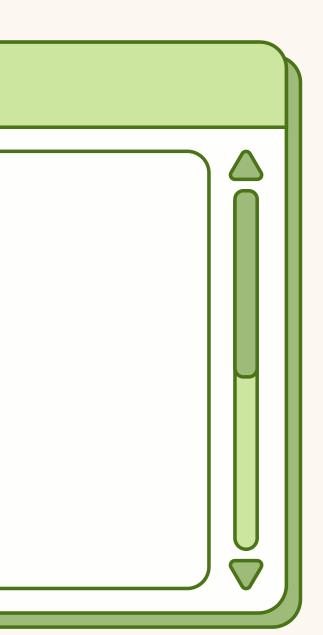
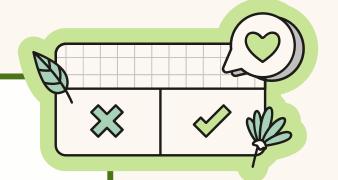


Tanish Rathore





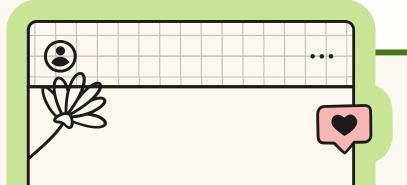
INTRODUCTION

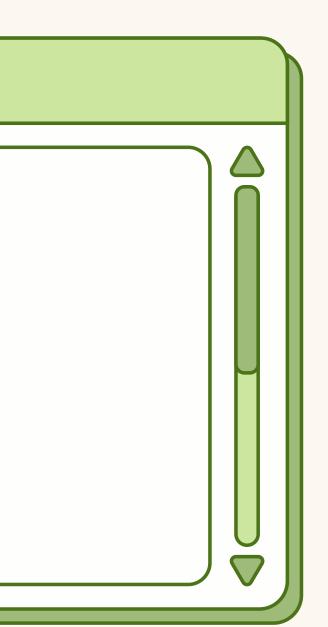
Security Information and Event Management (SIEM) solutions play a crucial role in monitoring and securing IT infrastructure.

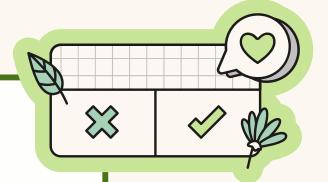
This project focuses on deploying Microsoft Sentinel in Microsoft Azure to monitor successful login attempts on a Virtual Machine (VM).

By integrating the VM with Sentinel, security logs can be collected, analyzed, and monitored for real-time threat detection and investigation.





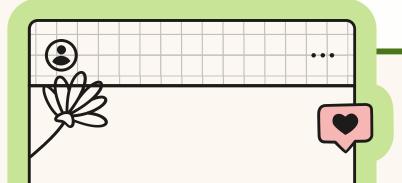


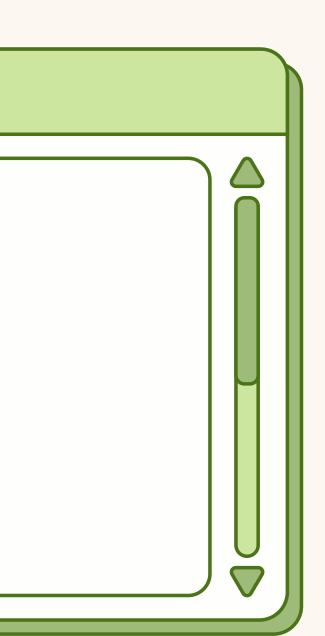


PROJECT OBJECTIVES

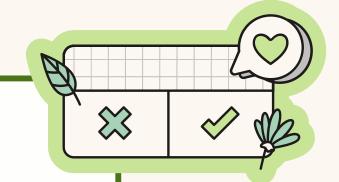
- Deploy and configure Microsoft Sentinel as a SIEM solution.
- Set up an Azure Virtual Machine (VM) for monitoring.
- Create a Log Analytics workspace and integrate Sentinel.
- Define a data collection rule to track successful login events.
- Generate and analyze security alerts based on log activity.
- Enhance security visibility using Sentinel's monitoring tools.











METHODOLOGY

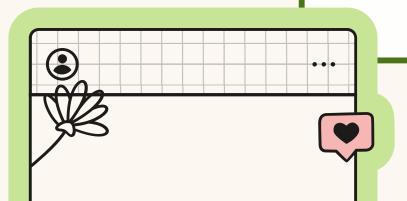
Step |: Azure Account Registration

 Created an Azure account and accessed the Azure Portal.

Step 2: Virtual Machine (VM) Deployment

- Configured a Windows VM in Azure.
- Set up appropriate networking and firewall rules.

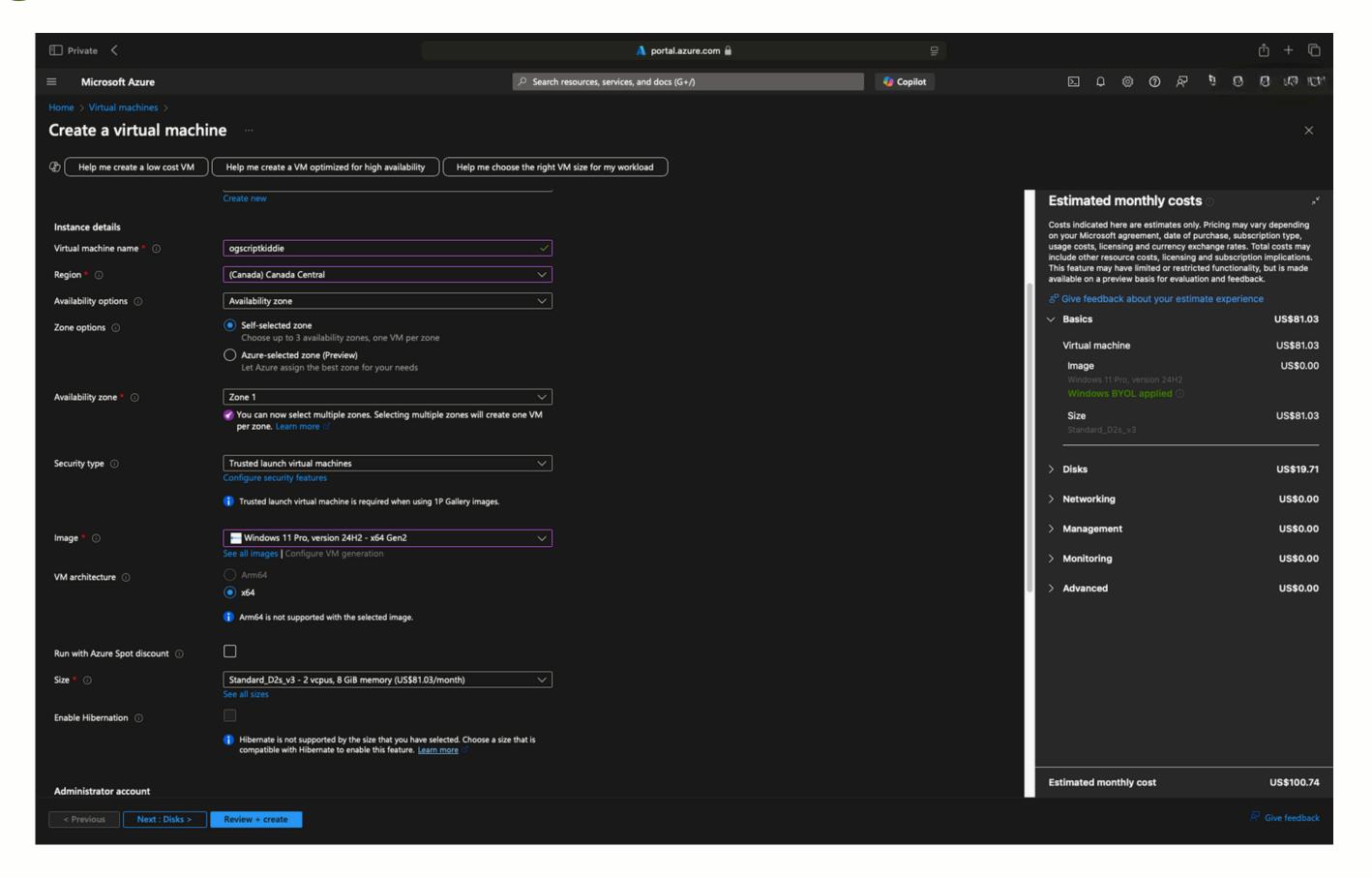


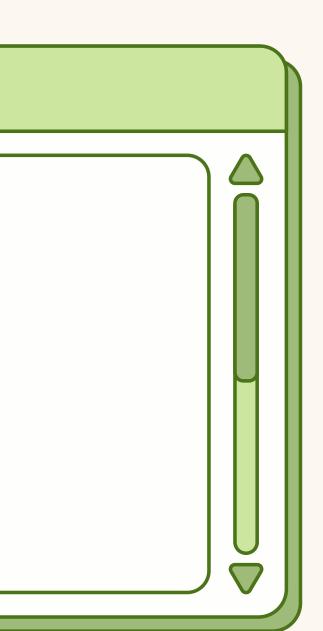




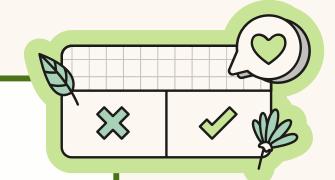


STEP 1 AND 2 SCREENSHOTS









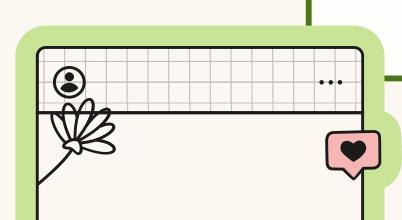
METHODOLOGY(CONTD.)

Step 3: Microsoft Sentinel Setup

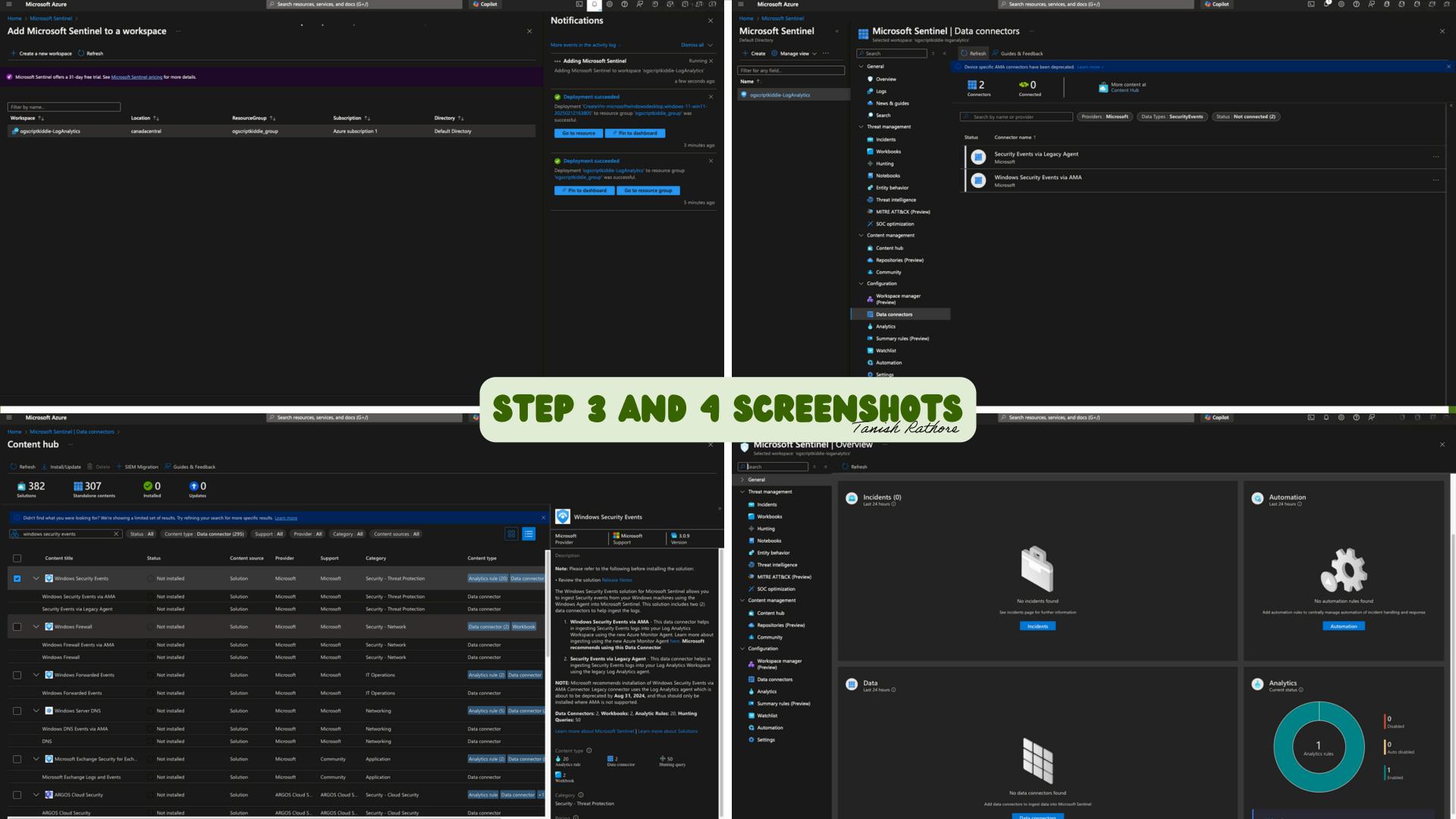
- Created a Sentinel workspace for security log collection.
- Enabled log analytics to process incoming security data.

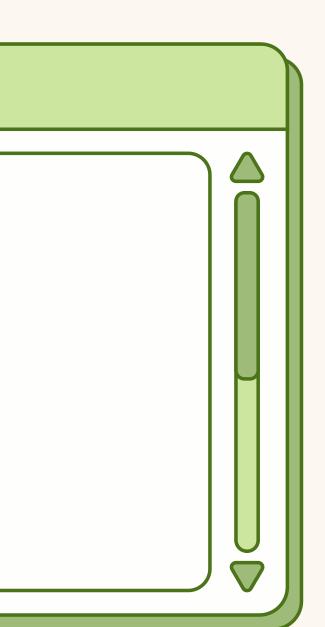
Step 4: Connecting VM to Sentinel

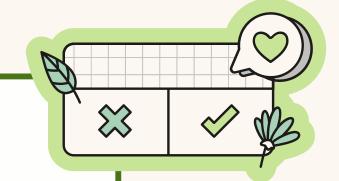
- Installed and configured Azure Monitor Agent (AMA) on the VM.
- Linked the VM's security logs to the Sentinel workspace.













METHODOLOGY(CONTD.)

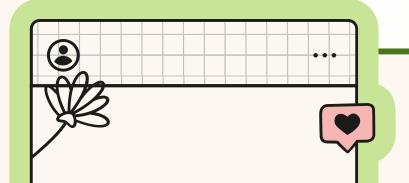
Step 5: Creating Data Collection Rules

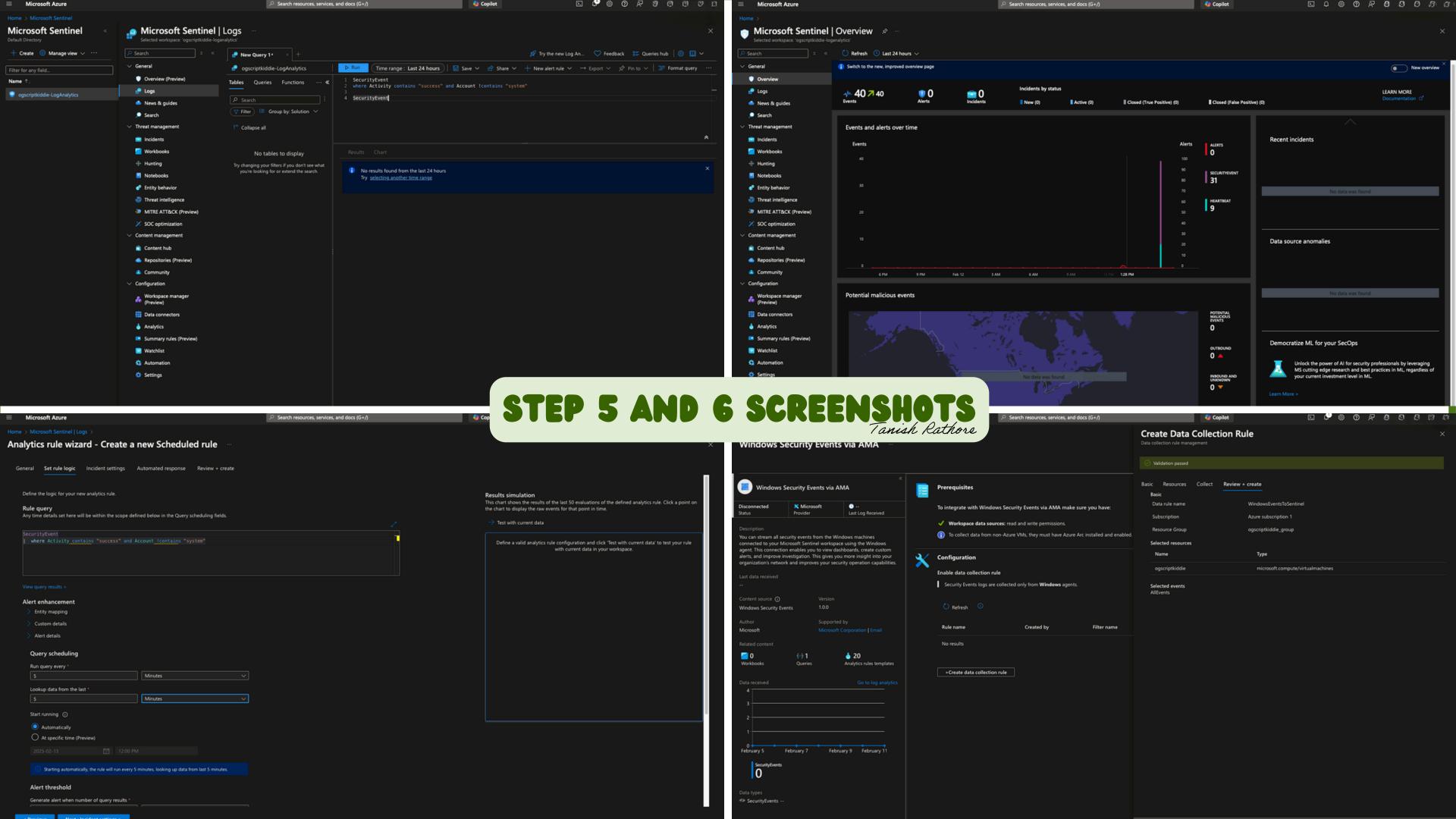
- Defined a log rule to capture successful login attempts.
- Configured alerts to trigger notifications on login events.

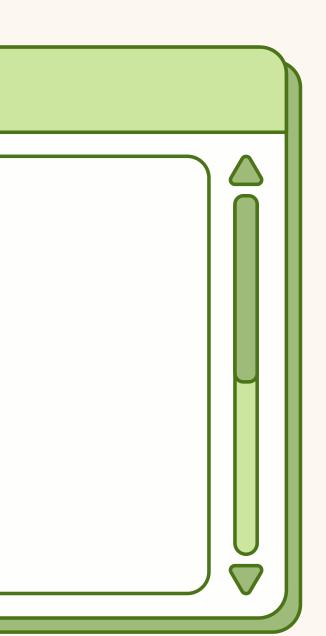
Step 6: Monitoring and Alert Investigation

- Used Microsoft Sentinel Dashboards to track login attempts.
- Investigated security logs and alerts to detect anomalies.





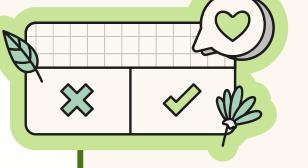




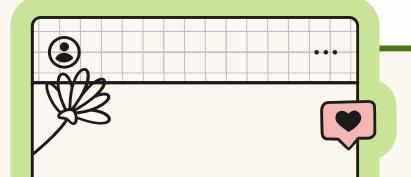


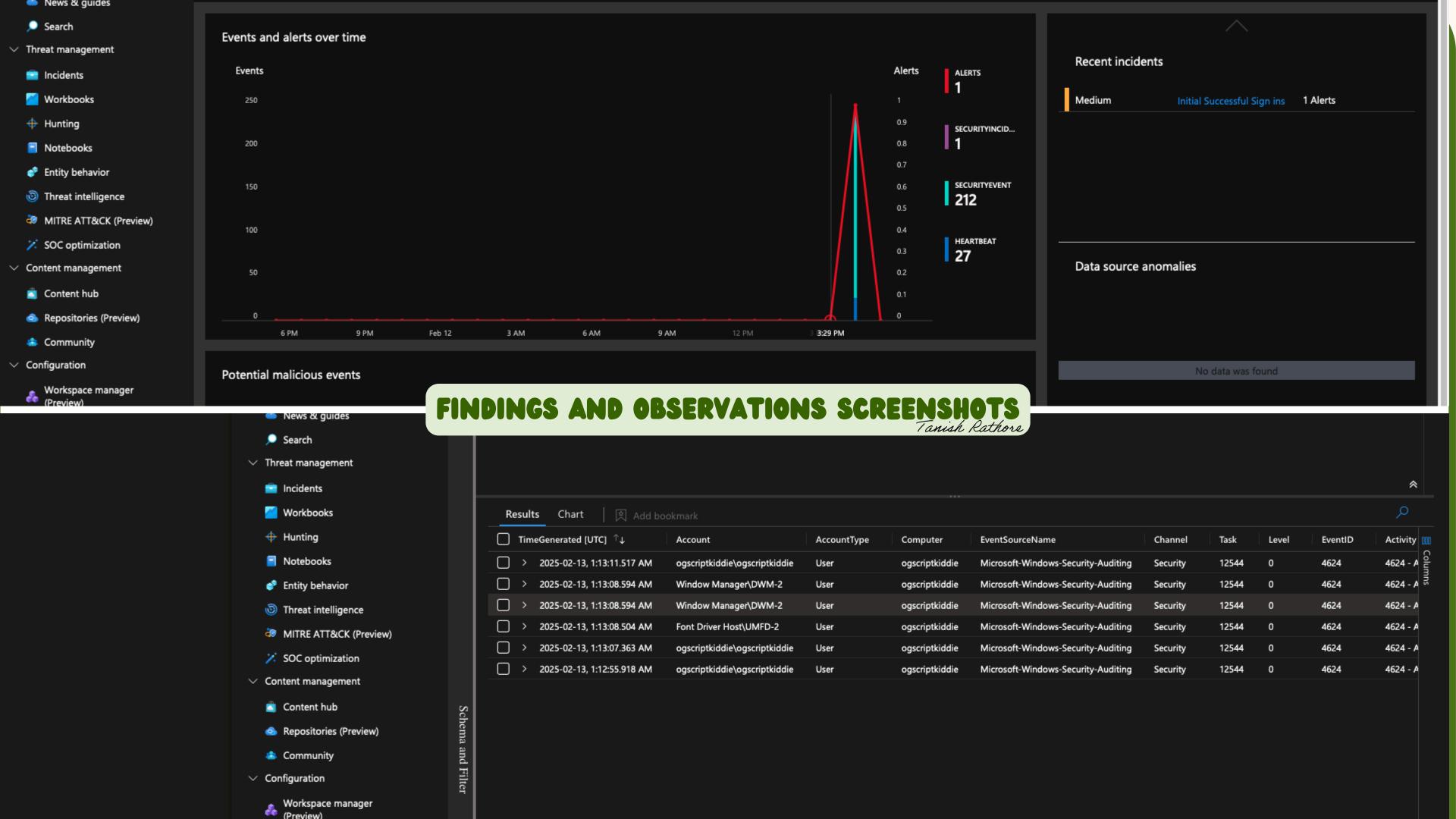
FINDINGS & OBSERVATIONS

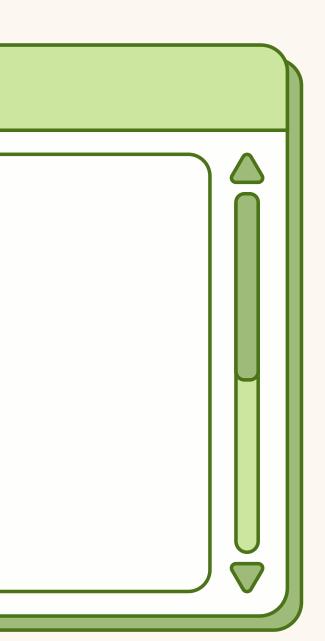
- Real-time alerting: Successfully set up Sentinel alerts for login attempts.
- Enhanced visibility: Identified security events within the VM log stream.
- Threat detection capability: Enabled proactive security monitoring.

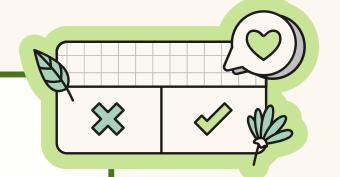










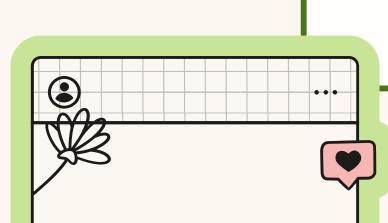


CONCLUSION

This project provided valuable hands-on experience with cloud-based security monitoring using Microsoft Sentinel.

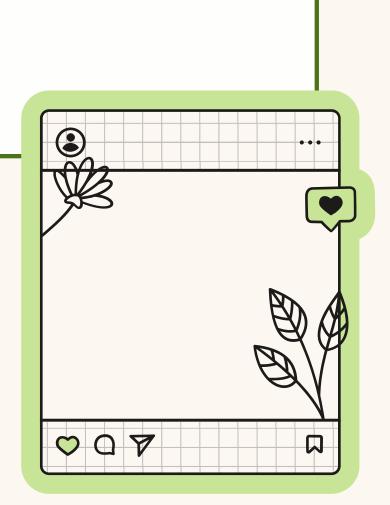
By deploying a SIEM, configuring log analytics, and setting up alert rules, I gained real-world cybersecurity skillsapplicable to SOC (Security Operations Center) environments.

This knowledge strengthens my ability to work with enterprise security monitoring and threat detection in cloud environments.

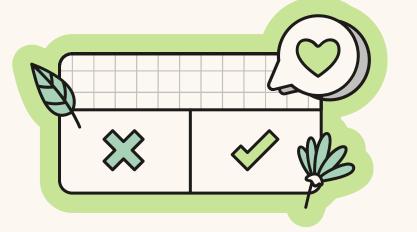














Tanish Rathore