

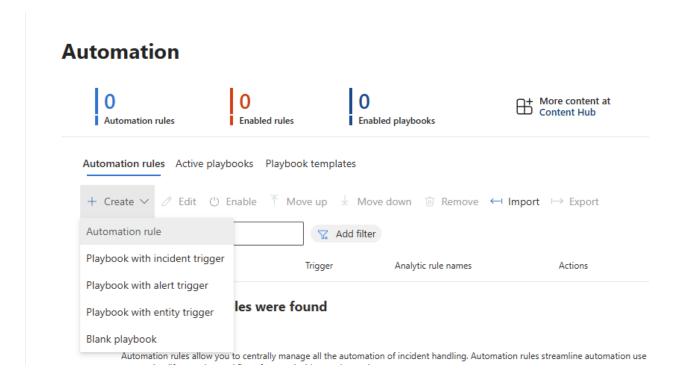
## **Playbooks and Logic Apps in MS Sentinel**

Adrian Cortez

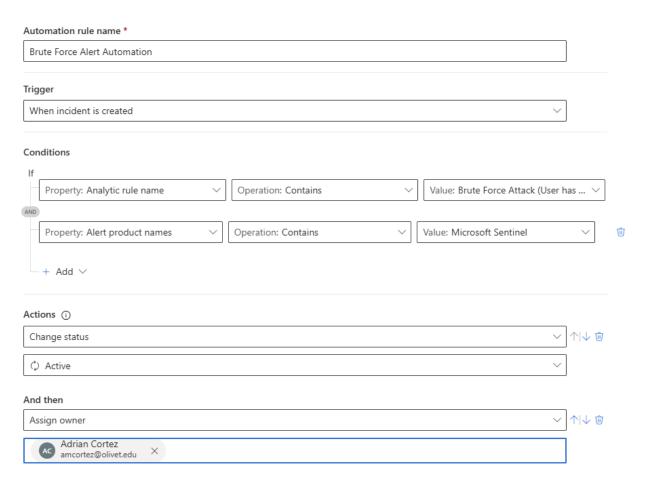
#### **Overview**

In Microsoft Sentinel, a playbook is an automated response plan for security incidents. It's built on top of Azure Logic Apps and defines what should happen when a certain alert or trigger occurs. Logic Apps is the underlying Azure service used to create automated workflows. This is a no-code platform where you can drag and drop connectors, steps, and conditions. Logic apps can be used to automate any workflow, not just for security. Playbooks are necessary for SOC analysts because they turn manual, repetitive, and timesensitive tasks into fast, consistent, and automated workflows. This reduces human error and speeds up incident response.

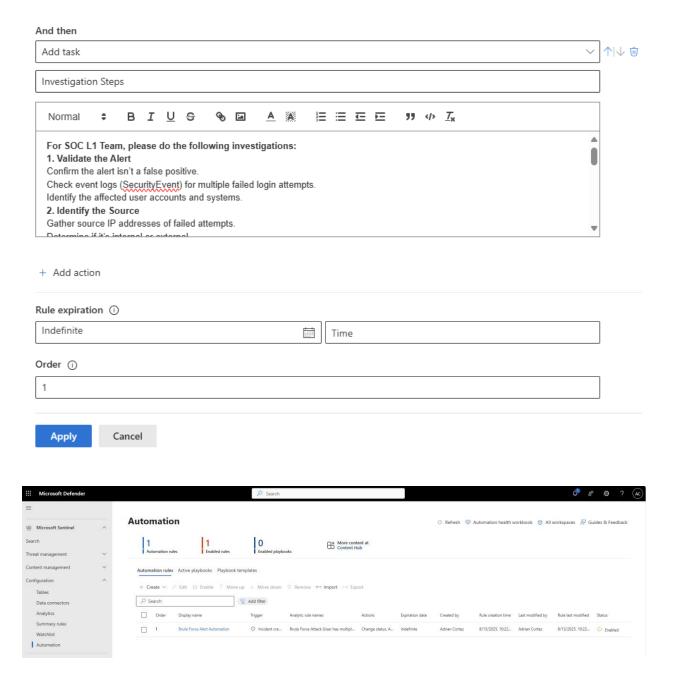
#### **Create an Automation Rule**



#### Create new automation rule



 $\times$ 

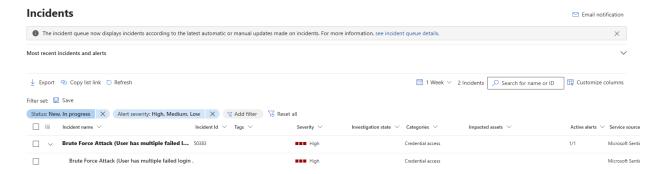


Manually brute force the VM and check whether our automation is working properly.

Before Brute Force Attempt:



#### After Brute Force Attempt

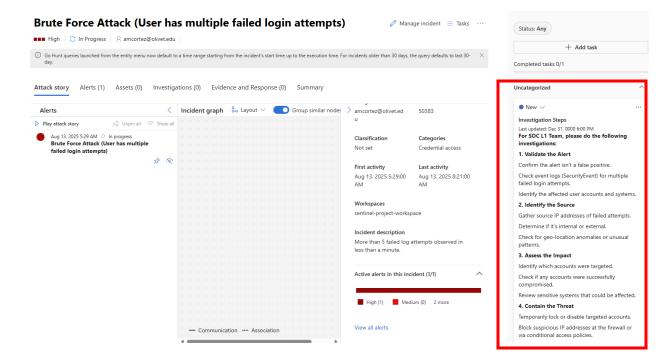


Observe the automation rules take action (Incident gets assigned, status changed, new task with investigation instructions)



# Brute Force Attack (User has multiple

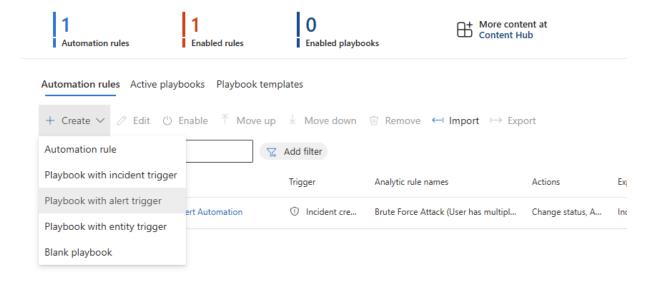
2	failed login attempts)
	■■■ High   ■ Unknown   ○ In progress
0	Manage alert
Brut mult	dent Incident severity  The Force Attack (User has tiple failed login mpts)  Incident severity  High
Ac <b>1</b> /	tive alerts Devices Users Mailboxes Apps O 0 0
Comments & history	
Ad	ld a new comment
	Save
	Automation rule-Brute Force Alert Automation Alert was assigned to amcortez@olivet.edu. Aug 13, 2025 10:34:45 AM
	Automation rule-Brute Force Alert Automation Status changed from 'New' to 'In progress'. Aug 13, 2025 10:34:40 AM
	Automation Alert linked to incident #50383 Aug 13, 2025 10:32:18 AM



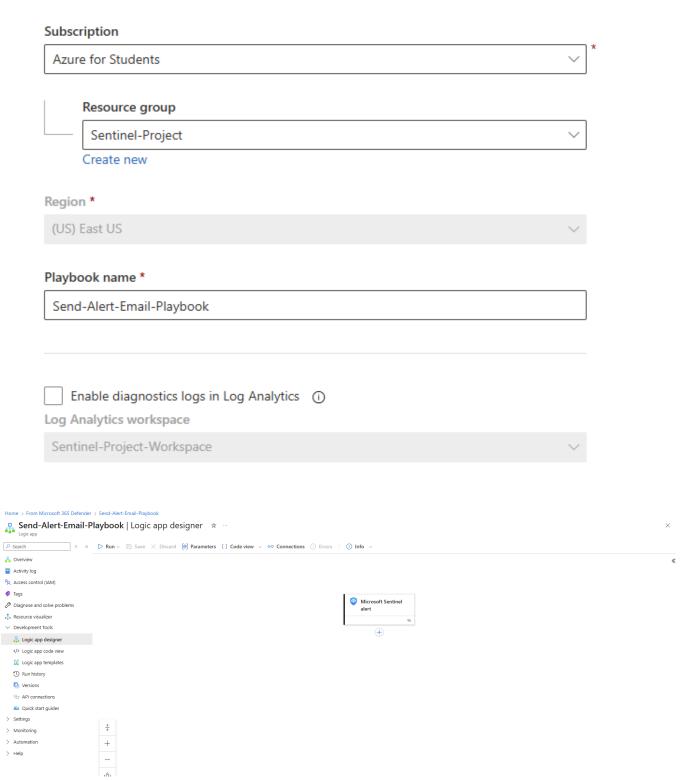
### **Creating a Playbook in MS Sentinel**

Now we will build a basic playbook in MS Sentinel that automatically sends an email notification.

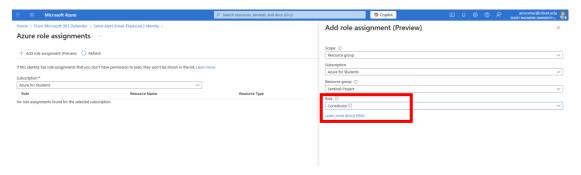
#### **Automation**



Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

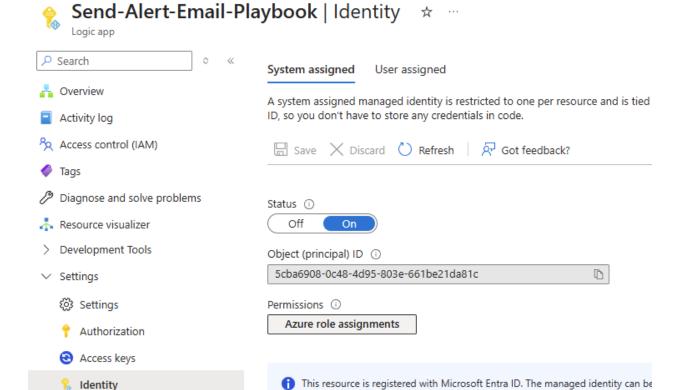


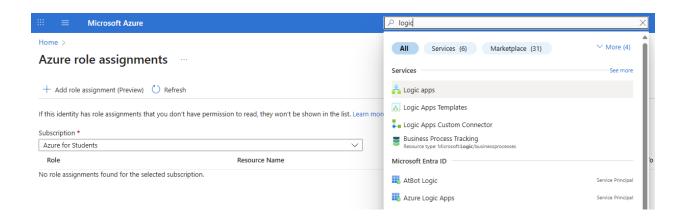
Make sure to add Contributor as a role.

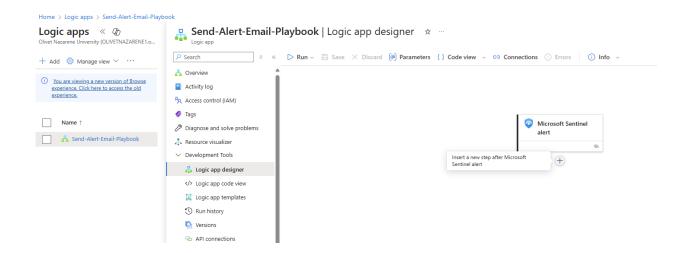


Home > From Microsoft 365 Defender > Send-Alert-Email-Playbook

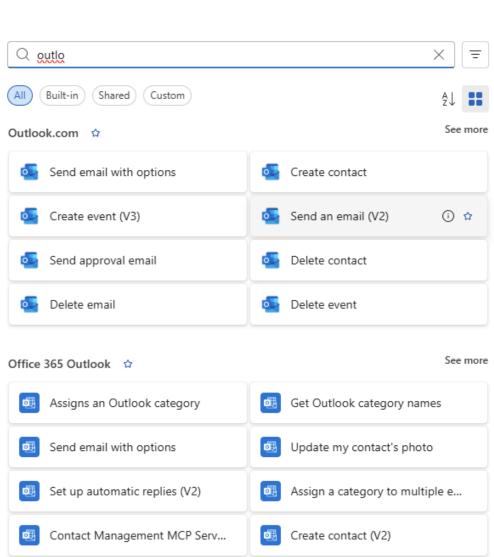
Properties



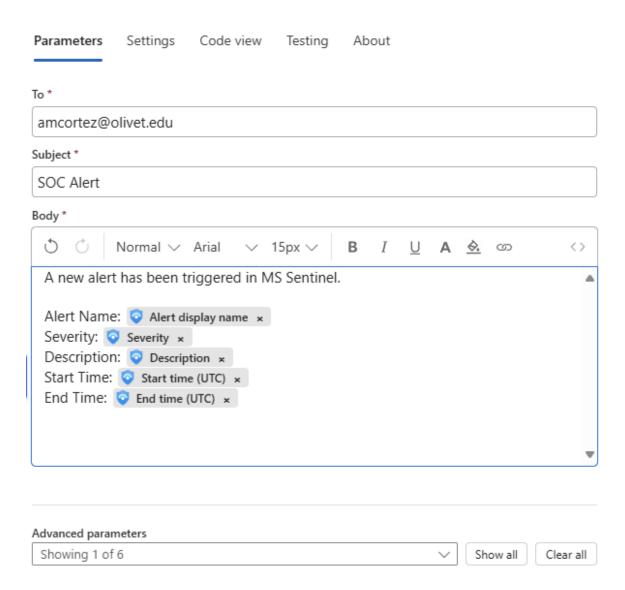




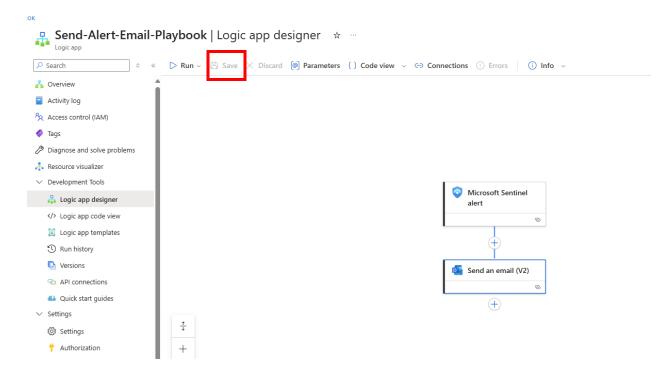
## Add an action $\times$





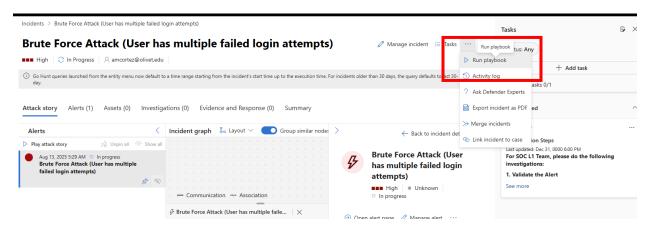


Make sure to save your logic app design

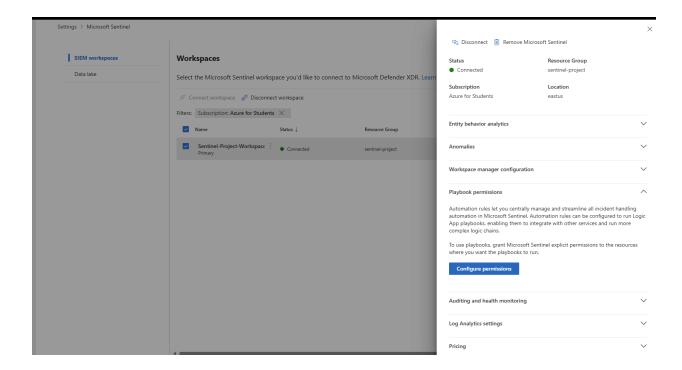


#### **Test the Playbook**

I will use the previous generated incident to run the playbook manually

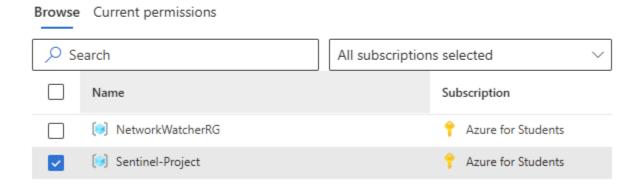


We will run into an error, because MS Sentinel doesn't give access to the resource group for running the playbook by default. So, we need to give access to the resource group for running the playbook.



## **Playbook permissions**

Choose the resource groups that contain the playbooks you want to give Microsoft Sentinel permissions to run



Now we can run the playbook without error.



