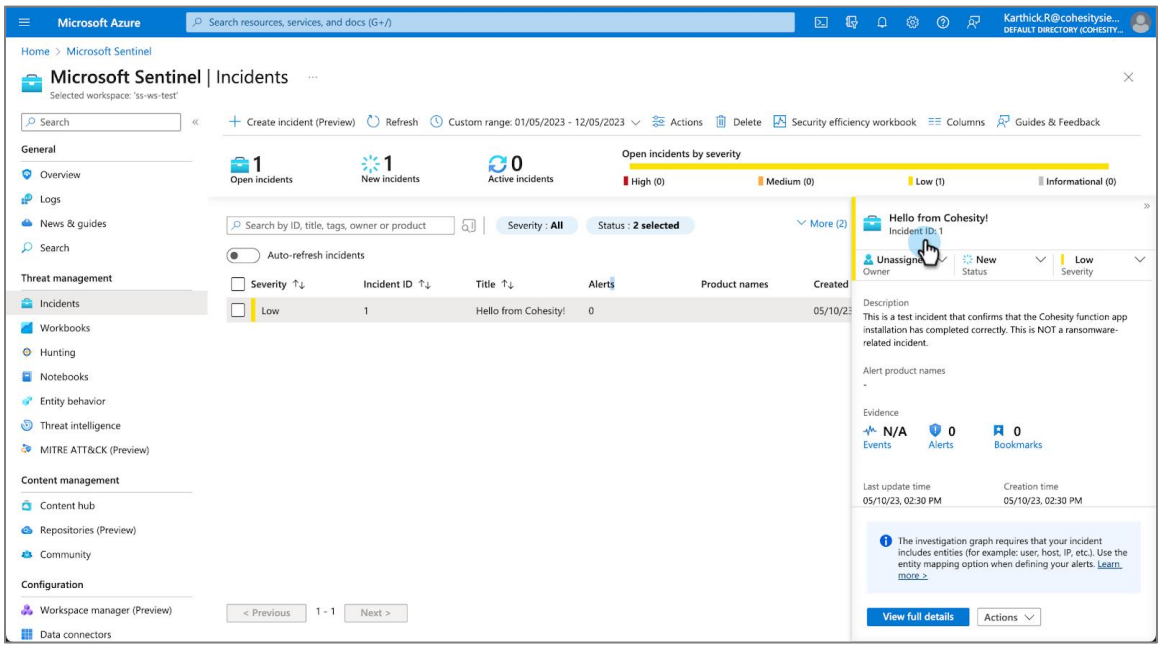


5. Add the below field names and click **Review + Create**.
   a. **Subscription** - <Select the subscription name>
   b. **Resource Group** - <Select the resource group associated with workspace>
   c. **Region** - <Choose the Azure region>
   d. **Workspace** - <Enter the “name” of the workspace>
   e. **Start Day Ago** - <No. of days of historical data about security incidents>
   f. **API key** - <Enter your API key token from Cohesity data cloud>
   g. **Client Id** - <Enter your Client ID generated while registering the Azure function app>
   h. **Client Key** - <Enter your client Secret key generated while registering the Azure function app>



6. You've installed the **Cohesity Data Connecto**r successfully. After installation, you should see a welcome incident with the title **Hello from Cohesity!**

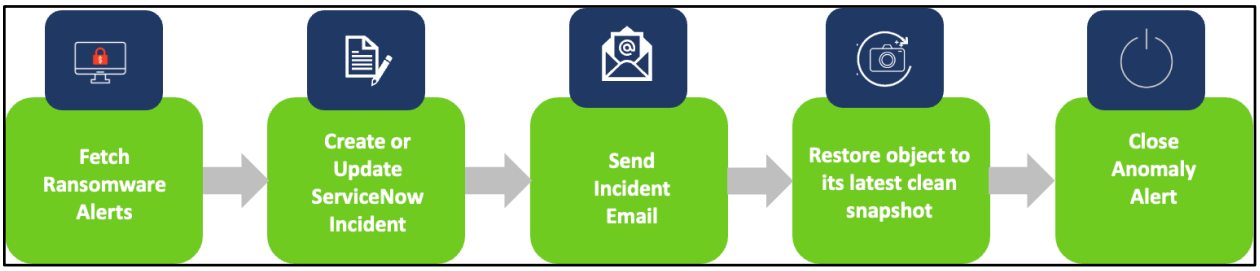
NOTE: The welcome incident may take a few minutes to appear after installation and all the existing anomaly alerts will also start appearing on the incident tab.



Configure the Cohesity Playbooks

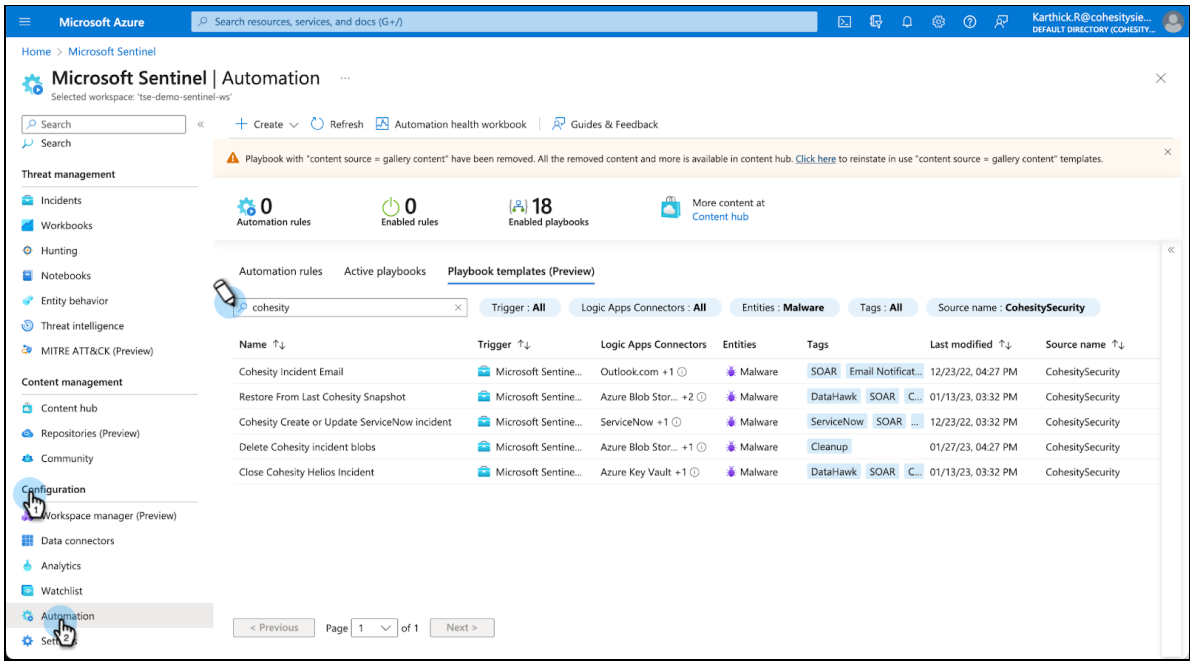
Once you have installed the Cohesity solution, the Cohesity playbook templates are available in Microsoft Sentinel to unite security and IT teams for collaborative investigation and remediation. To check the playbook templates, go to **Automation** -> **Playbook templates** and search for Cohesity. Cohesity solution provides the following playbooks:

Figure 3: Cohesity Playbooks use cases



- **Cohesity Send Incident Email –** ends an email to the recipient with the details related to the incidents.
- **Cohesity CreateOrUpdate ServiceNow Incident –** Creates and updates the incident in the ServiceNow platform.

- **Cohesity Restore From Last Snapshot** – Allows you to restore your data from a clean snapshot.
- **Cohesity Close Helios Incident** – Allows you to resolve alerts on Cohesity Data Cloud.
- **Cohesity Delete Incident_Blobs** – Deletes the blobs on Azure storage created by an incident that is generated by the Cohesity function apps.



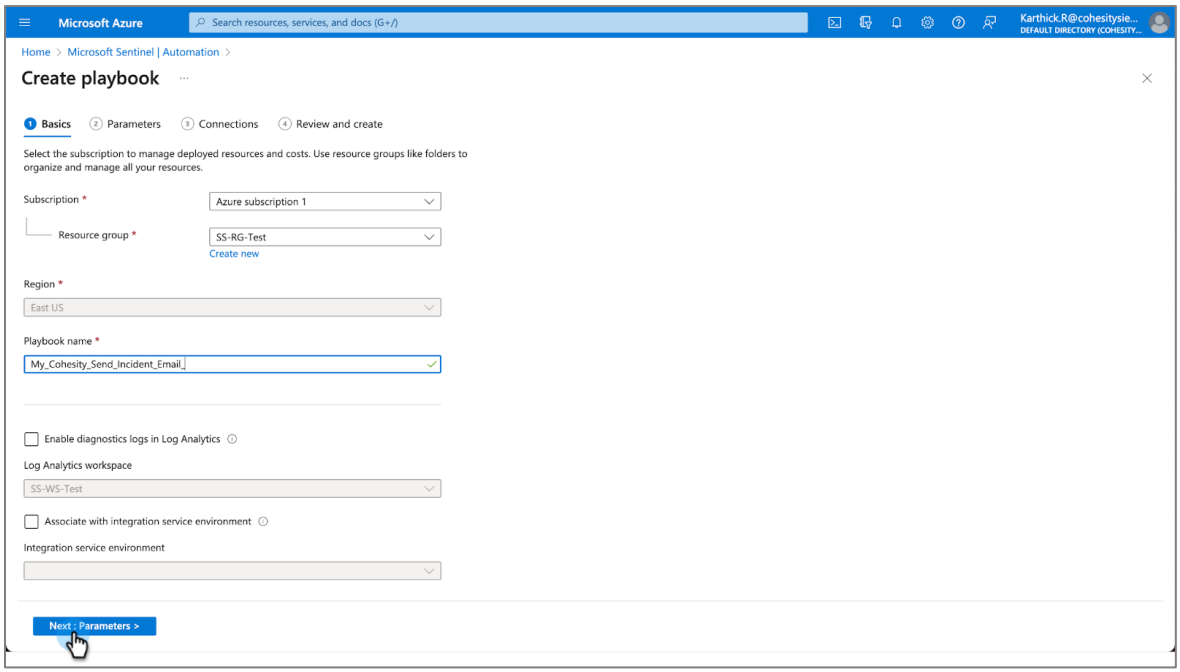
Now, Let's see how we can configure the different Cohesity-developed playbooks on the Microsoft Sentinel platform.

Cohesity Incident Email Playbook

This playbook sends an email to the recipient with the incident details. After you assign the permissions to playbook, you need to perform the below configuration steps to enable this playbook:

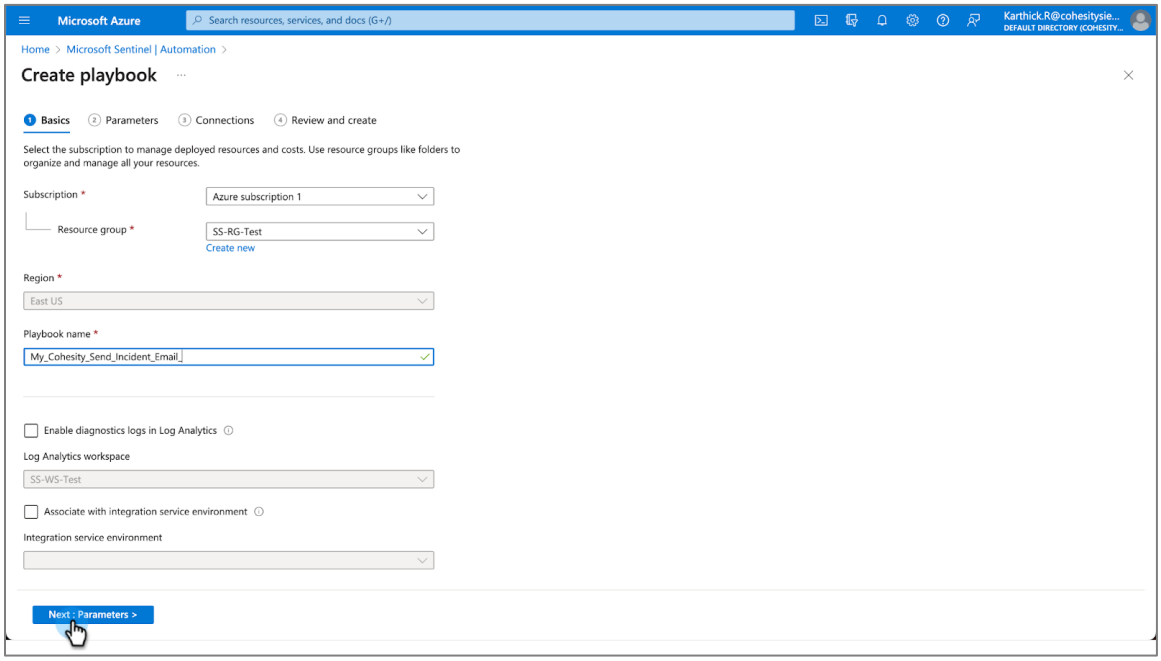
1. From the Workspace, under the Configuration pane, navigate to **Automation** tab, and select **Cohesity Incident Email Playbook.**

2. Click **Create playbook.**

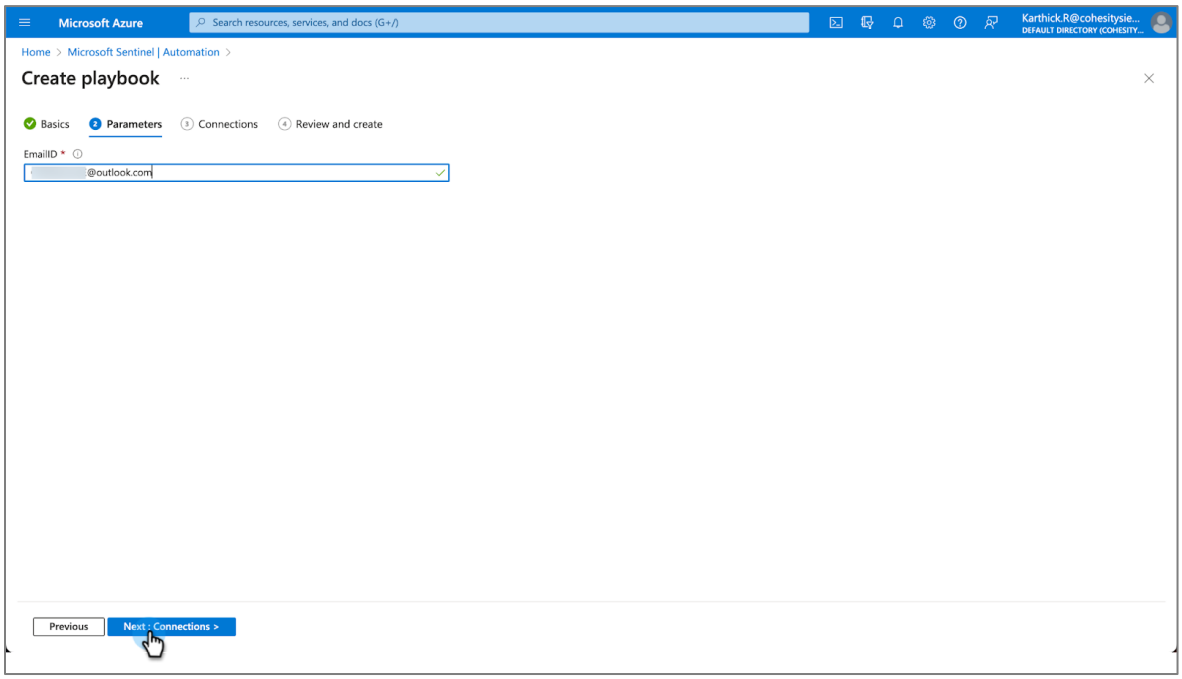


3. Enter the **field details** and click **Next**: **Parameters**

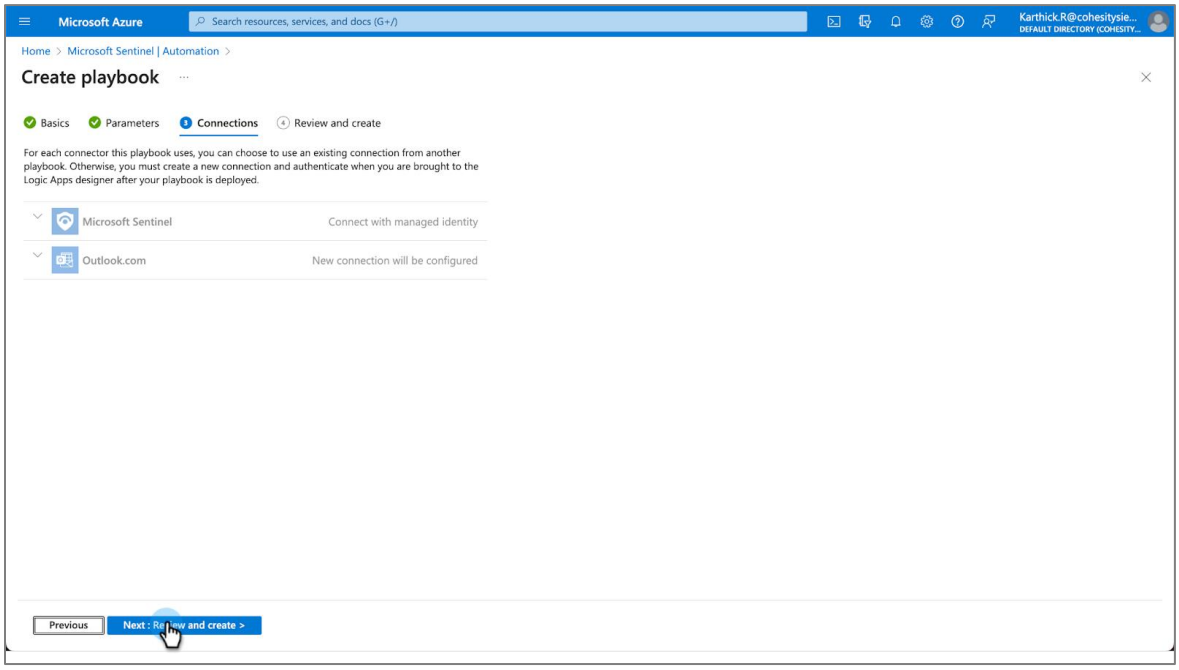
- **Subscription**
- **Resource group**
- **Playbook Name**



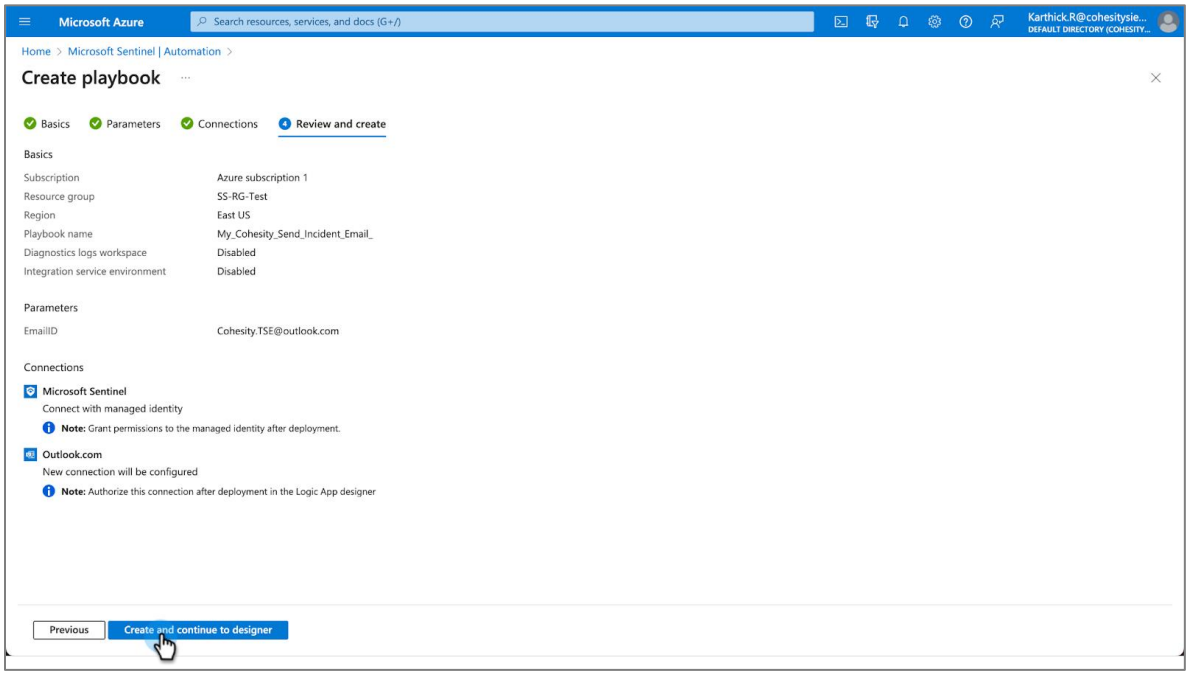
4. Enter the **recipient's email address** and click **Next: Connections**.



5. Click **Next: Review and create.** This will review and validate the parameter details.



6. Click **Create and continue to designer**. This will redirect to the Logic apps window to authorize the API connections.



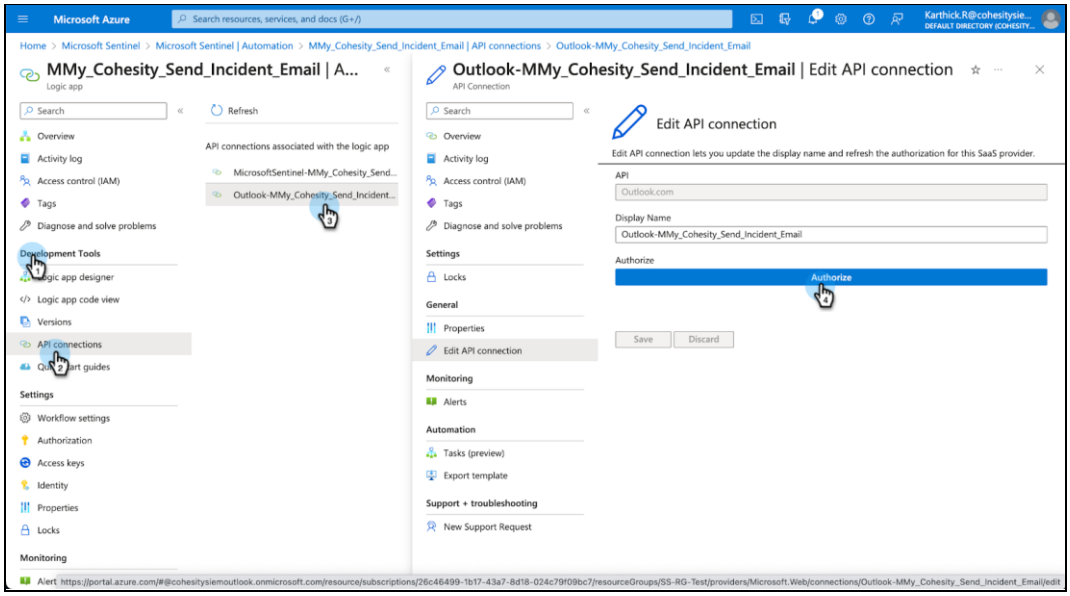
Authorize Microsoft Sentinel to Access Outlook

After creating the playbook, you should authorize a connection from the Logic Apps to access Outlook.

To authorize the connections:

1. In Microsoft Sentinel, go to **Logic Apps**, and choose your playbook.
2. Choose **Development Tools** > **API Connections**.
3. Select an Outlook **connection** to authorize.

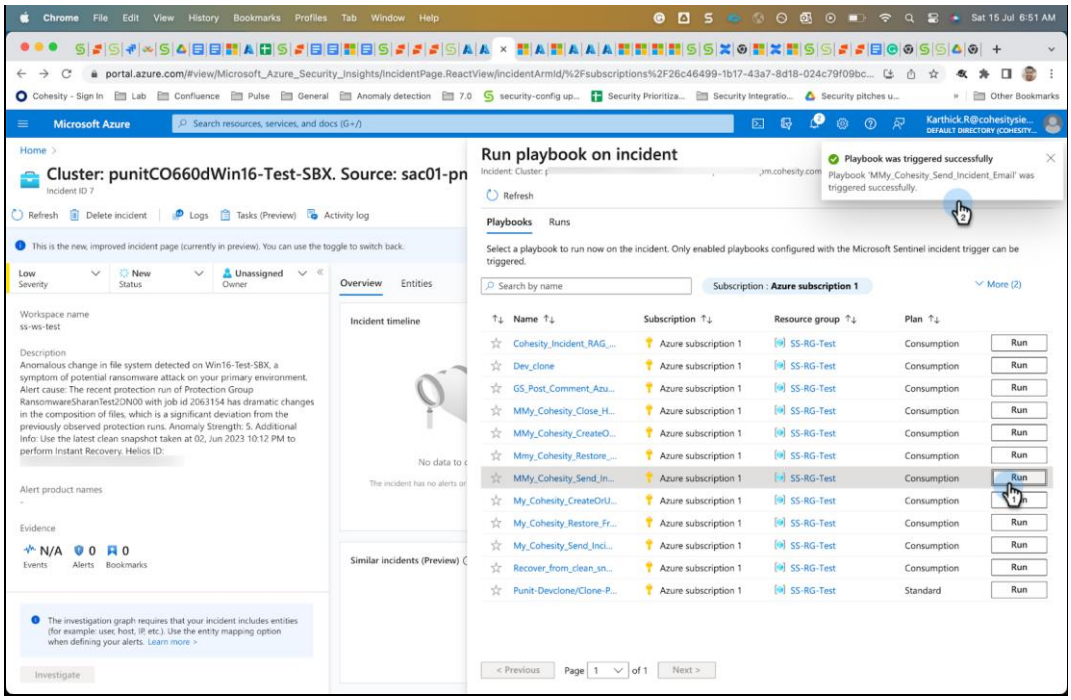
4. Select **General** > **Edit API Connection**.



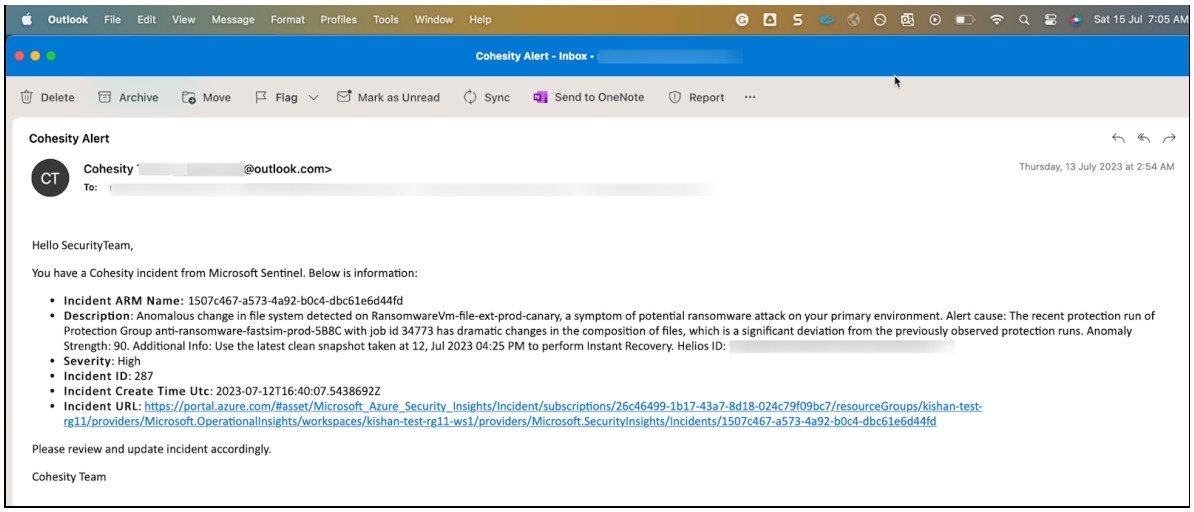
5. Select **Authorize** and you will be redirected to an email account configured to authorize the connections.

6. After authorizing the connection to Outlook, Go to the **Incidents tab** under the selected workspace, and select **Run** to trigger the playbook.

NOTE: Make sure the user that runs the playbook has the role **Microsoft Sentinel Playbook Operator** assigned. To assign the role, refer set required permissions to access playbook.



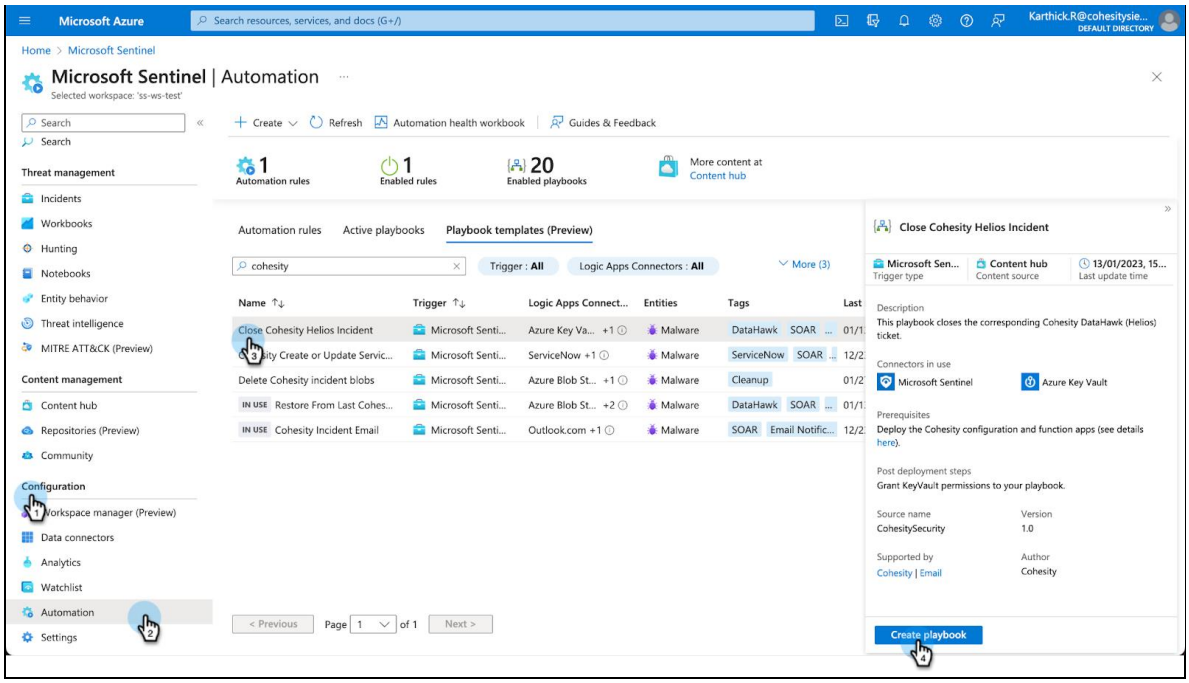
7. You will get an auto-notification email with **Incident details** from the configured email ID.



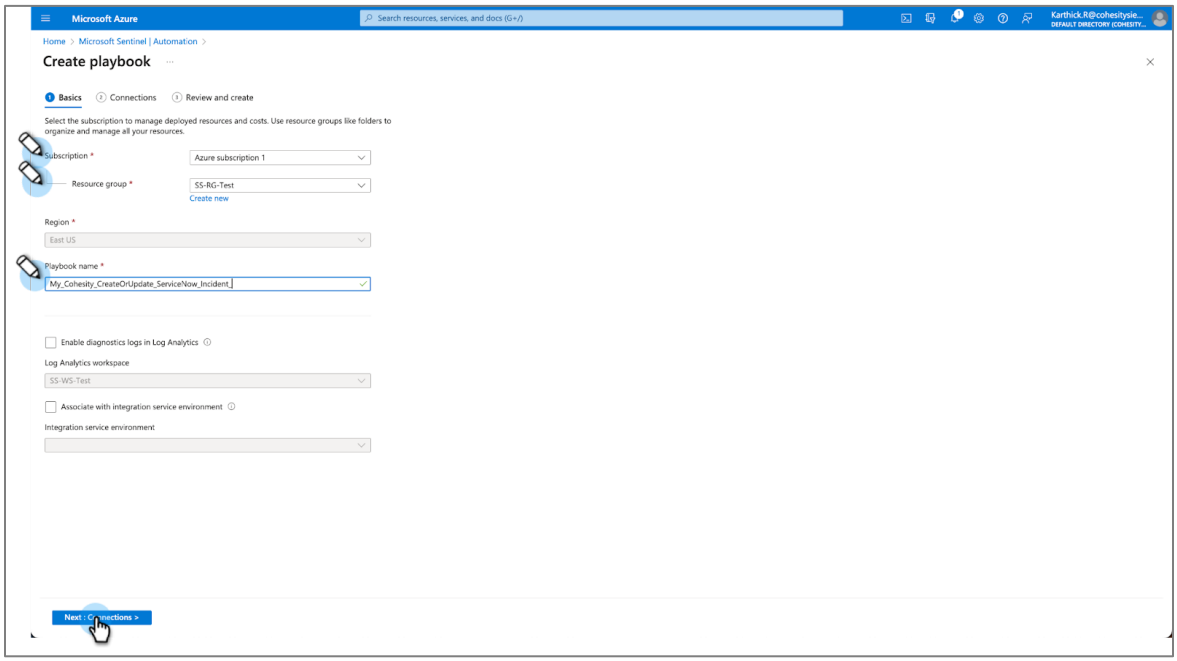
Cohesity Close Helios Incident

This playbook allows you to resolve alerts on Cohesity Data Cloud. Once you assign the permissions to playbook, you have to perform the below configuration steps to enable this playbook:

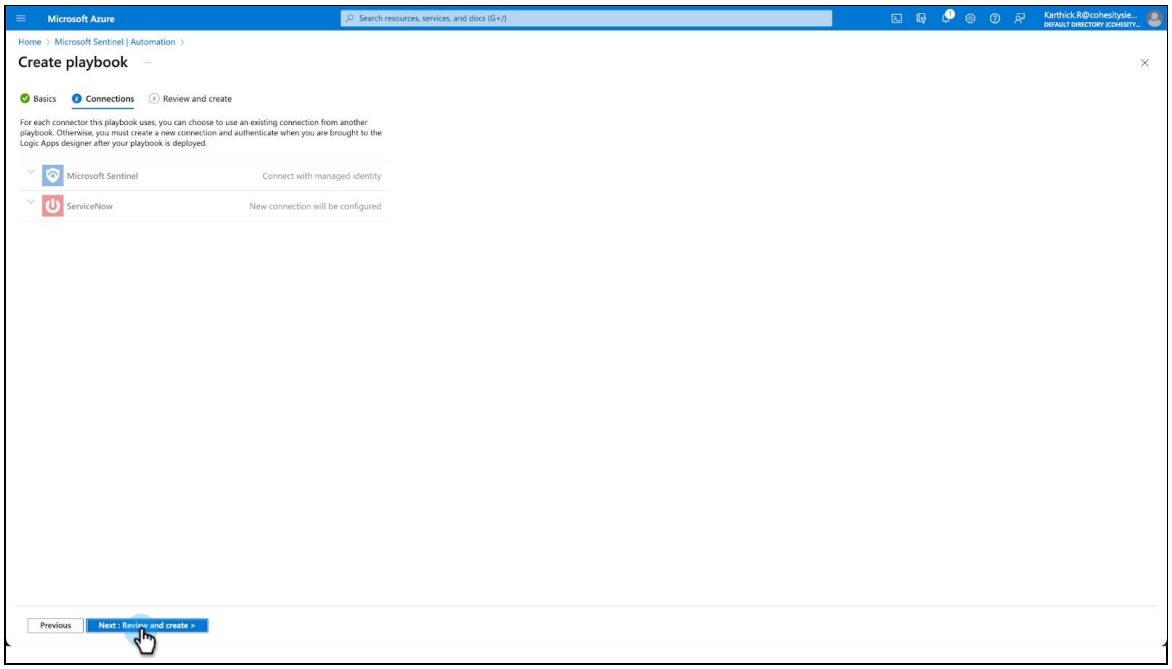
1. From the workspace, under the **Configuration** pane, navigate to the **Automation** tab, and select the **Cohesity Close Helios Incident Playbook**.
2. Click **Create playbook.**



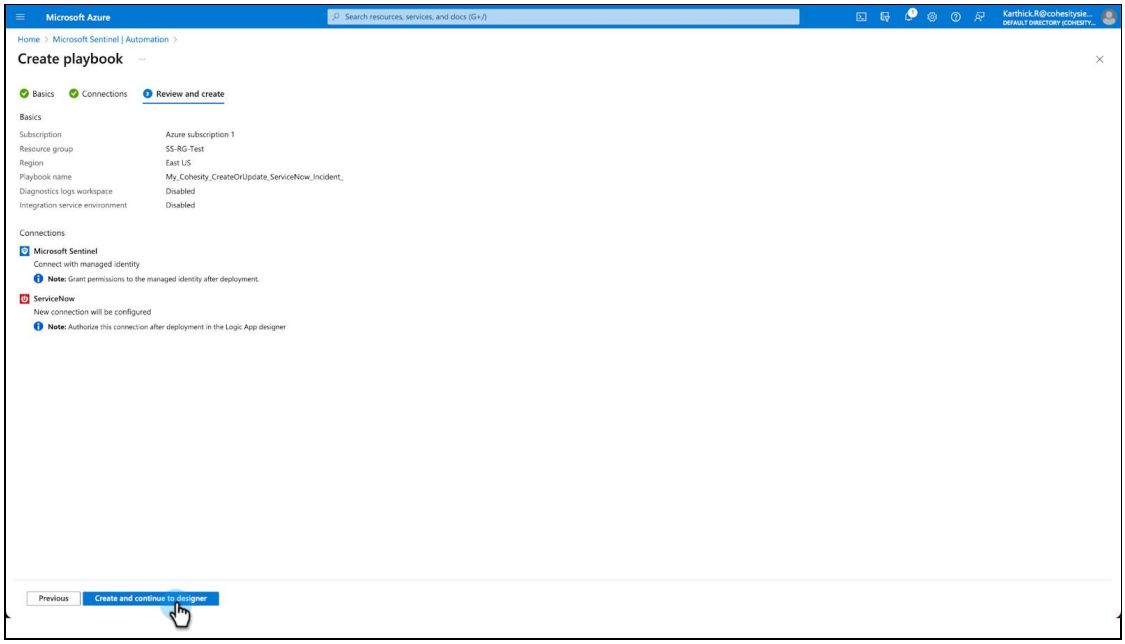
3. Enter the **field details** and select **Next: Connections**:
   - **Subscription**
   - **Resource group**
   - **Playbook Name**



4. Click **Next: Review and create.** This will review and validate the parameter details.



5. Select **Create and continue to designer**.



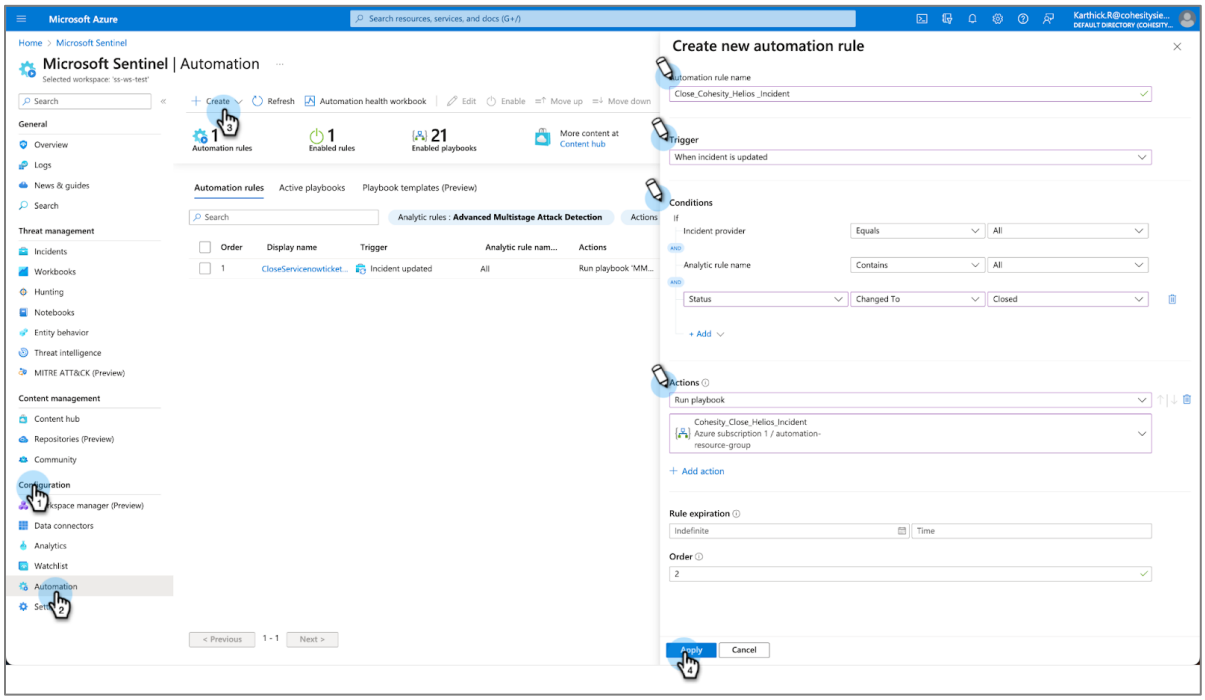
6. After creating the playbook, Grant KeyVault Permissions for the playbook to access the objects.

Create Automation Rule to Resolve Cohesity Data Cloud Alerts

You can create an automation rule to resolve alerts on Cohesity Data Cloud. To create an automation rule follow the below steps:

1. In your Microsoft Sentinel workspace instance, go to the **Automation** tab under the **Configuration** pane.
2. Select **Create** > **Automation Rule**.
3. From the automation rule panel, Enter the **Field details** and select **Apply**
   - **Automation rule name** -<Enter a name for your rule>
   - **Trigger** - <From the Trigger drop-down, select the appropriate trigger according to the circumstance for which you're creating the automation rule - ***"When incident is updated***">
   - **Conditions** - <Define the conditions>
   - **Actions** - <Add a run playbook action, you will be prompted to choose from the drop-down list of Cohesity playbooks>
   - **Rule Expiration** - <Set an expiration date for your automation rule if you want it to have one>
   - **Order** - <Enter a number under Order to determine where in the sequence of automation rules this rule will run>

NOTE: You should create this automation rule only if you're using Microsoft Sentinel as the only SIEM/SOAR solution. If you're also using another SIEM/SOAR solution, then resolving the alerts through Microsoft Sentinel may remove it from the other SIEM/SOAR solutions.

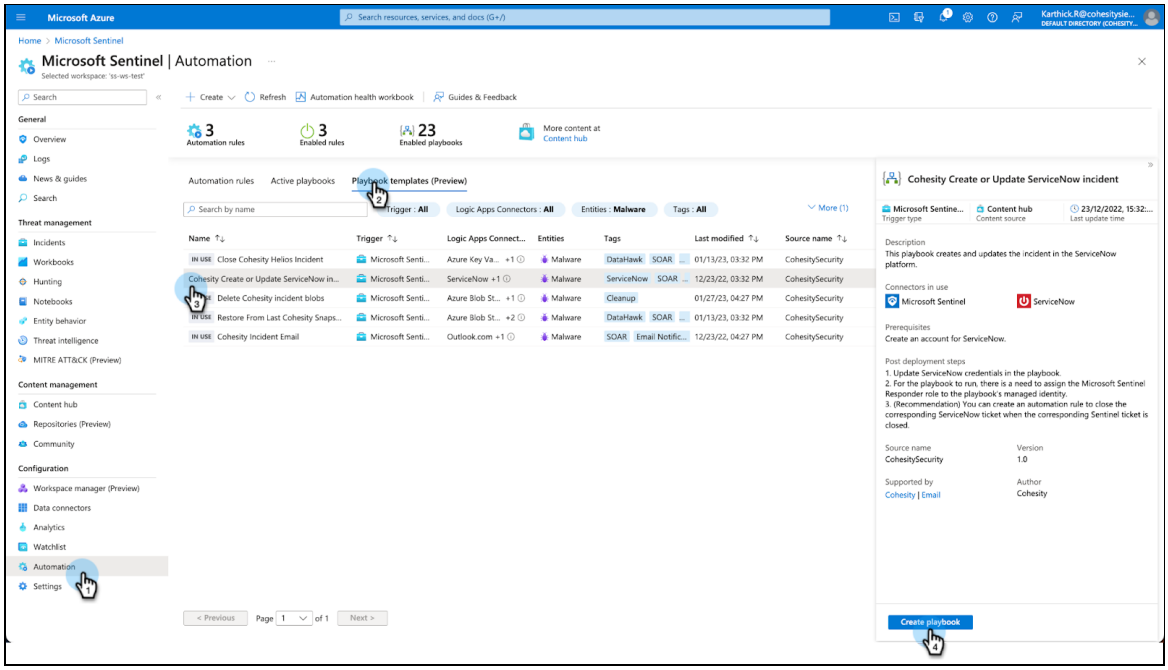


Cohesity Create or Update ServiceNow Incident

This playbook creates a ticket on ServiceNow's platform. It can also be used for updating the ticket or closing it on ServiceNow. Once you assign the permissions to access the playbook, you have to perform the below configuration steps to enable this playbook:

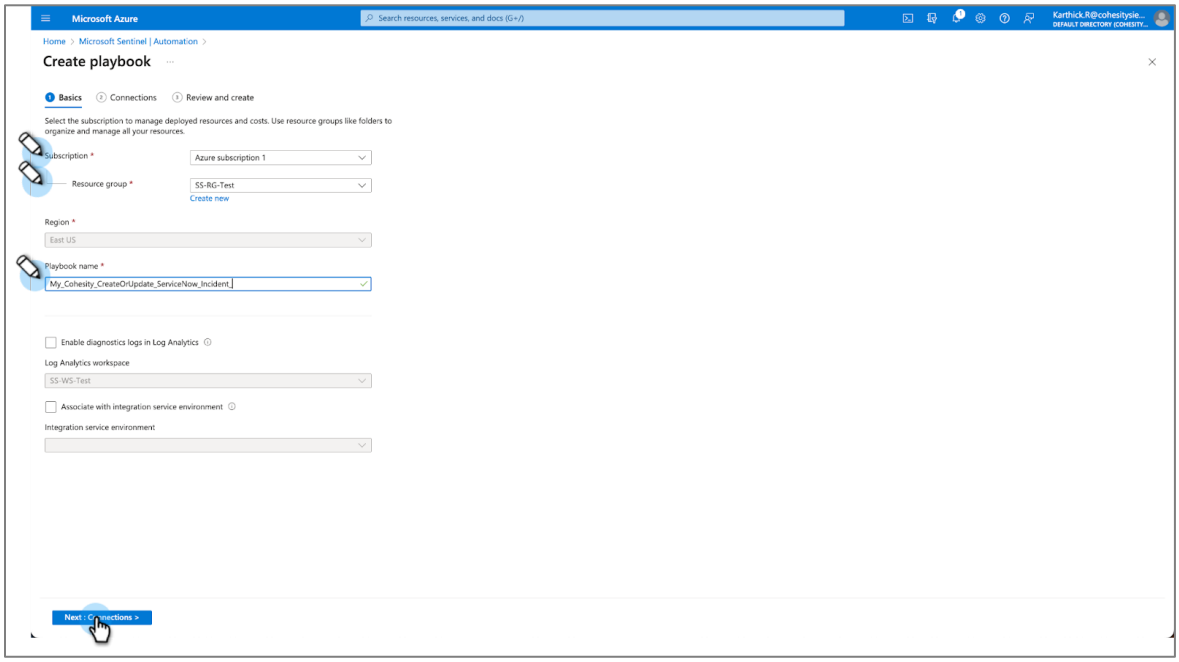
1. From the workspace, under the Configuration pane, navigate to the **Automation** tab, and select **Cohesity Create or Update ServiceNow Incident.**

2. Click **Create playbook**.

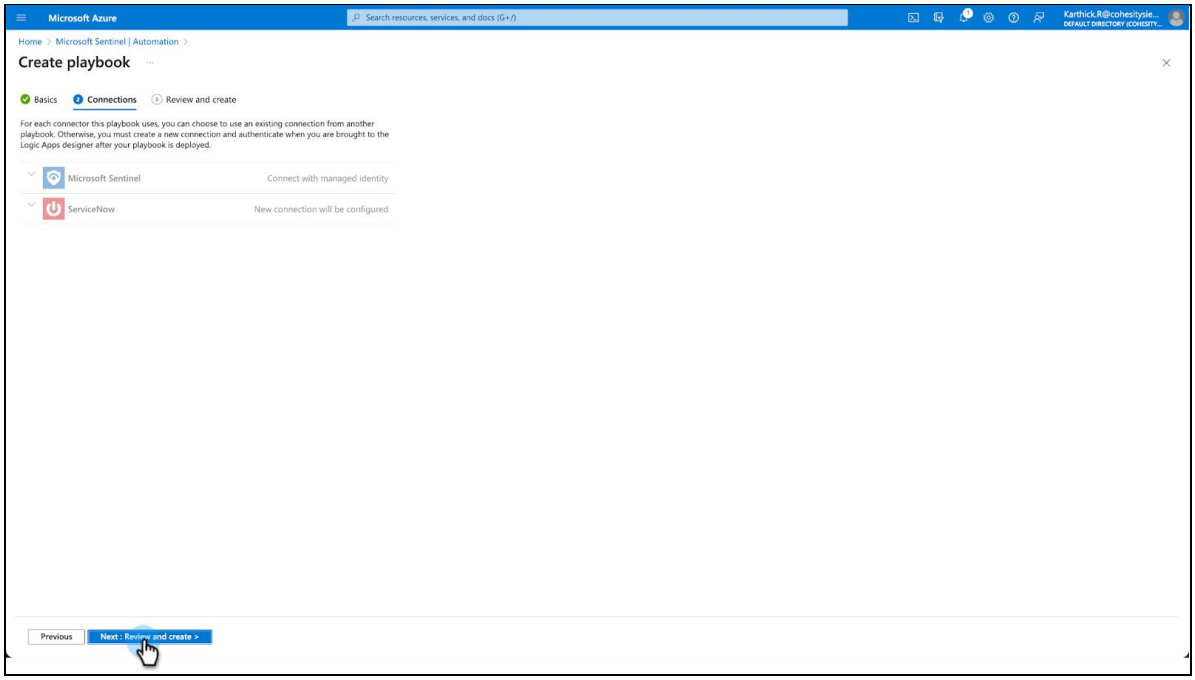


3. Enter the **field details** and click **Next: Connections**:

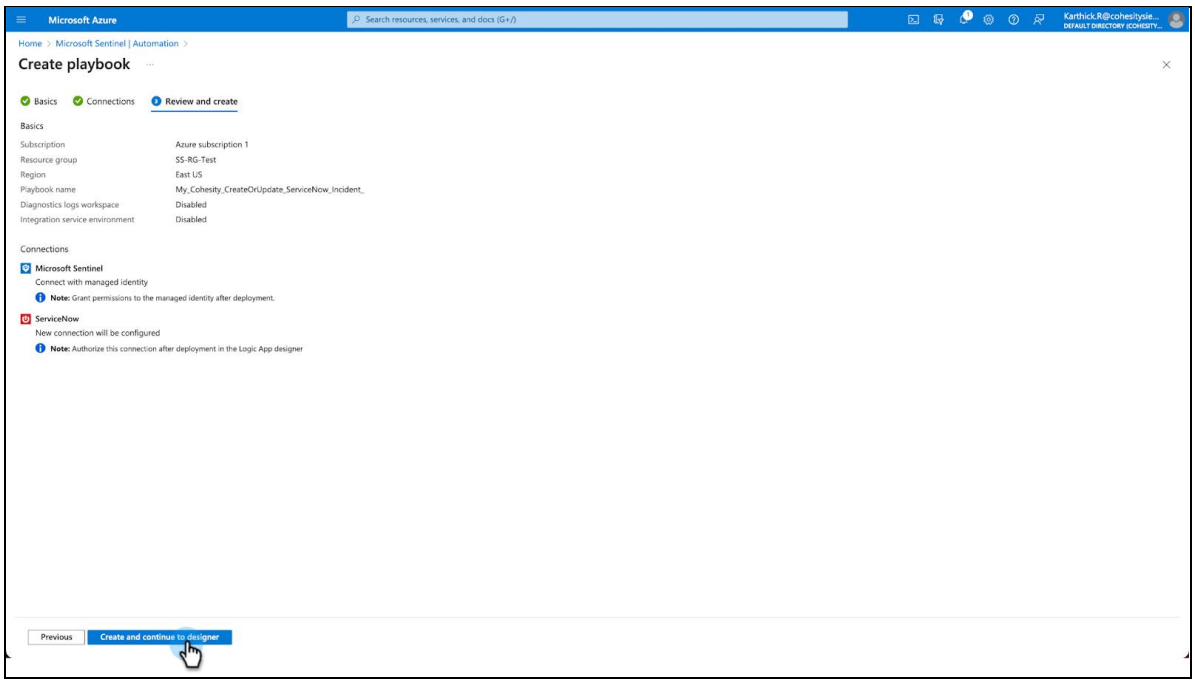
- **Subscription**
- **Resource group**
- **Playbook Name**



4. Click **Next: Review and create.** This will review and validate the parameter details.



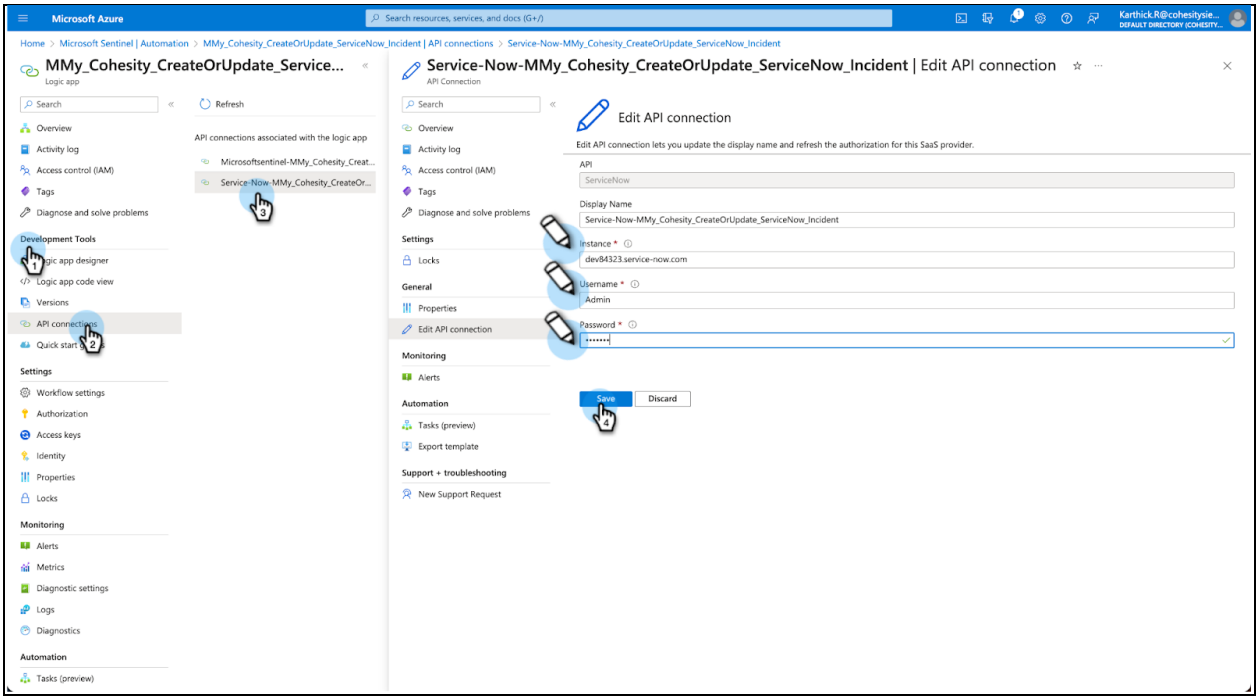
5. Click **Create and Continue to designer.** This will redirect to the Logic apps window to authorize the API connections.



Authorize Microsoft Sentinel to Access ServiceNow Account

After creating the playbook, the next step is to authorize Microsoft Sentinel to access your ServiceNow account. Follow the below steps to enable the ServiceNow API connections:

1. Go to **Logic Apps** and choose your playbook "**Cohesity Create or Update ServiceNow Incident".**
2. Select **Development Tools** > **API Connections**.
3. Select a **ServiceNow connection** to authorize.
4. Select **General** > **Edit API Connection**.
5. Enter the domain of your **ServiceNow instance** and credentials.
6. Click **Save**.



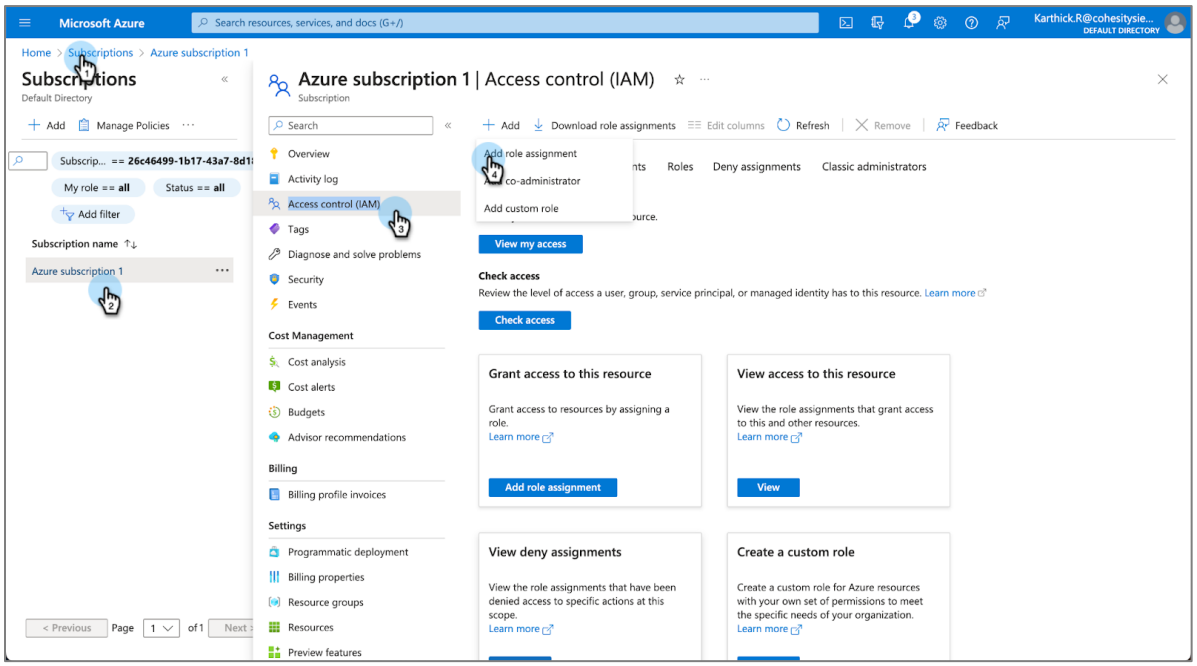
Assign the Microsoft Sentinel Responder permissions to the created playbook

The created playbook must have responder permission to respond to the alert and take automated actions.

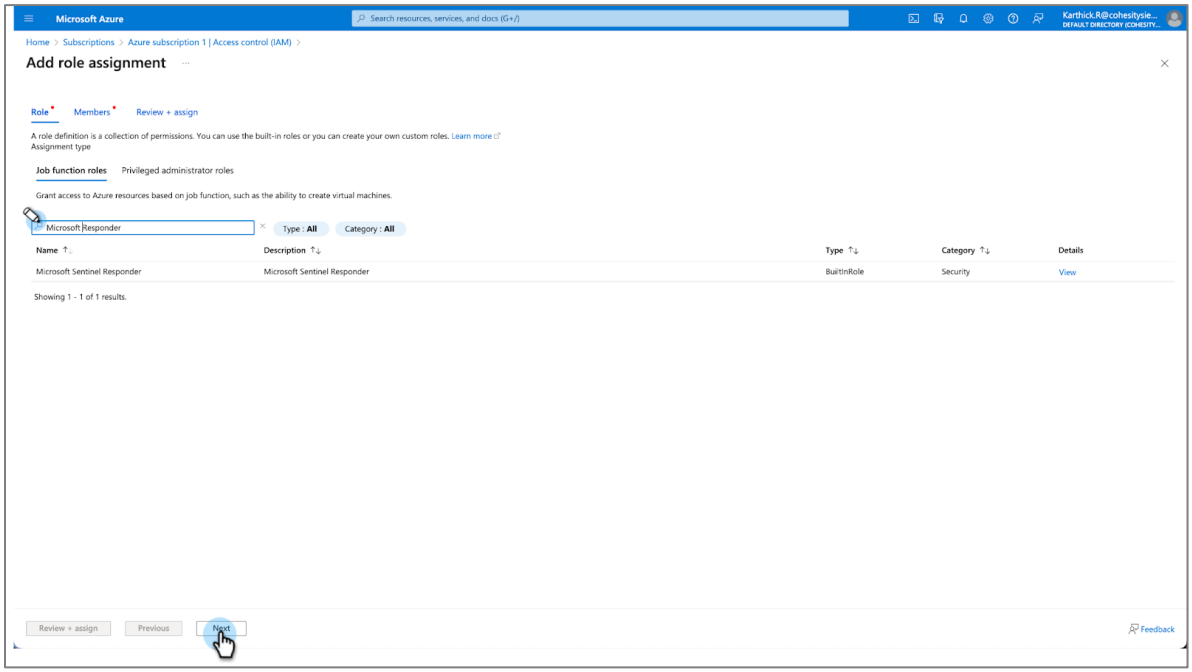
To assign the role:

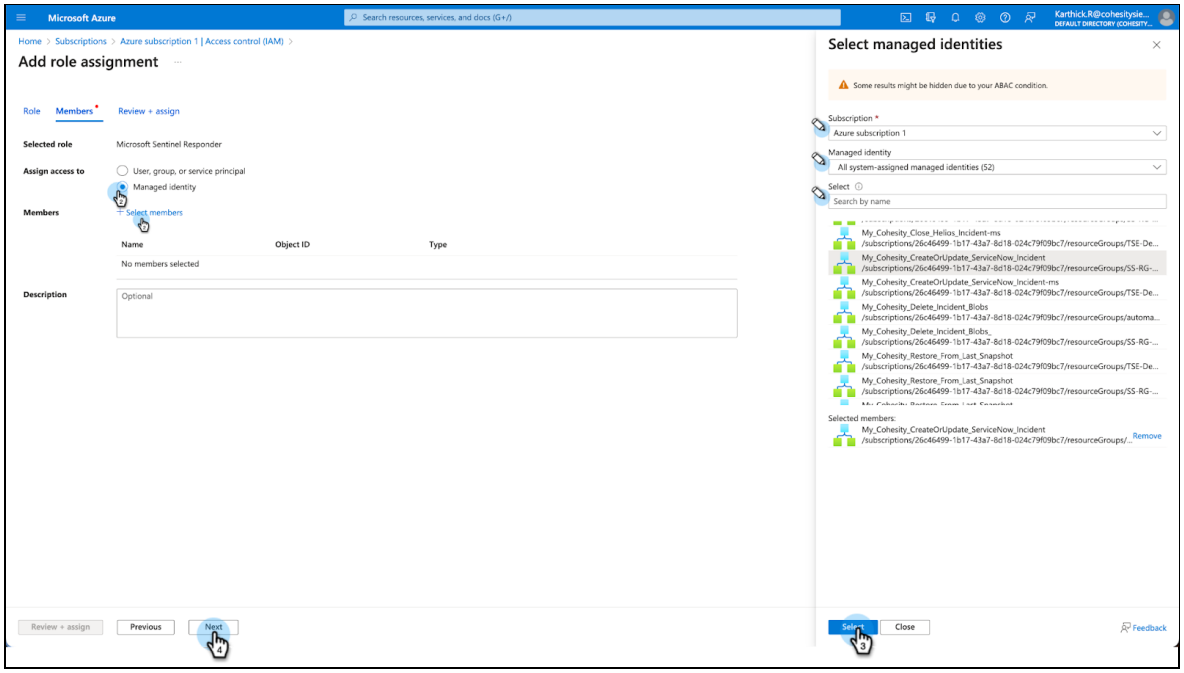
1. Under the **Subscriptions** tab from the **Home** page, choose your subscription name.
2. On the left pane, select **Access Control (IAM)**.

3. Select **Add** > **Add Role Assignment.**

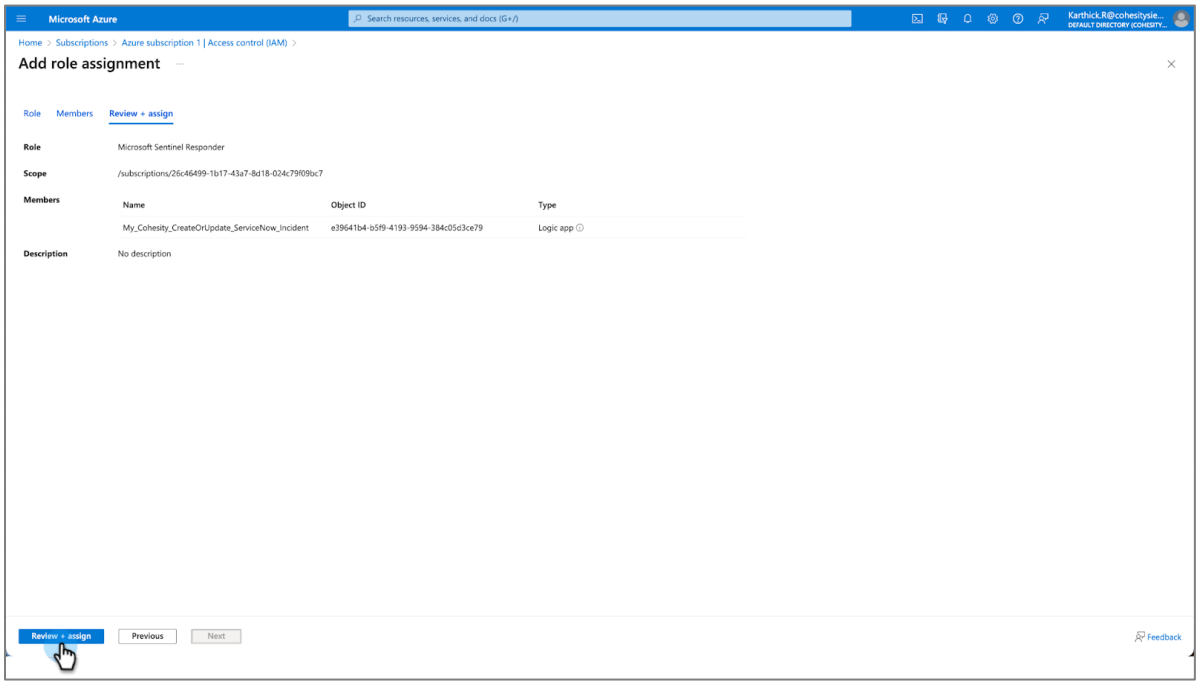


4. Add **Microsoft Sentinel Responder** to the created playbook name.





5. Click **Next** and select **Review + Assign.** This will assign the **Microsoft Sentinel Responder** permissions to the playbook.



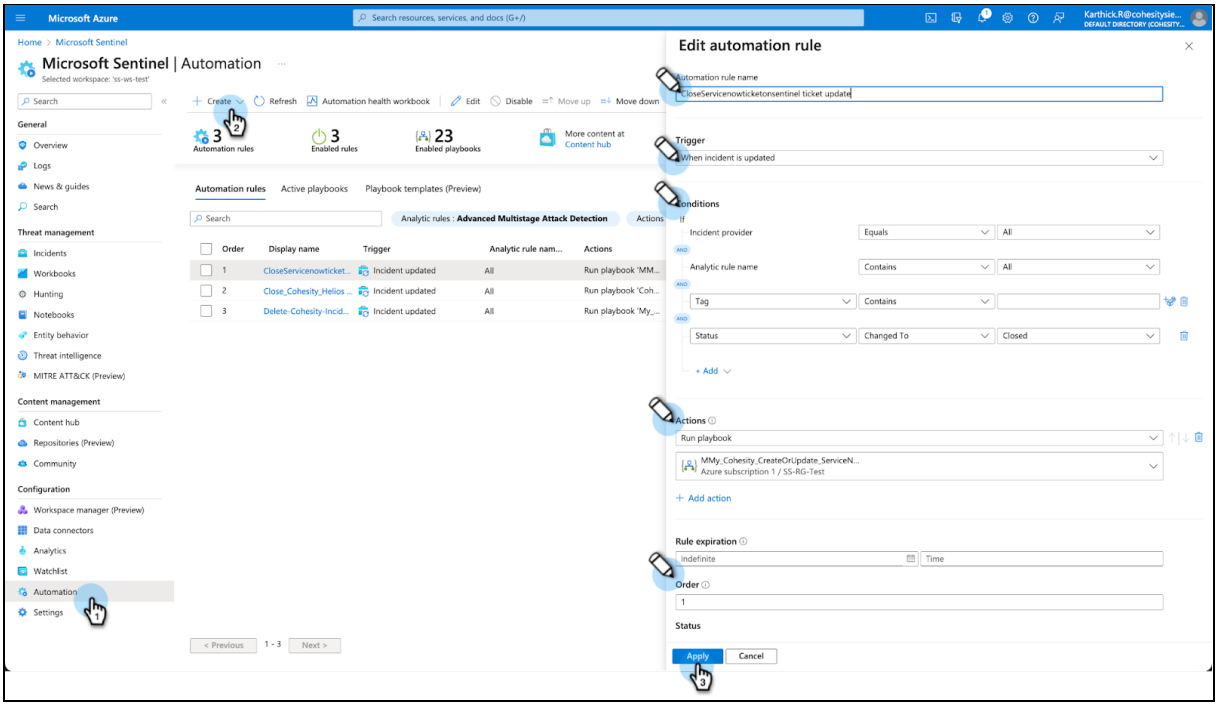
Create Automation Rule to Close ServiceNow Incidents

To automate the ServiceNow actions from Microsoft Sentinel, you can create an automation rule for SNOW_Record_Create_Update_Playbook. This means that if an incident in Microsoft Sentinel is closed and the corresponding incident in ServiceNow is open, then this automation rule will ensure to run the playbook and close the incidents in the ServiceNow platform.

To create an automation rule:

1. In Microsoft Sentinel, go to the **Automation** tab under the **Configuration** pane.
2. Click on **Create** > **Automation Rule**.
3. From the automation rule panel, enter the **Field details**, and click **Apply**
   - **Automation rule name** - <Enter a name for your rule>
   - **Trigger** - <From the Trigger drop-down, select the appropriate trigger according to the circumstance for which you're creating the automation rule such as when the incident is updated>
   - **Conditions** - <Define the conditions to match>
   - **Actions** - <Add a run playbook action, you will be prompted to choose from the drop-down list of Cohesity playbooks>
   - **Rule Expiration** - <Set an expiration date for your automation rule if you want it to have one>
   - **Order** - <Enter a number under Order to determine where in the sequence of automation rules this rule will run>

NOTE: You can create the incident on ServiceNow using playbook **SNOW-CreateAndUpdateIncident.**

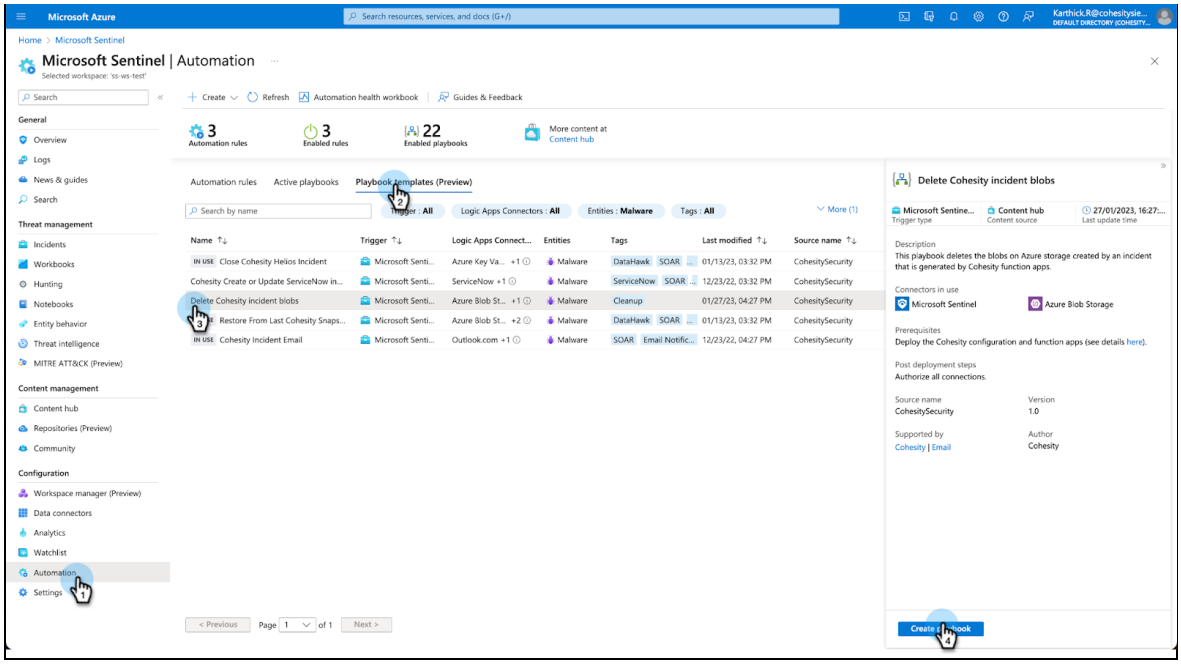


Delete Cohesity Incident Blobs

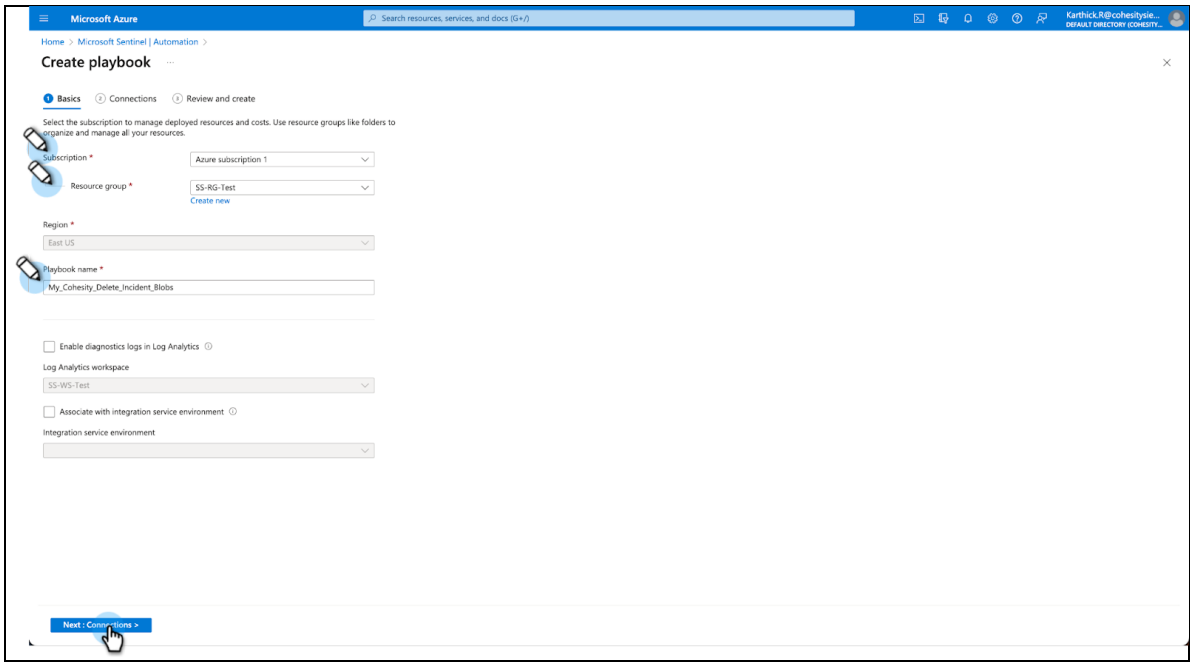
The data on Azure storage created by a Microsoft Sentinel incident is not required once the ransomware alert on Cohesity Helios is resolved. This playbook allows you to delete those blobs. Once you assign the permissions to access the playbook, you need to perform the below configuration steps to enable this playbook:

NOTE: Cohesity recommends running this playbook as per organizational policy to clean up storage.

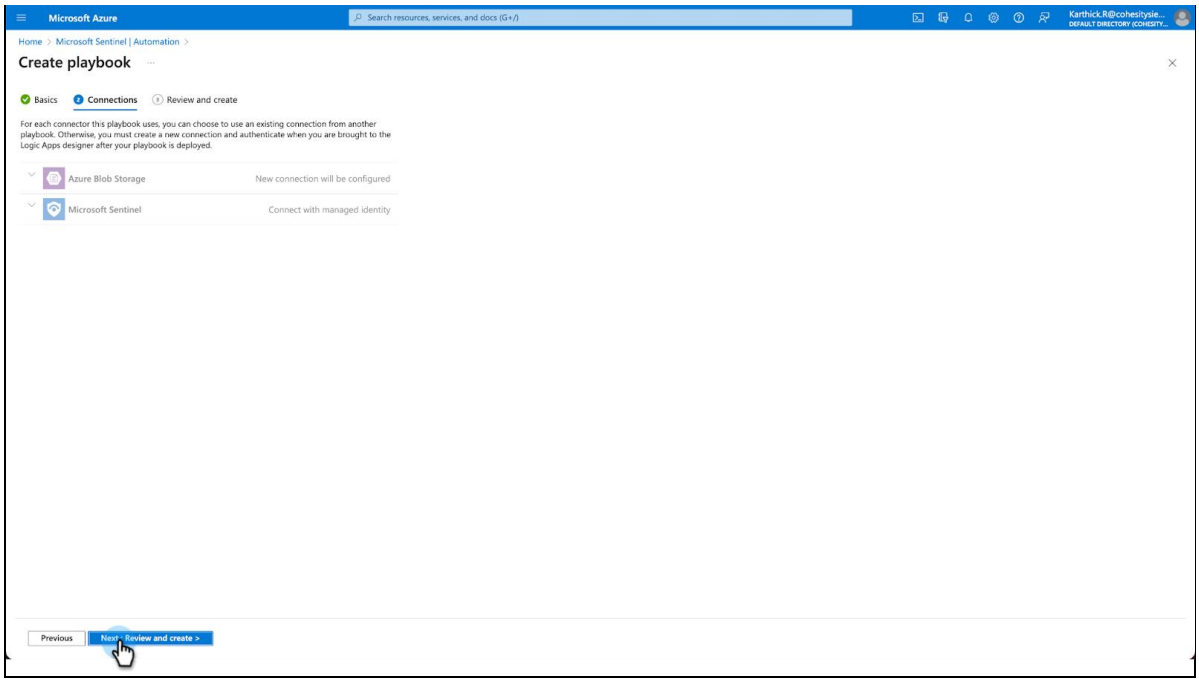
1. From the workspace, under the Configuration pane, navigate to the **Automation** tab and select **Delete Cohesity Incident Blobs.**
2. Click **Create playbook.**



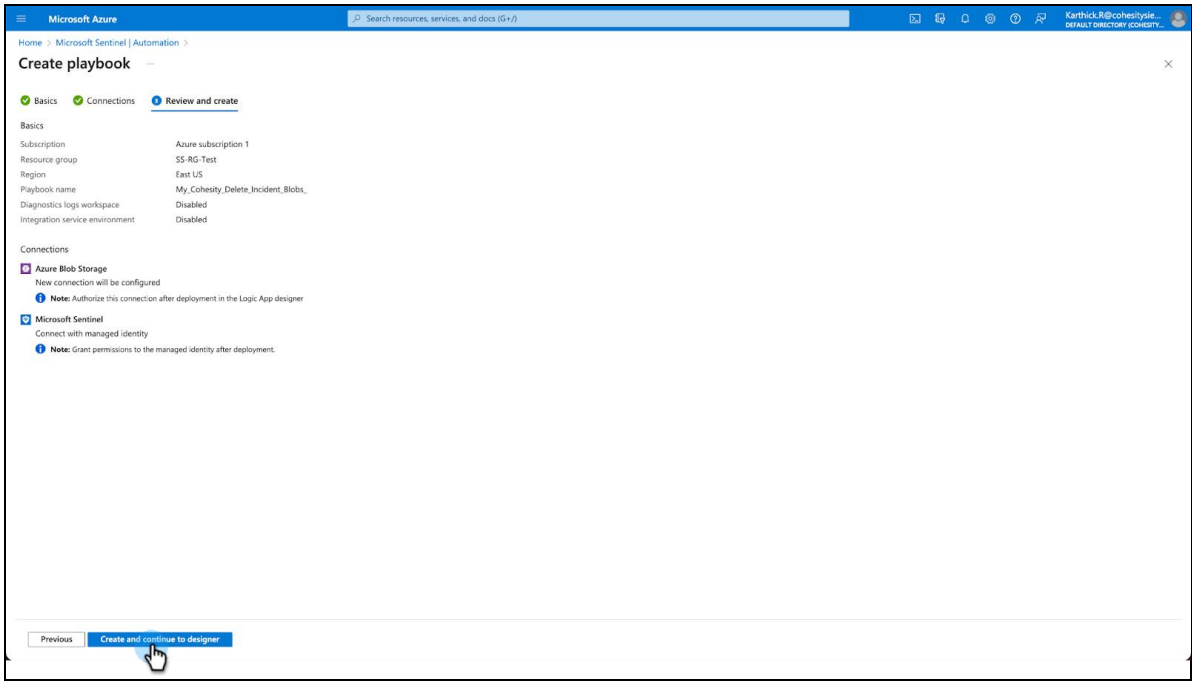
3. Enter the field **details** and click **Next: Connections**:
   - **Subscription**
   - **Resource group**
   - **Playbook Name**



4. Click **Next: Review and create.** This will review and validate the parameter details.



5. Click **Create and Continue to designer.** This will redirect to the Logic apps window to authorize the API connections.



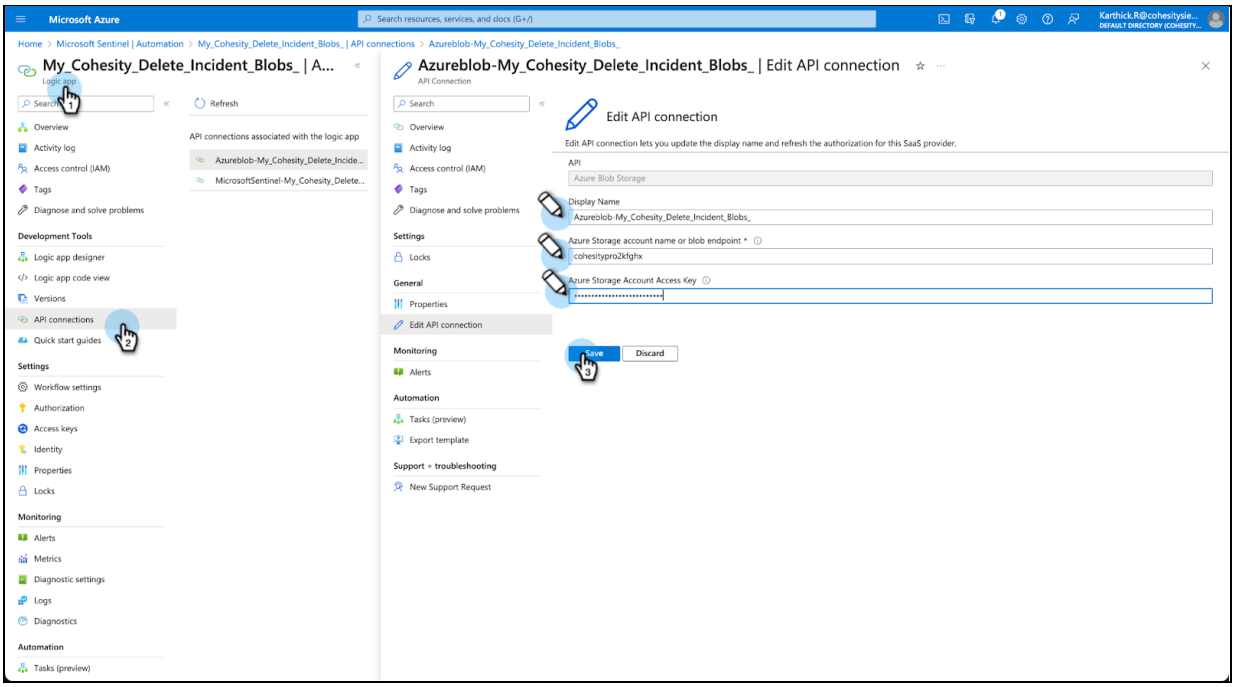
Authorize Connections to Microsoft Azure Blob Storage

After creating the playbook, you should authorize a connection from the Logic Apps to access Blob storage. Follow the below steps to authorize the connections:

1. Go to **Logic Apps** and choose your playbook.
2. In the **Development Tools** section, select **API Connections**. In the left pane, the list of connections is displayed that require authorization.
3. Authorize the Azure blob storage connection by selecting it and clicking **General** > **Edit API Connection.**

4. Enter your **connection name, storage account name (starts with Cohesitypro****),** and **access key.**

NOTE: You can find your storage account name and access keys under **storage account tab** and then go to **Security + Networking** > **Access Keys**.

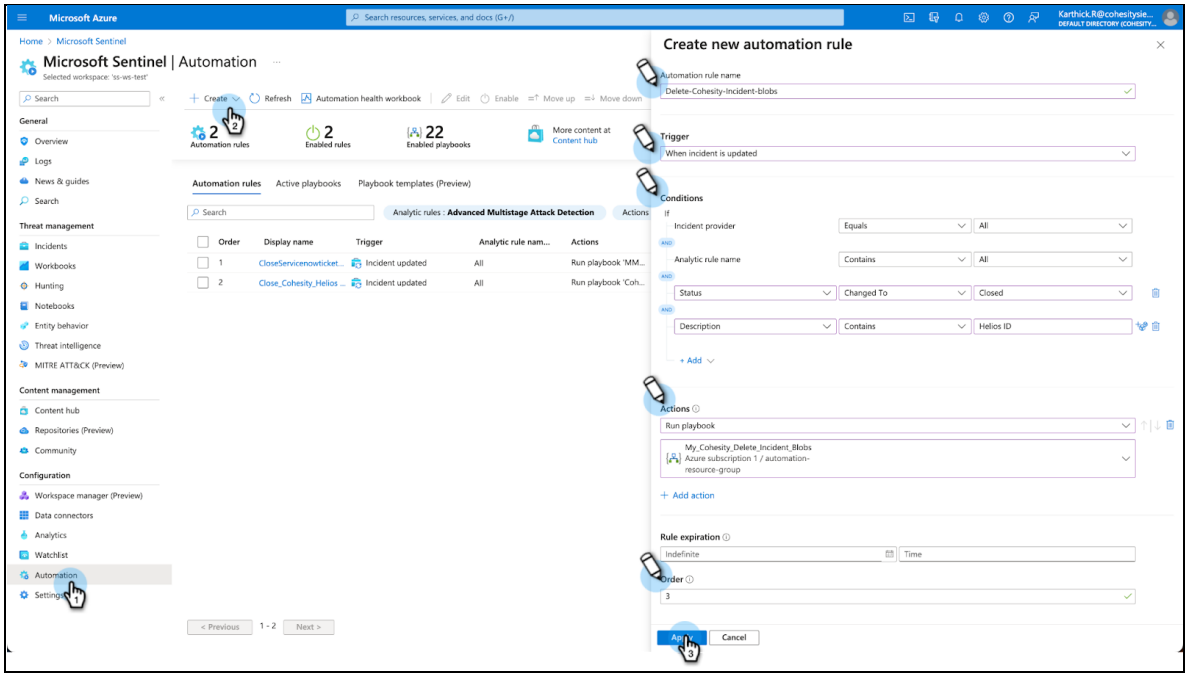


Create Automation Rule to Delete Azure Blobs

You can create an automation rule to delete the blobs used for an incident by running this playbook when the corresponding Sentinel ticket is closed. You need to perform the following configuration steps to create an automated rule for this playbook:

1. In Microsoft Sentinel, go to the **Automation** tab under the **Configuration** pane.
2. Click **Create** > **Automation Rule**.
3. From the automation rule panel, enter the **Field details**, and click **Apply.**
   - **Automation rule name** - <Enter a name for your rule.>
   - **Trigger** - <From the Trigger drop-down, select the appropriate trigger according to the circumstance for which you're creating the automation rule such as when the incident is updated.>
   - **Conditions** - <Define the conditions to match.>
   - **Actions** - <Add a run playbook action, you will be prompted to choose from the drop-down list of Cohesity playbooks.>
   - **Rule Expiration** - <Set an expiration date for your automation rule if you want it to have one.>

- **Order** - <Enter a number under Order to determine where in the sequence of automation rules this rule will run.>

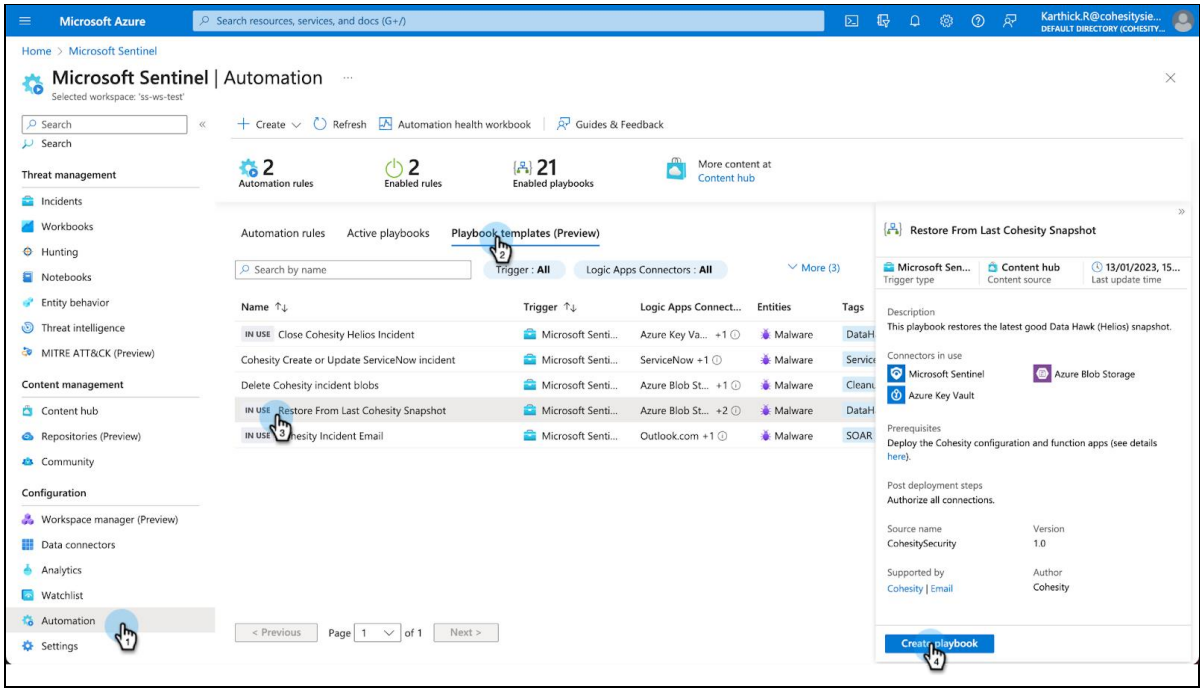


Restore From Last Cohesity Snapshot Playbook

This playbook allows you to restore your data from a clean snapshot. After you assign the permissions to the playbook, you need to perform the following configuration steps to enable this playbook:

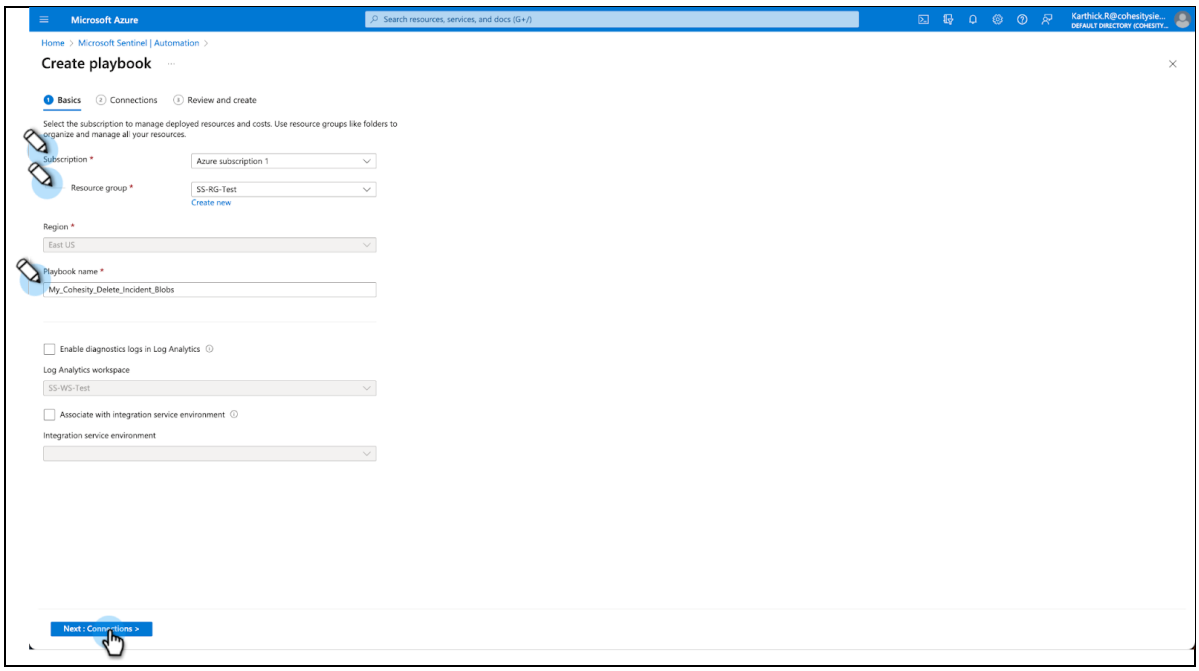
1. From the workspace, under the **Configuration** pane, navigate to the **Automation tab** and select **“Restore from last Cohesity Snapshot”.**

2. Click **Create playbook.**

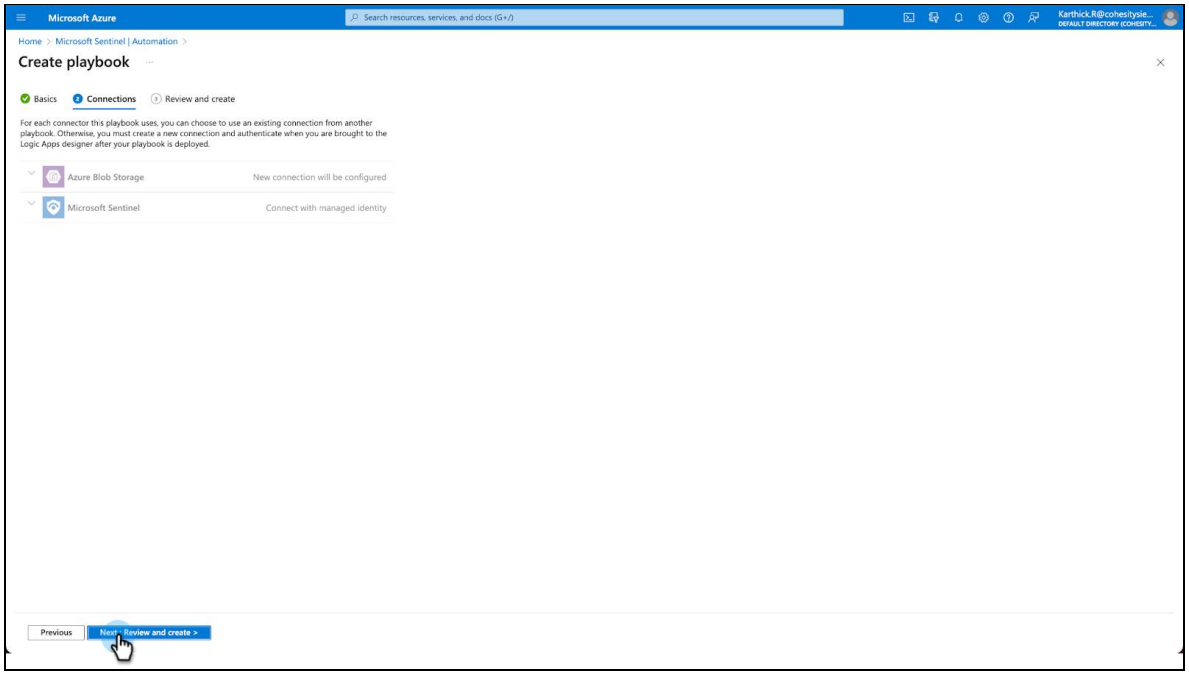


3. Enter the **field details** and click **Next: Connections:**

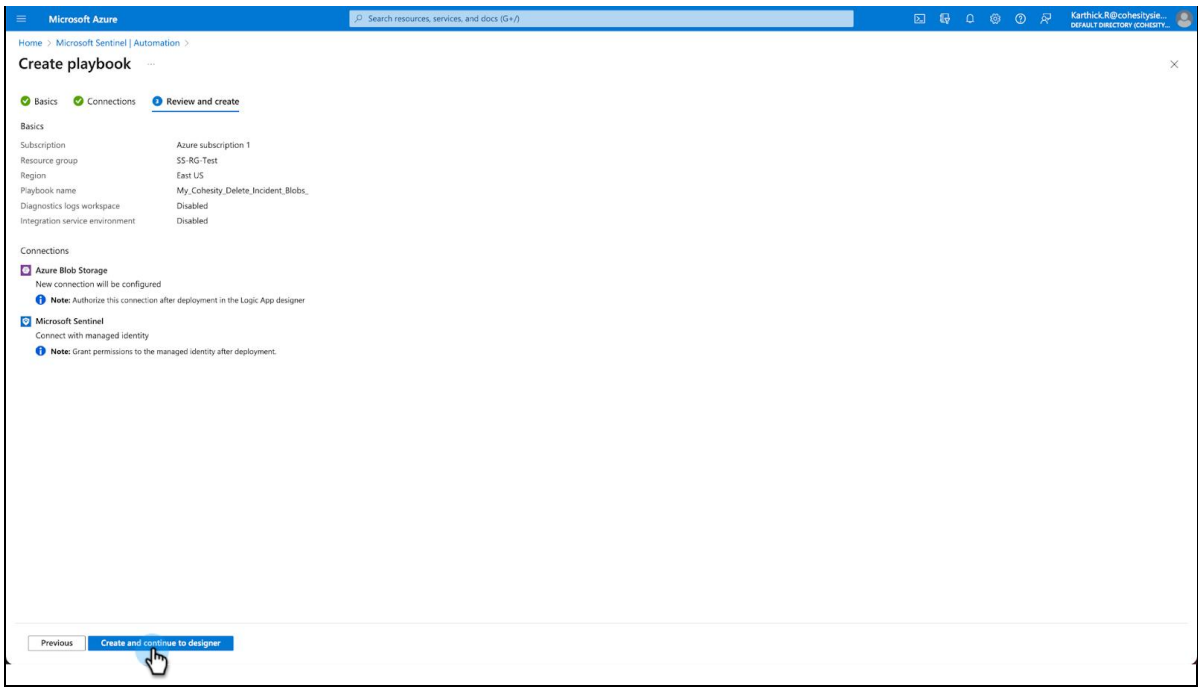
- **Subscription**
- **Resource group**
- **Playbook Name**



4. Click **Next: Review and create.** This reviews and validates the parameter details.



5. Click **Create and continue to designer.** This will redirect to the Logic apps window to authorize the API connections.

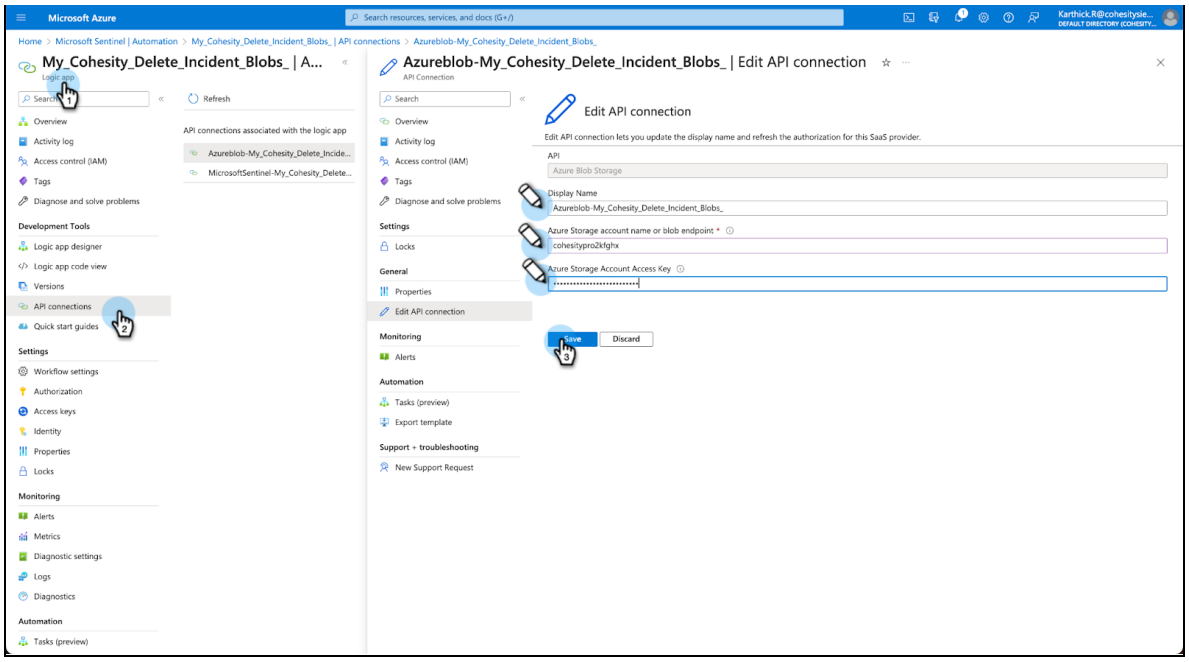


Authorize Connections to Microsoft Azure Blob Storage

After creating the playbook, You should authorize a connection from the Logic Apps to access Blob storage. Follow the below steps to authorize the connections:

1. Go to **Logic Apps** and choose your playbook.
2. In the **Development Tools** section, select **API Connections**. In the left pane, the list of connections is displayed that require authorization.
3. Authorize the Azure blob storage connection by selecting it and clicking **General** > **Edit API Connection.**
4. Enter your connection name, storage account name (starts with Cohesitypro****), and access key.

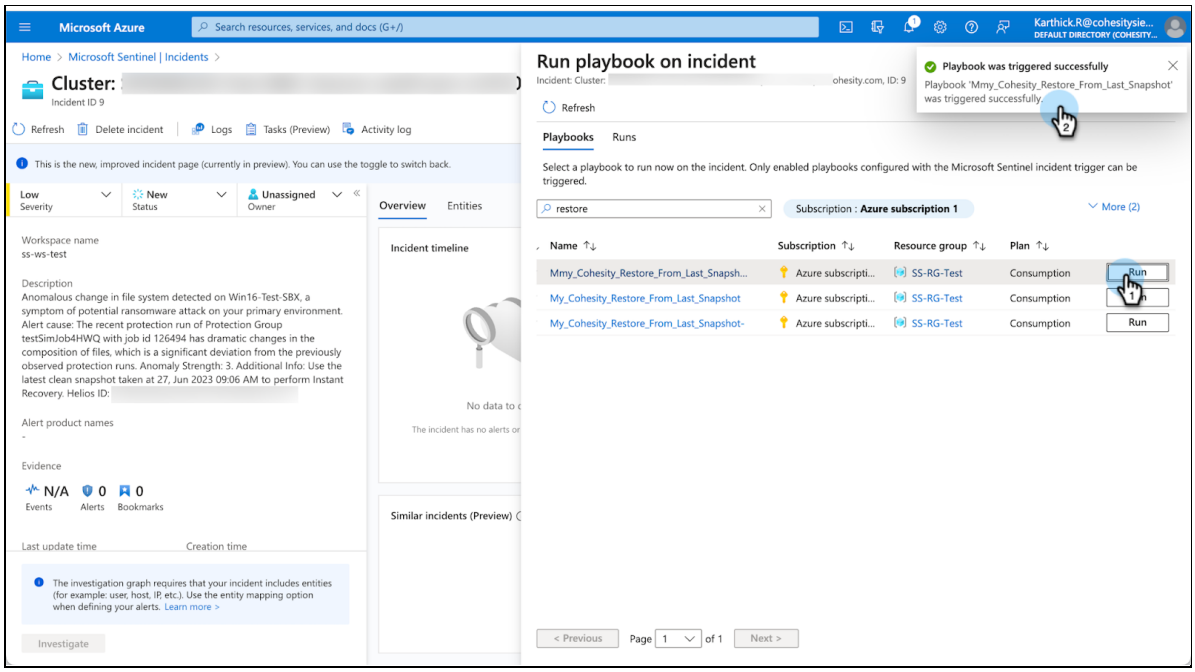
NOTE: You can find your storage account name and access keys under **storage account tab** and then go to **Security + Networking** > **Access Keys**.



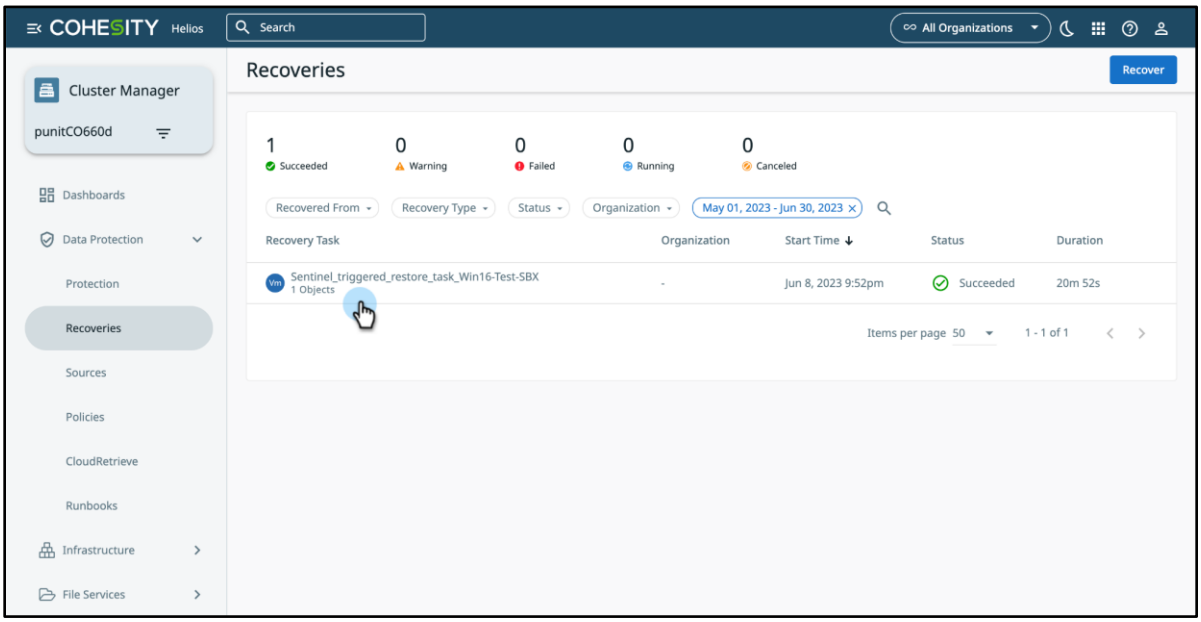
5. After adding connections to **Microsoft Azure Blob Storage**, the next step is to Grant KeyVault Permissions for the playbook to access the objects.

6. Once the permissions are permissions are granted, go to the **Incidents tab** under the selected workspace, and select **Run** to trigger the playbook after investigating the incident.

NOTE: Cohesity recommends that only a backup administrator should have the necessary permissions to run **Restore from Last Snapshot** as it involves handling sensitive user data**.**



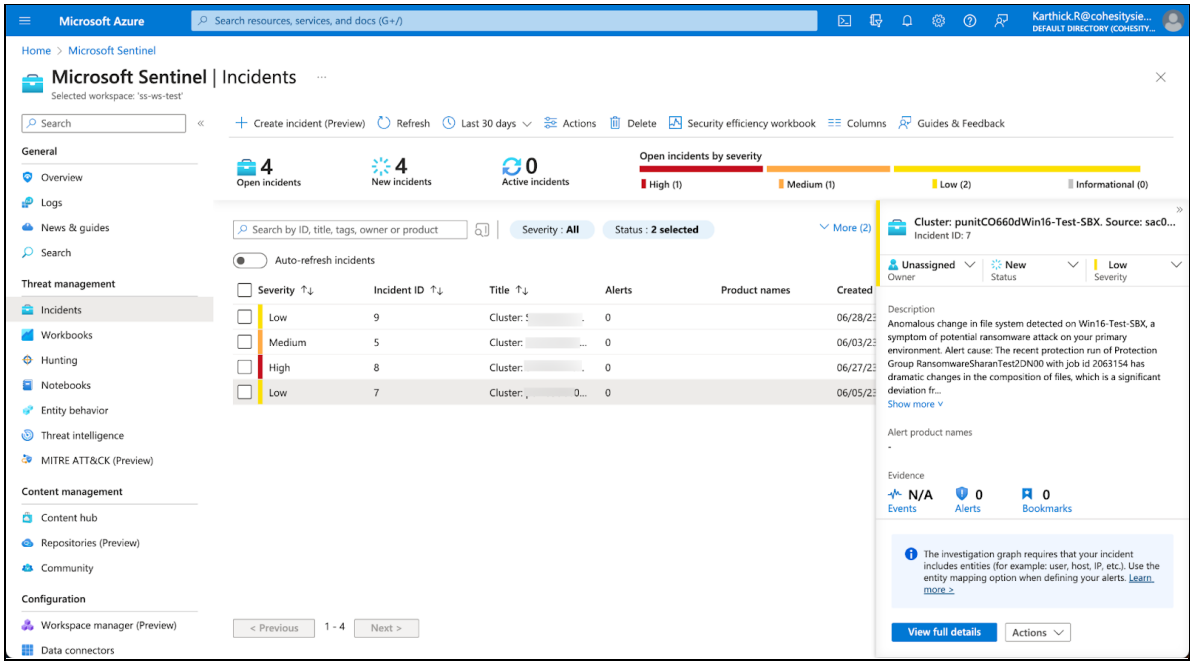
7. This will trigger the **Restore** action from the last clean snapshot on Cohesity Helios from the Microsoft Sentinel platform.



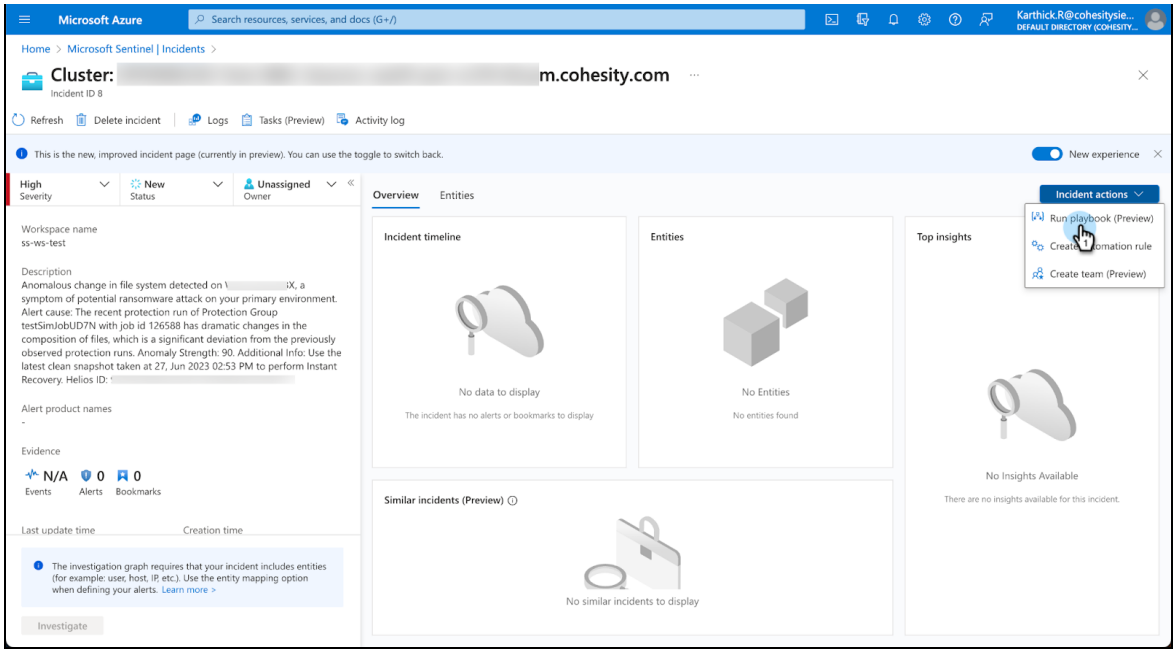
Investigate an Incident

After you successfully configure the playbook on Microsoft Sentinel, you can investigate your Anomaly alert triggers from Cohesity Data cloud more quickly, effectively, and efficiently, thereby reducing your mean time to resolve (MTTR).

1. From the Microsoft Sentinel navigation menu, under **Threat management,** select Incidents. The Incidents page gives you basic information about all of your open incidents whether they are new, active, or closed.
2. For each incident, you can see the time it occurred and the status of the incident. Look at the severity to decide which incidents to handle first.



3. To view more details about the alerts and entities in the incident, select **View full details** in the **incident page** and review the relevant tabs that summarize the incident information (Such as **Helios Id, Object Id, Description,** and the **cause of alert).**



4. Once you check the incident, depending on the investigation, you can take multiple actions on it.
5. From the incident pane, click **Actions** > **Run Playbook**.

   The **Run Playbook** pane is displayed with the following playbooks.

   - **Cohesity_Send_Incident_Email** - Sends an email to the recipient with the details related to the incidents.
   - **Cohesity_CreateOrUpdate_ServiceNow_Incident** - Creates and updates the incident in the ServiceNow platform.
   - **Cohesity_Close_Helios_Incident** - Allows you to resolve alerts on Cohesity Data Cloud.
   - **Cohesity_Restore_From_Last_Snapshot** - Allows you to restore your data from a clean snapshot.
   - **Cohesity_Delete_Incident_Blobs** - Deletes the blobs on Azure storage created by an incident that is generated by Cohesity function apps.
6. You can choose to run any playbook after an alert Investigation to trigger the actions.

NOTE: Cohesity recommends that only a backup administrator should have the necessary permissions to run **Restore from Last Snapshot** and **Close Cohesity Helios Incident.**

Prerequisites

You have to meet the following prerequisites before starting the integration.

- A Cohesity Data Cloud user account with permissions to create and manage API keys and create a custom role. For more information, see Access Management in Cohesity Data Cloud documentation.
- Create new API keys on Cohesity Data Cloud to authenticate an application or script for management through APIs.
- If your organization uses ServiceNow Now Platform to track incidents, then you can integrate it with Cohesity Helios. You would need a ServiceNow user account with the required permissions to create and update any incident in the ServiceNow Now platform.[Optional]
- You should have an account on ServiceNow's Now Platform to add the instance details for configuring the ServiceNow playbook.
- Create an email address that you can use for sending out incident email notifications.
- Ensure you have assigned the relevant permissions to the playbook to operate and respond from MS Sentinel for automatic action.

Customer Benefits

Microsoft Sentinel integration with Cohesity Data Cloud enables organizations to enhance their security and data protection capabilities.

By integrating Cohesity with Microsoft Sentinel, customers can benefit from the following:

- **Unified threat visibility**–Allows organizations to have a unified view of anomaly events and data protection activities. Security and data protection teams can access a centralized dashboard within Microsoft Sentinel to monitor and analyze the Cohesity-generated anomaly events in real-time.
- **Intelligent threat detection and response**–Combined capabilities of Cohesity and Microsoft Sentinel enable advanced threat detection and response. The integration empowers security teams to quickly identify and respond to security incidents.
- **Streamlined incident management**–Anomalous events detected in Microsoft Sentinel can trigger automated responses within Cohesity, such as initiating data restores to a clean snapshot or creating the ServiceNow ITSM Incident, etc. This automation accelerates incident response and minimizes the impact of security incidents.
- **Compliance Adherence–**Cohesity's integration with Microsoft Sentinel supports compliance and auditing requirements. Organizations can adhere to regulatory standards by leveraging the combined capabilities.

Conclusion

In conclusion, the integration of Microsoft Sentinel with Cohesity brings together security and data protection functionalities, allowing organizations to streamline their security operations, enhance threat detection and response, and ensure the availability and integrity of their data. This integration provides a holistic approach to managing security incidents and protecting critical data assets.

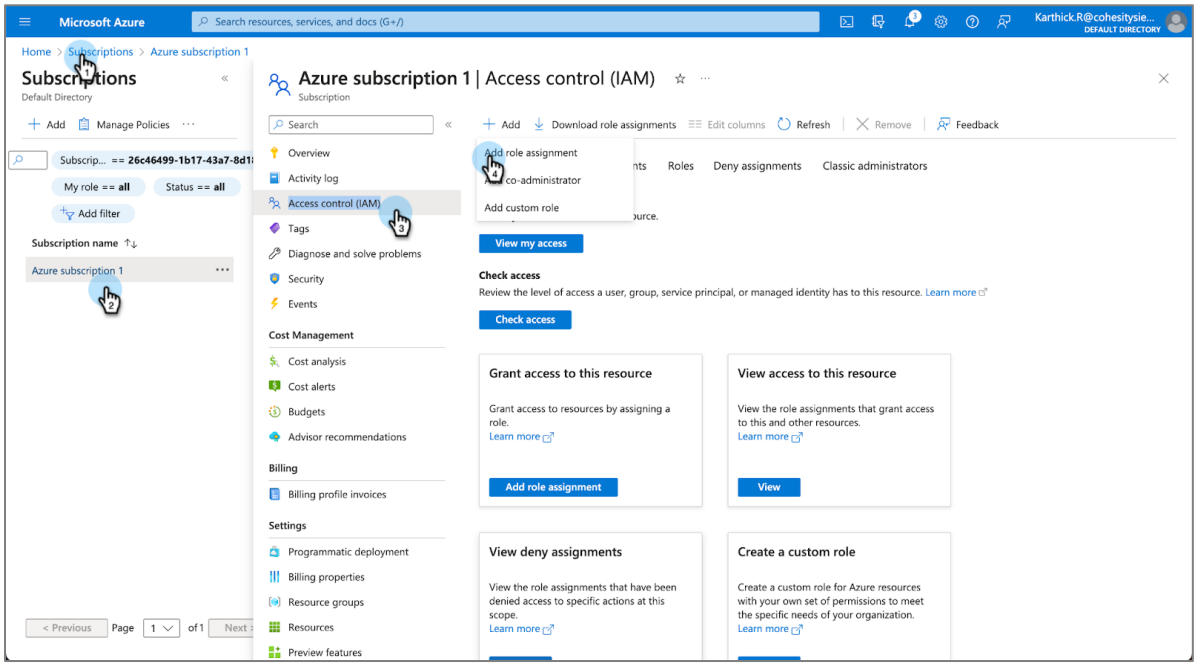
Appendix A

Set Required Permissions to Access Playbook

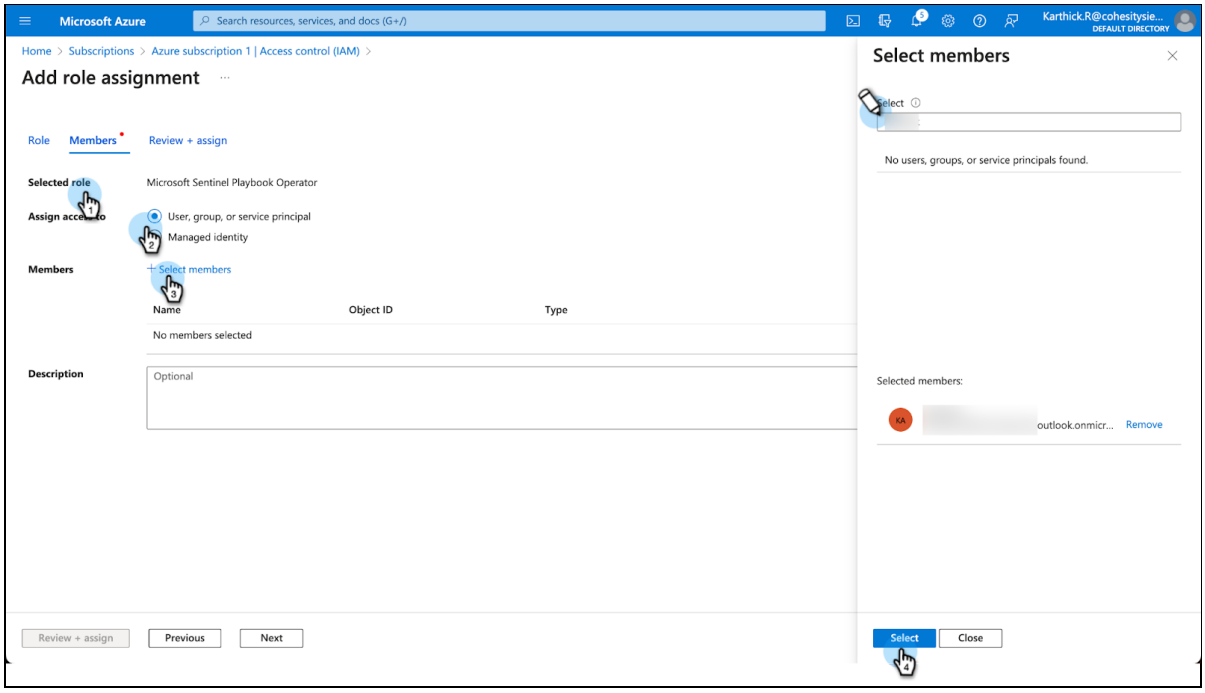
The SOC analyst must have the role of **Microsoft Sentinel Playbook Operator** to run the playbook.

To assign the role:

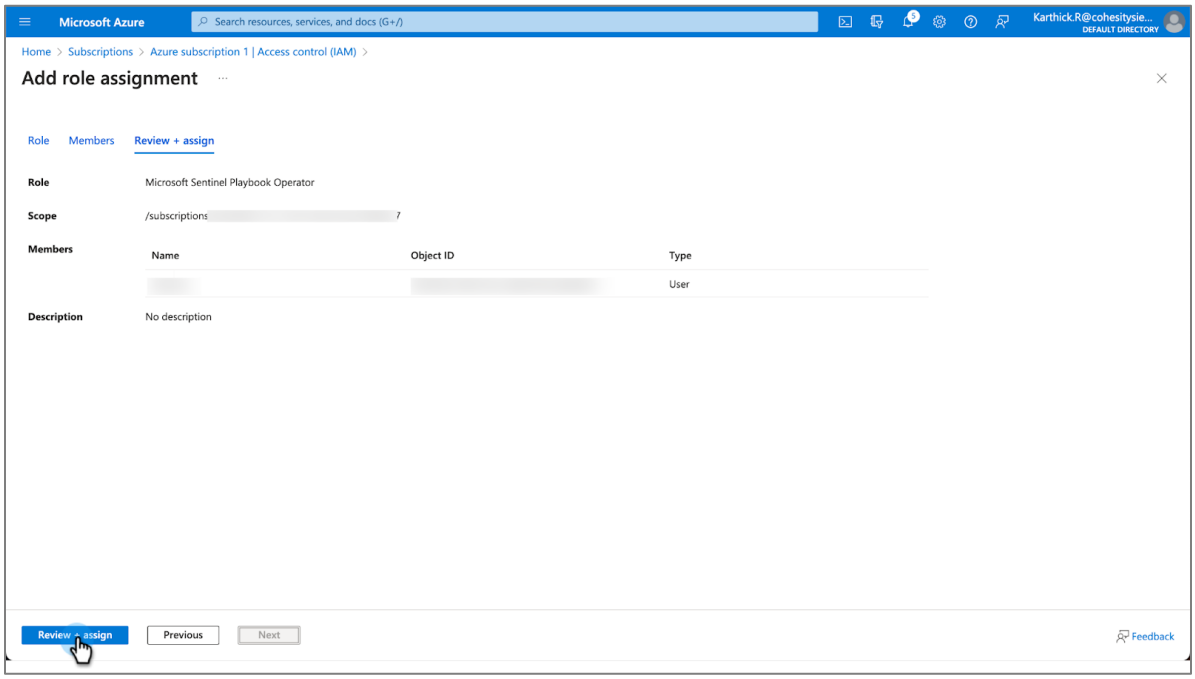
1. Under the **Subscriptions** tab from the **Home** page, choose your subscription name.
2. On the left pane, select **Access Control (IAM)**.
3. Select **Add** > **Add Role Assignment.**



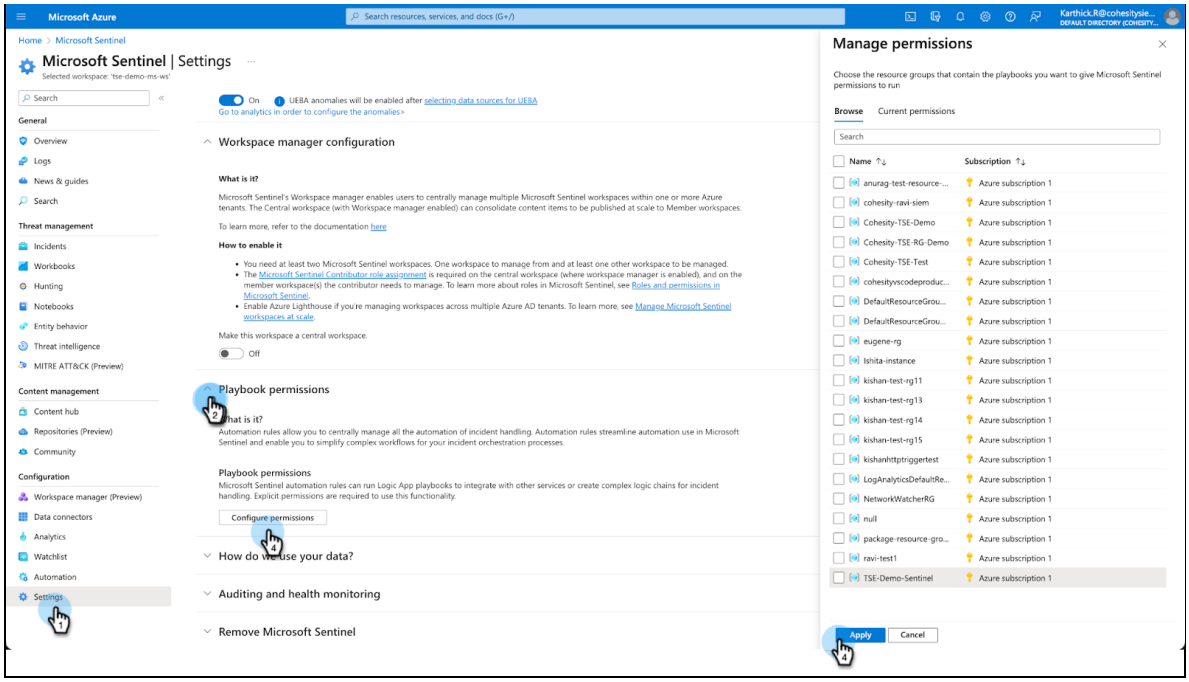
4. Add **Microsoft Sentinel Playbook Operator** to the user.



5. Click **Next** and select **Review + Assign.** This will assign the **Microsoft Sentinel Playbook Operator permissions** to an analyst.



6. After assigning the user permissions you can configure the playbook permission for **Resource group** which allows you to centrally manage all the automation of incident handling. From the Workspace, select **Configuration> Settings> Settings> Playbook permissions.**
7. Select **configure permissions** and select the **resource group name** that contains the playbooks you want to give Microsoft Sentinel permissions to run.



Grant KeyVault Permissions

Azure KeyVault protects cryptographic keys, certificates, and secrets on the Azure cloud.

Once you create the playbooks, then you need to assign the key vault permissions to specific playbook templates to access the objects after deploying the playbooks template.

The playbooks templates which require Keyvault permissions are:

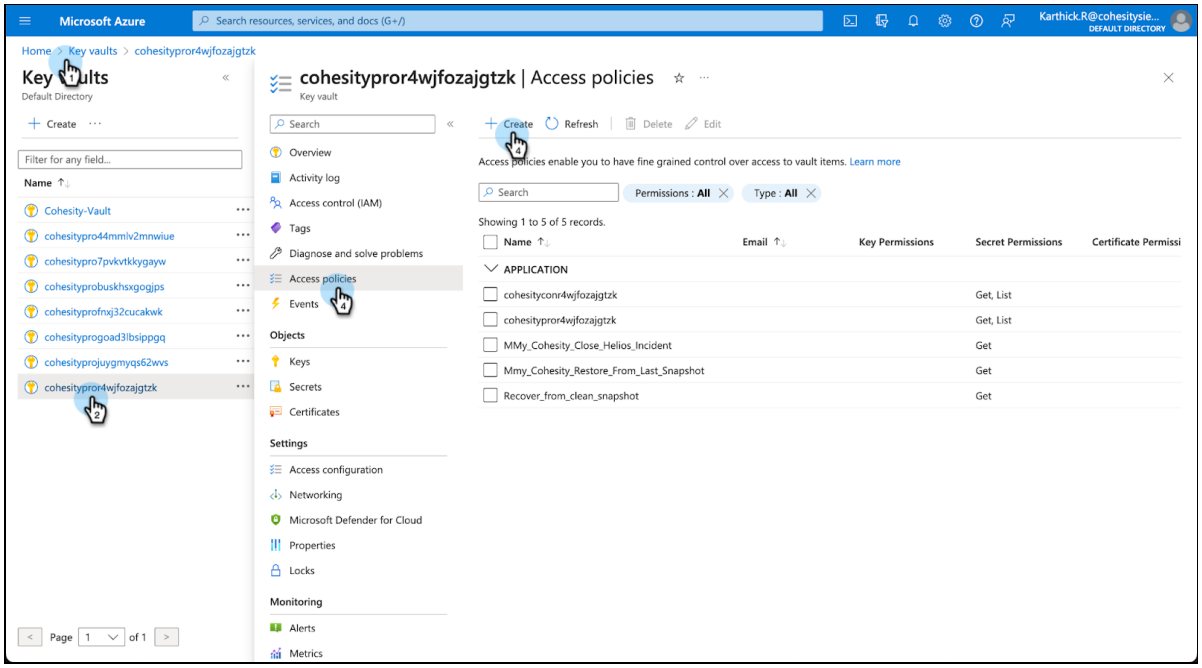
- Cohesity Close Helios Incident
- Delete Cohesity Incident Blobs
- Restore From Last Cohesity Snapshot Playbook

NOTE: Once you create the playbooks, then you need to assign the key vault permissions to specific playbooks mentioned.

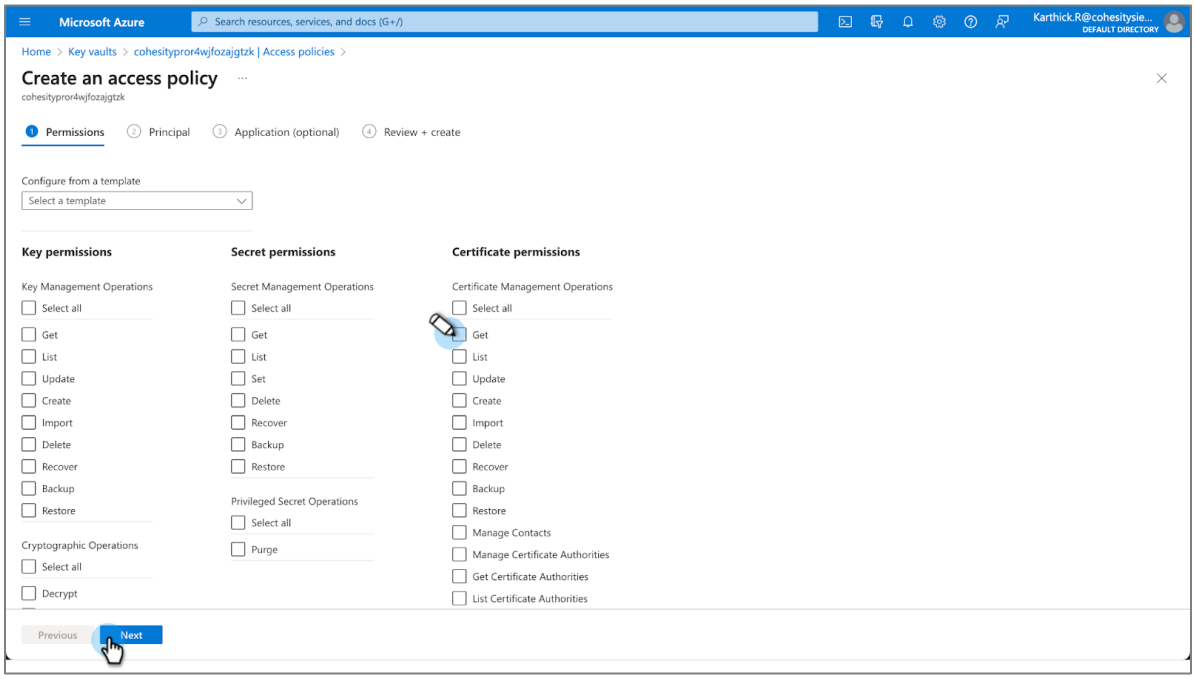
To grant the permissions:

1. Go to Key vaults and choose your **keyvault** that starts from cohesitypro and is followed by a sequence of letters and numbers. For example, cohesityprofnxj32cucakwk.

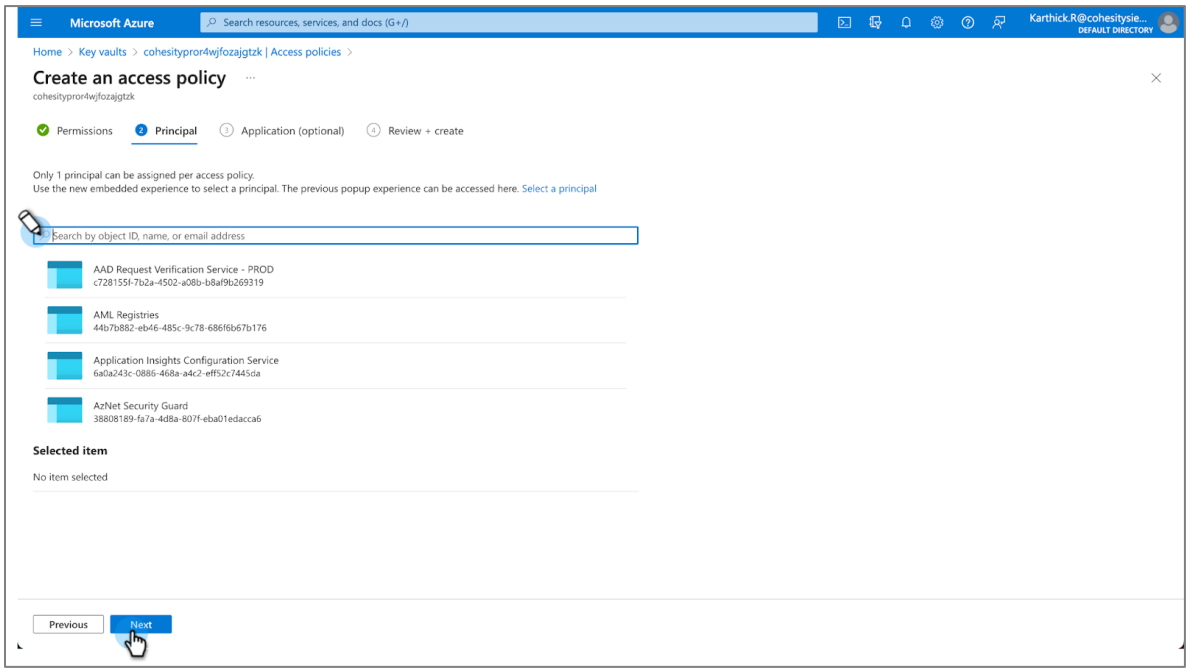
2. On the right pane, select **Access Policies** and click **Create**.



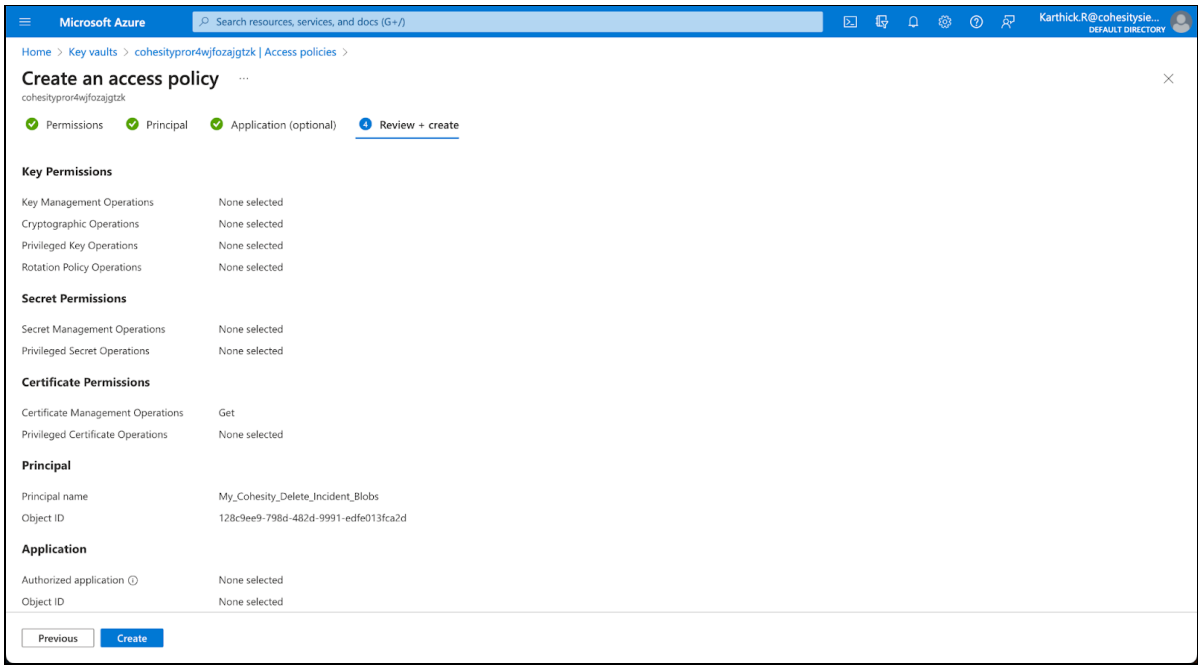
3. Choose **Get permission** in the **Secret Permissions** section and click **Next**.



4. Enter your playbook name and click **Next**.



5. Select **Next** and **Create** to finish granting permissions.



Terminology

Terms	Description
Workspace	The workspace is the top-level resource for all your activities under Azure instance, providing a centralized place to view and manage the artifacts and store events and other information.
Resource group	A container that contains related resources for a particular workspace.
Playbook	A playbook is a collection of these remediation actions that you run from Microsoft Sentinel as a routine, to help automate and orchestrate your threat response.
SIEM	Security Incident and Event Management (SIEM) aggregates and correlates logs from infrastructure such as Cohesity Data Cloud to generate incidents to manage in a centralized location.
SOAR	Security Orchestration, Automation, and Response (SOAR) technology helps coordinate, execute, and automate tasks between various people and tools–all within a single platform to reduce the MTTD and MTTR metrics.

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1.1	July 2024	Republishing
1.0	Aug 2023	First full release

ABOUT COHESITY

Cohesity is a leader in AI-powered data security and management. Aided by an extensive ecosystem of partners, Cohesity makes it easier to protect, manage, and get value from data – across the data center, edge, and cloud. Cohesity helps organizations defend against cybersecurity threats with comprehensive data security and management capabilities, including immutable backup snapshots, AI-based threat detection, monitoring for malicious behavior, and rapid recovery at scale. Cohesity solutions are delivered as a service, self-managed, or provided by a Cohesity-powered partner. Cohesity is headquartered in San Jose, CA, and is trusted by the world's largest enterprises, including six of the Fortune 10 and 44 of the Fortune 100.

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