TASK-02

Intern Name: Pulugu Sirivarshini

Project Title: Security Log Monitoring & Threat Analysis using Splunk

Tool Used: Splunk Free Trial

Log Source: sample soc logs.csv (Simulated Security Event Logs)

Objective

To simulate the activities of a SOC analyst by monitoring logs, identifying threats, analyzing patterns, and generating insights using SIEM (Splunk). The goal was to detect suspicious events such as failed login attempts, unauthorized access, or malware alerts, and respond effectively.

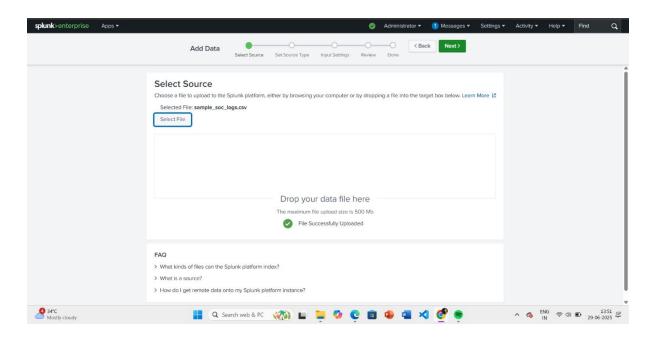
Tools & Techniques Applied

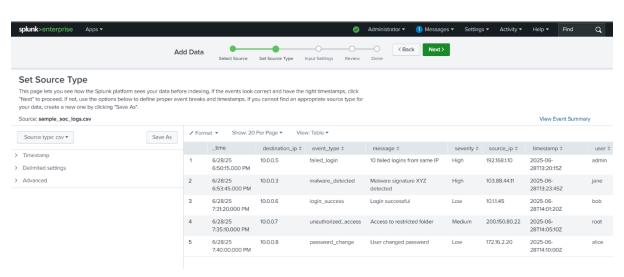
- Log ingestion using Splunk's upload function
- Filtering and searching using SPL
- Pattern detection using stats, top, and event filtering
- Severity-based event triage

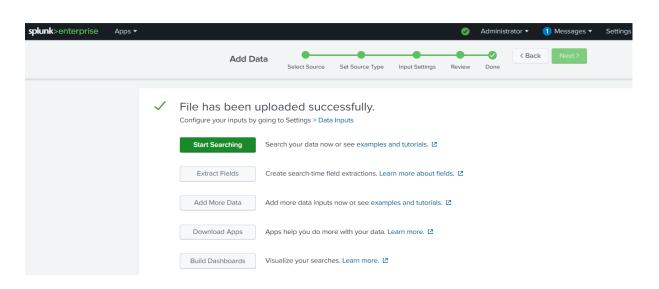
Open splunk and Login using your admin username and password

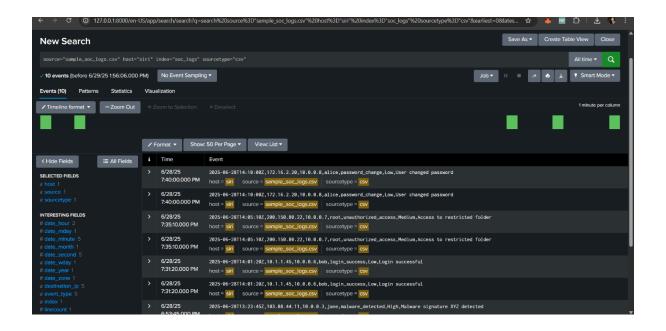
Log Ingestion and Index Creation

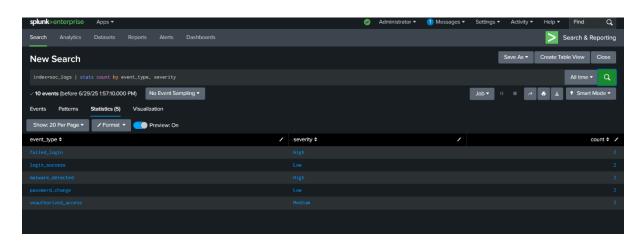
- 1. Go to "Add Data" → Choose "Upload"
- 2. Select File: Upload sample_soc_logs.csv
- 3. Source Type: Select "CSV"
- 4. Create Index: Name it soc_logs
- 5. Click Next \rightarrow Review \rightarrow Submit

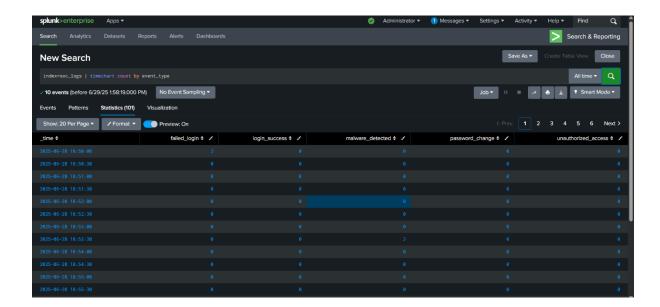


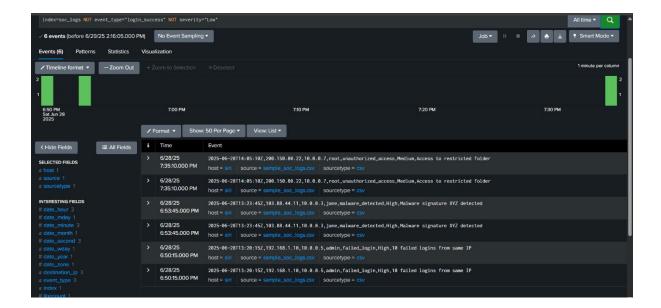












Conclusion:

In conclusion, by uploading and analyzing the simulated log file (sample_soc_logs.csv) in Splunk, I was able to apply key SOC analyst skills such as threat detection, event classification, and incident reporting. Using a custom index (soc_logs) and relevant SPL queries, I successfully identified critical security events including repeated failed login attempts, malware detections, and unauthorized access incidents.