

Building a mini-Security operations center (SOC) environment by deploying our own Security information and event management (SIEM) that monitors and generates alerts for our devices, on Azure

Setting up a threat intelligence feed for our SIEM, that sends us commonly seen and newly found compromise indicators whilst Monitoring RDP events

Creating the virtual machine

After logging in to Azure, We set up our first Virtual Machine
We then create a RESOURCE GROUP, name our virtual machine

Specify the Operating system we're using to be windows pro, for familiarity, and ease of use in a Microsoft based environment

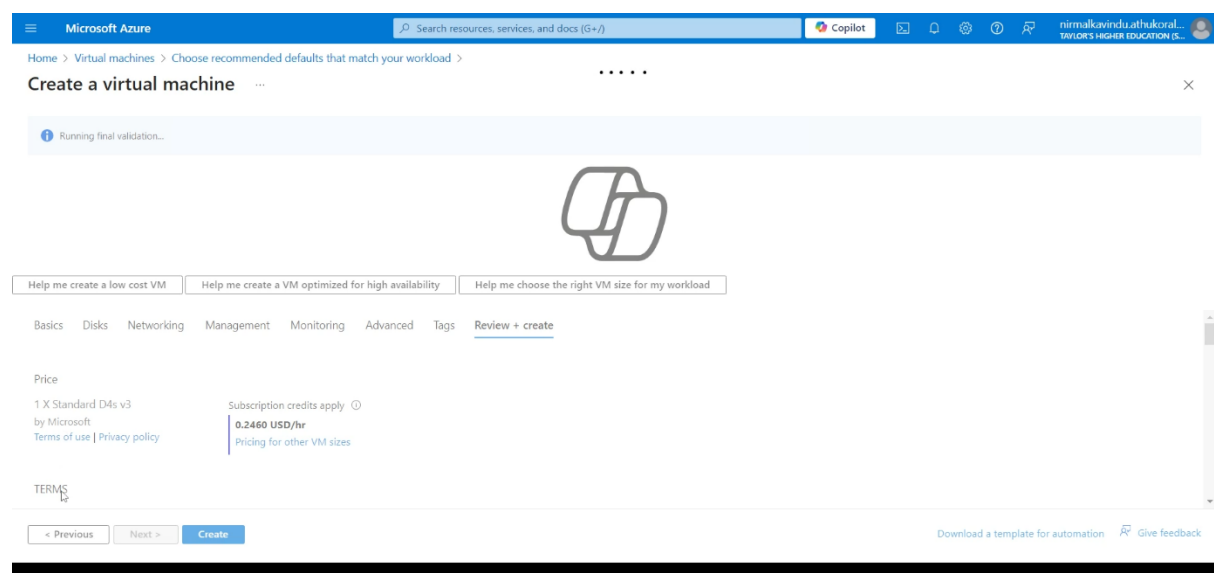


Figure 1. Creating the Virtual Machine

Deploying Sentinel

While that loads, we turn our attention to Deploying sentinel

We first add it to the resource group we created earlier

Give it its name

And importantly, make sure we set it up in same region as the virtual machine

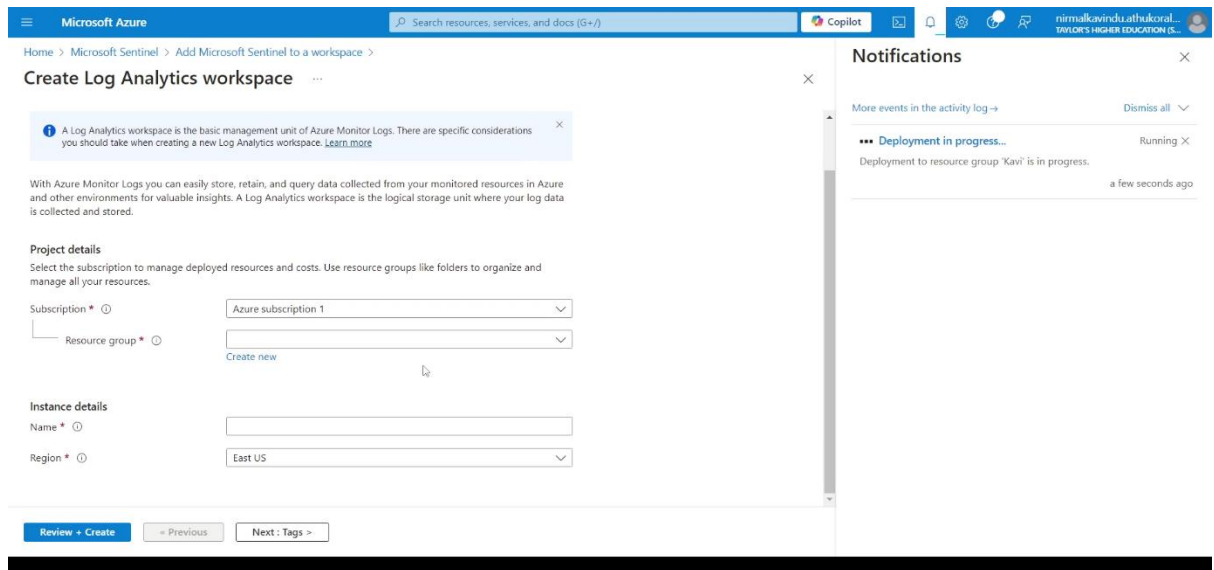


Figure 2. Creating the log analytics workspace using Sentinel

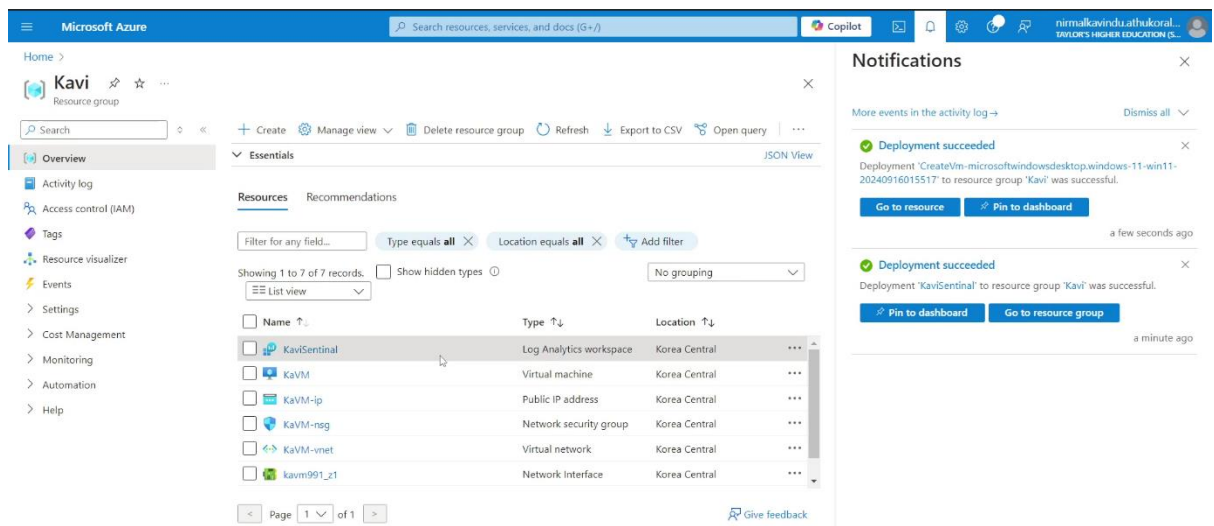


Figure 3. The GUI of our overview

Data Connectors

Add the virtual machines event logs to the Log analytics workspace which then sends it to sentinel
 Then we set up a data connector to enable connections into the broader security ecosystem.
 The content hub, contains established connectors

- install windows security events (azure monitor agent)

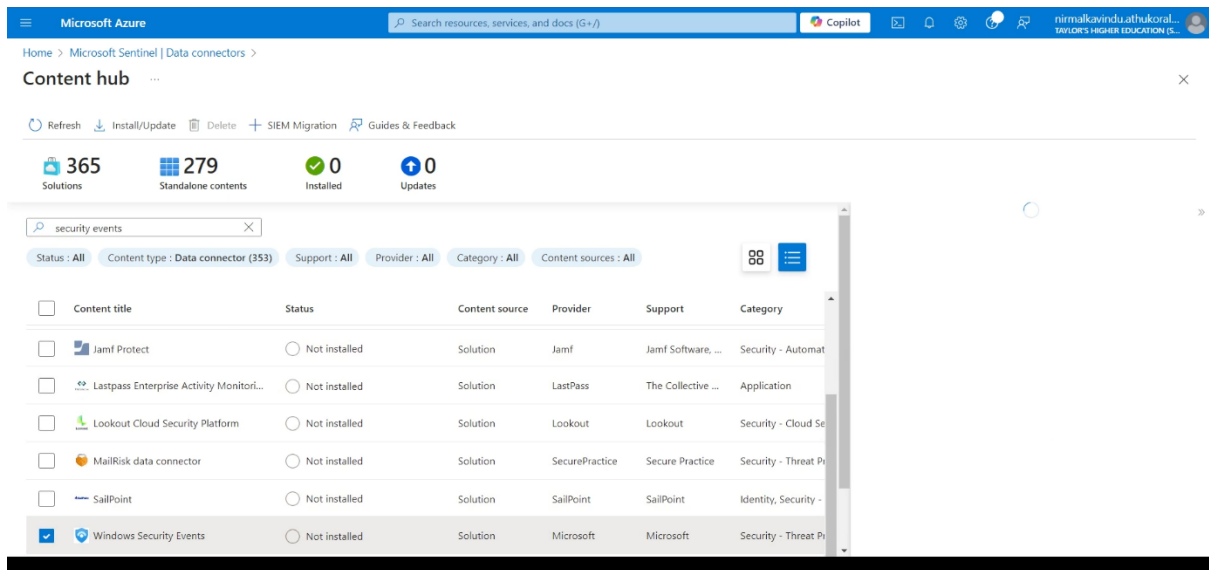


Figure 4. The content hub with established connectors

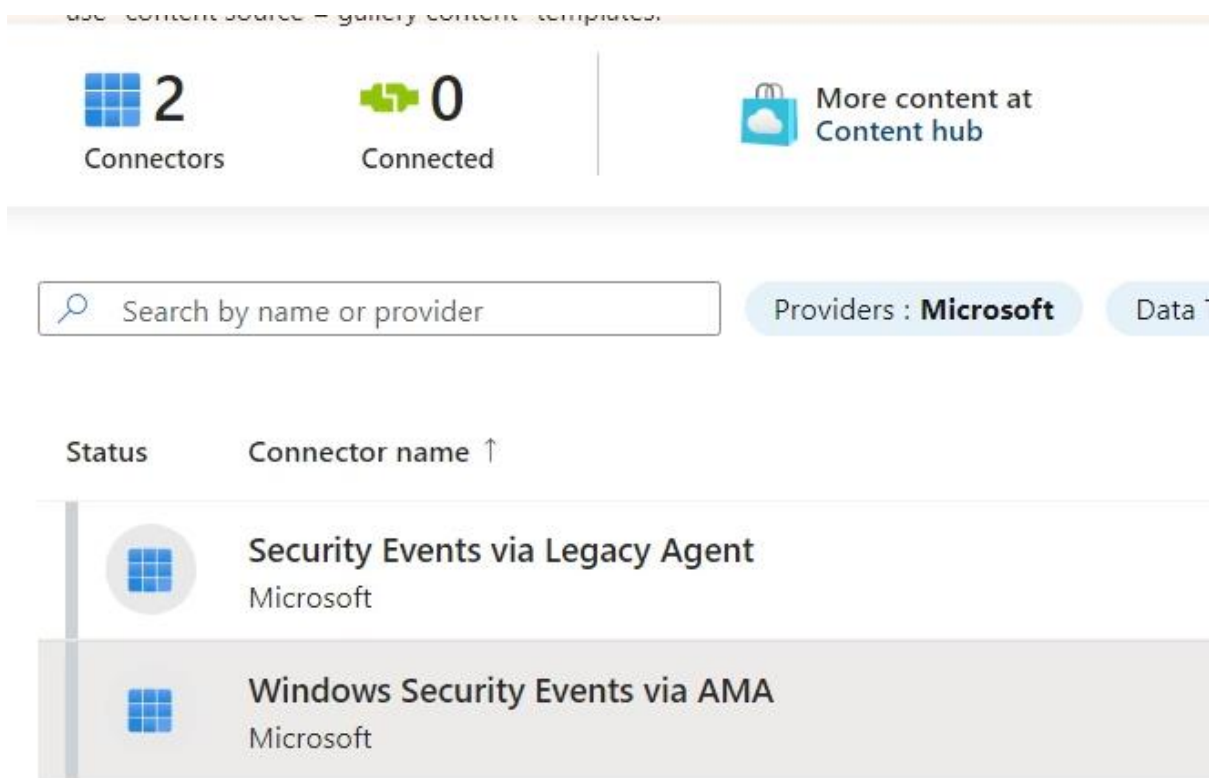


Figure 5. The connectors when we install "Windows Security Events"

Setting up data collection rules

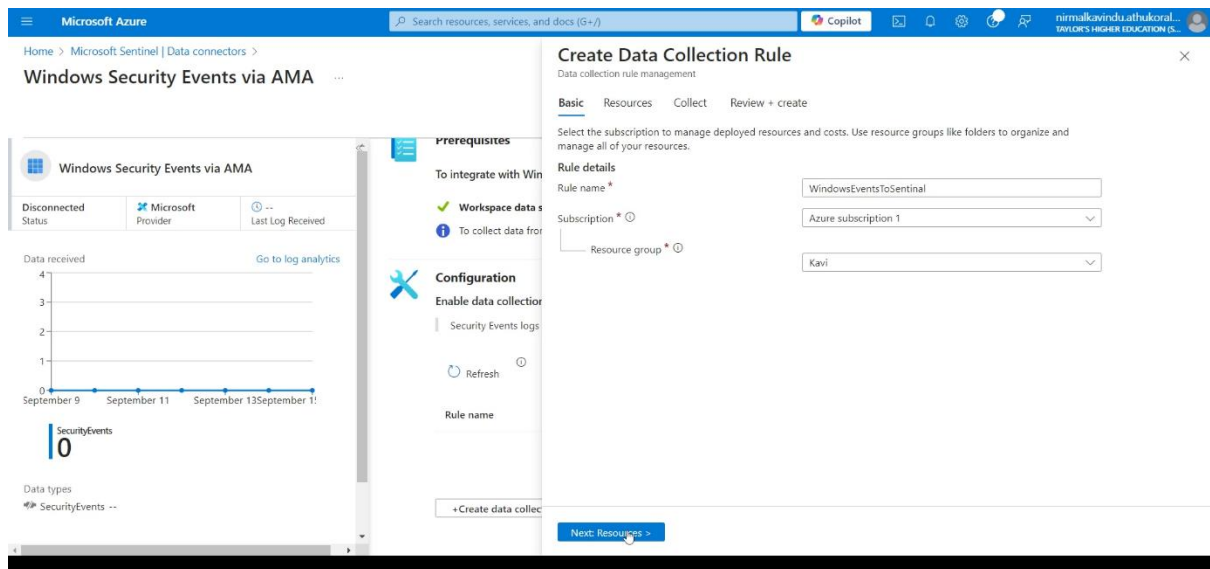


Figure 6. Creating the data collection rule

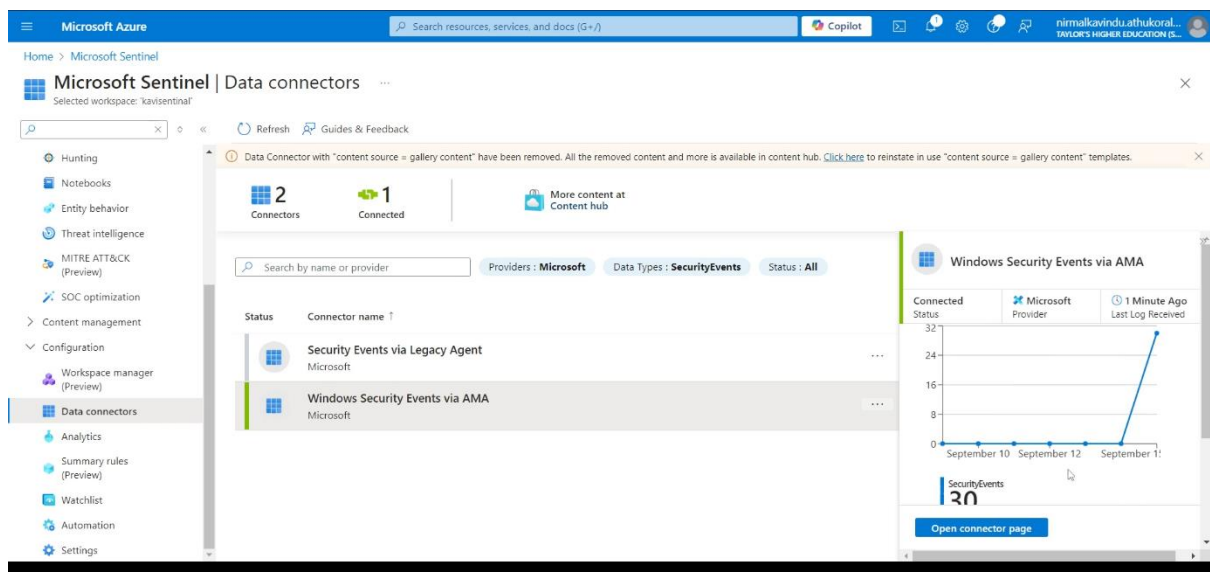


Figure 7. Overview of the Data connectors page

Testing our rules and using the wizard

We select our virtual machine, for all security events and now u can see logs being collected

Creating a rule that checks for successful sign in's via rdp

-Creating sentinel rule using wizard

-testing query

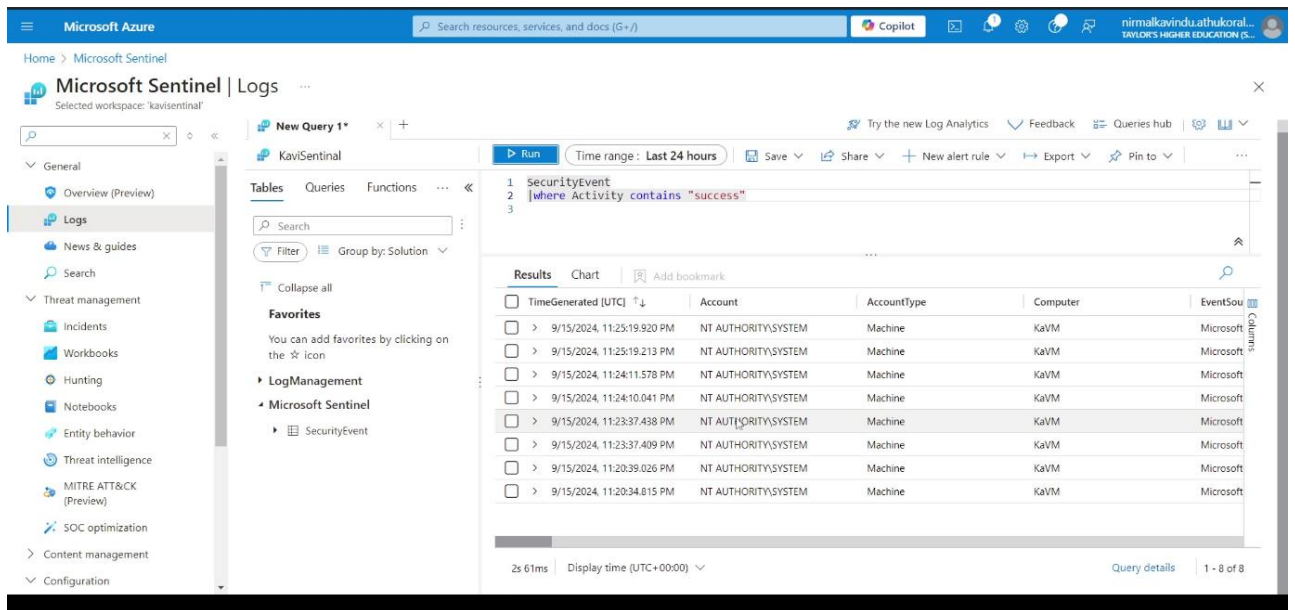


Figure 8. Testing a security event query

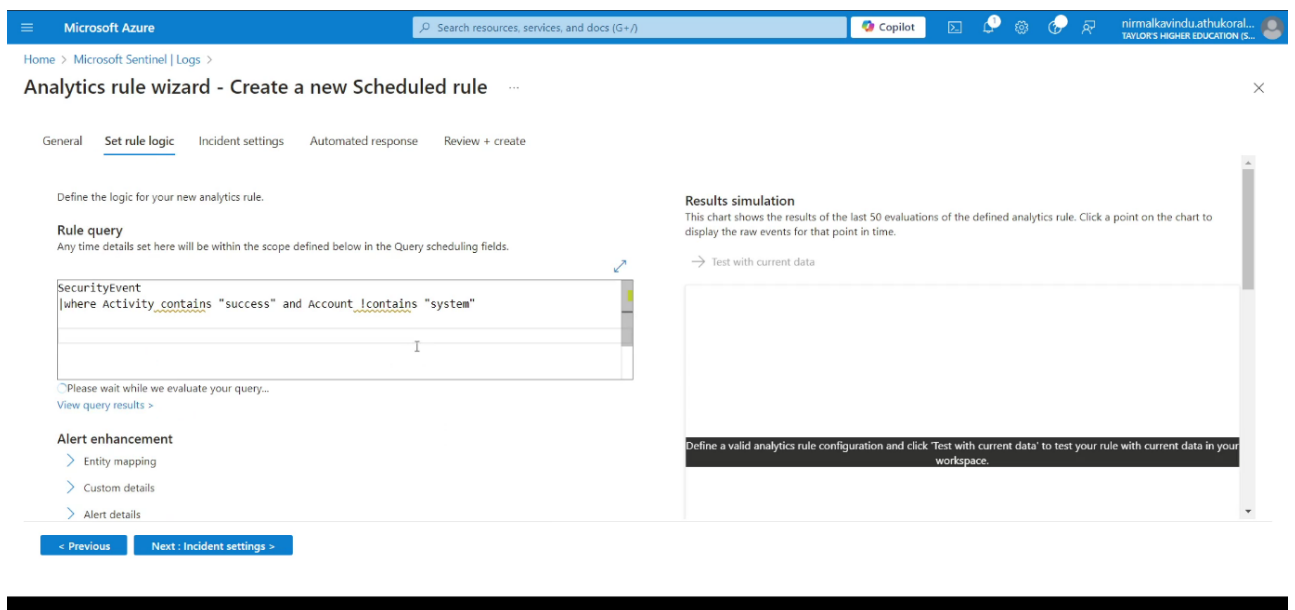


Figure 9. Using the wizard to create a new rule

Overview and testing

In analytics page, we see the rules that we have created

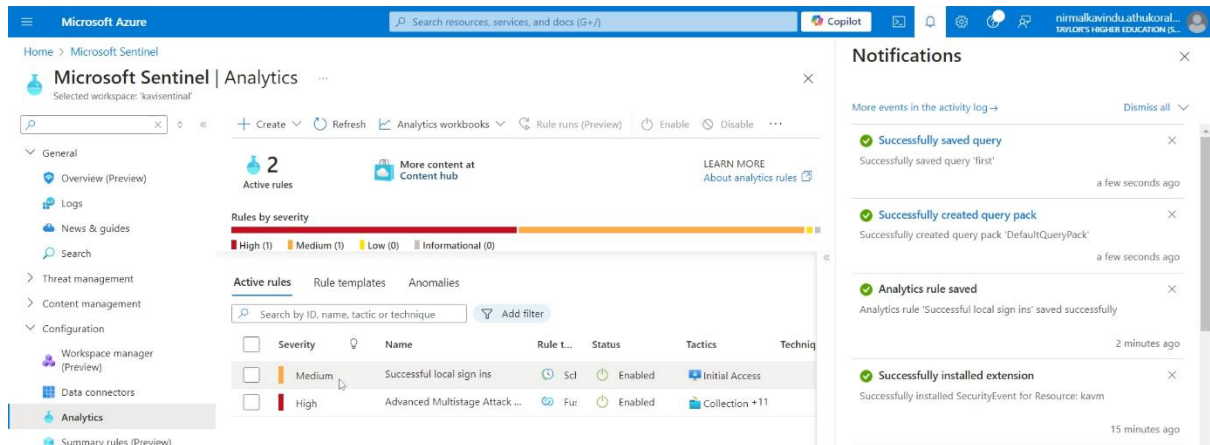


Figure 10. The Analytics page after we have created our rules, an overview.

This rule runs approximately every 5 mins

So, if I sign in after 5 mins it will give me an alert for a sign in

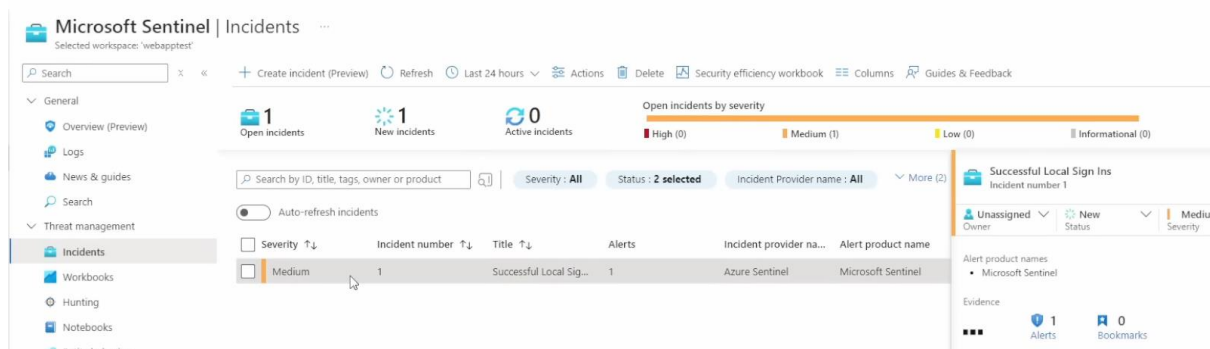


Figure 11. The Rule has run successfully, sending me an alert after I have logged in.