ICS344 Information security

Term Project

Visual Analysis with a SIEM Dashboard

Phase#2

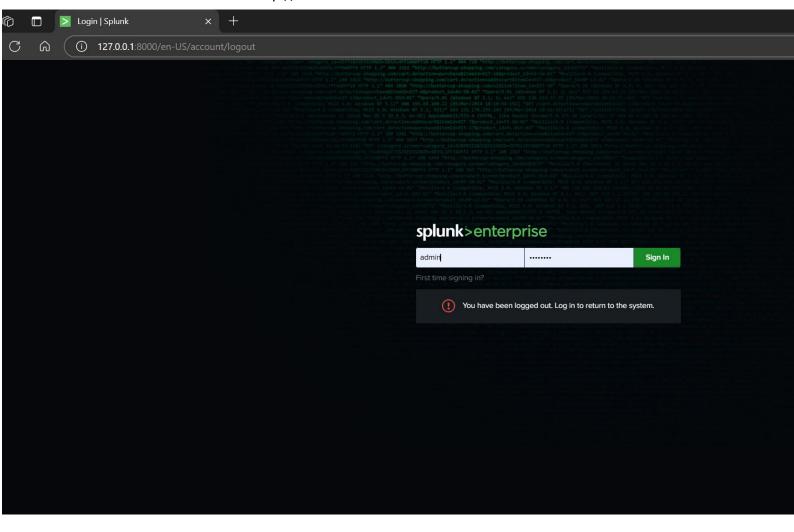
Team

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Phase 2: SIEM Dashboard & Analysis

2.1 Splunk Setup

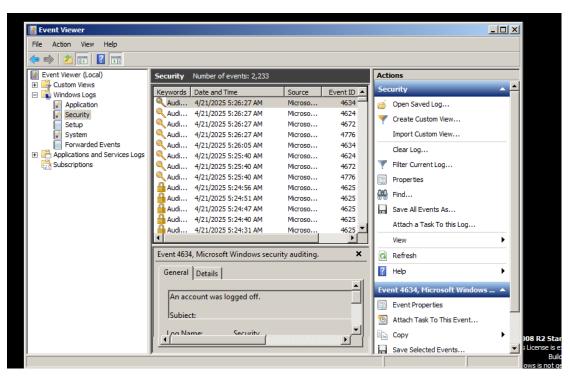
- Installed Splunk Enterprise on Windows host machine (instead of Kali, due to stability issues on Kali)
- Accessed via http://localhost:8000

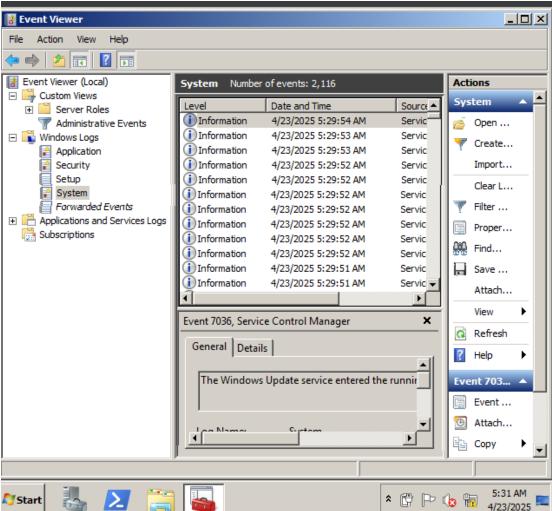


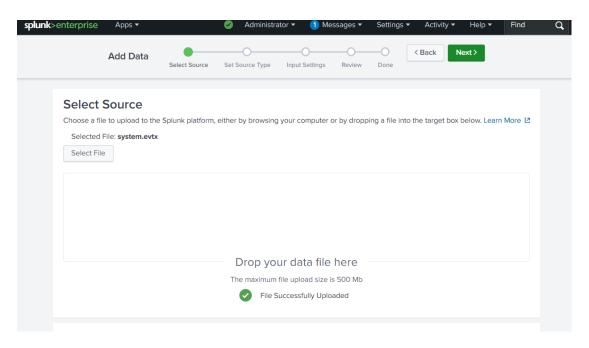
2.2 Log Collection from Victim

- Exported the following .evtx logs from Metasploitable3:
 - security.evtx
 - o system.evtx
- Imported both logs into Splunk using the Add Data wizard
- Assigned host as Metasploitable3, sourcetype as WinEventLog:Security or WinEventLog:System

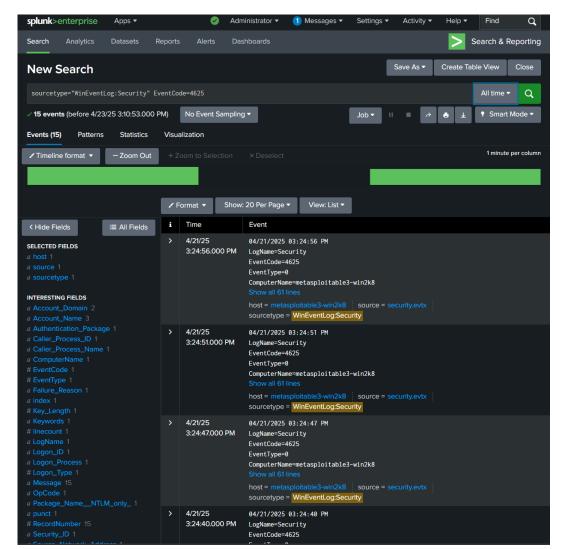
• Screenshots:

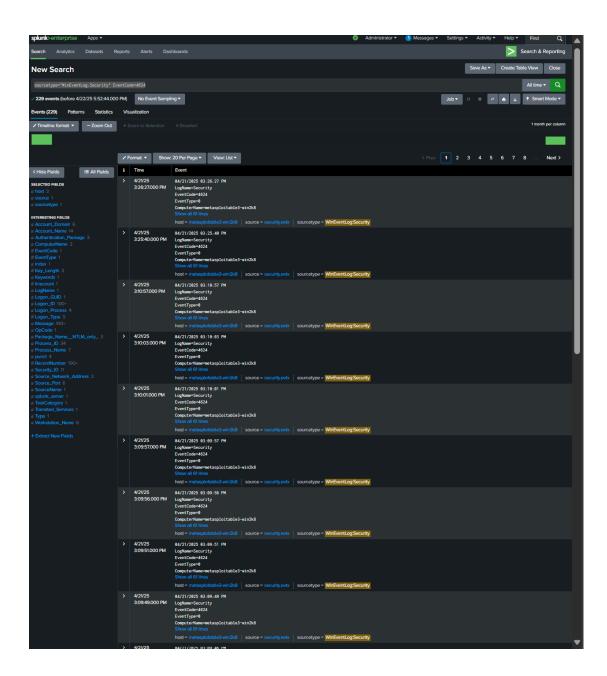


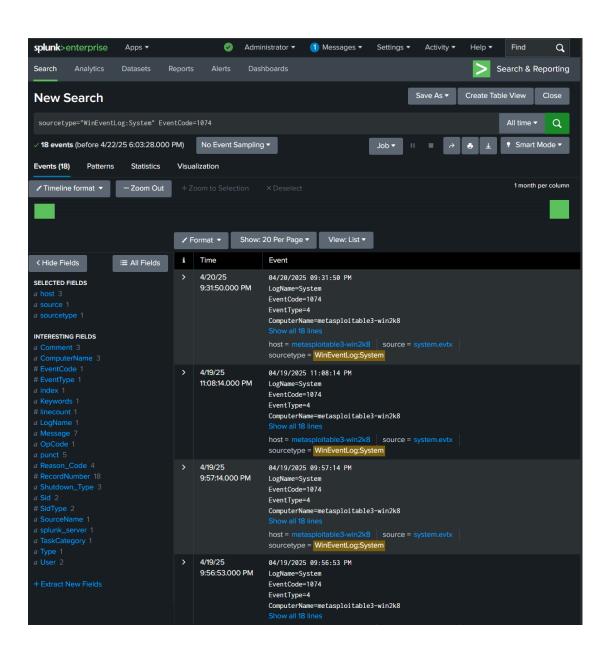


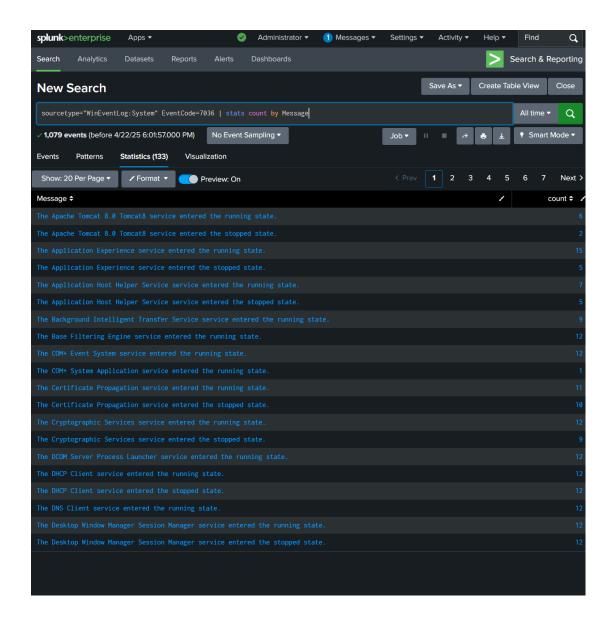


- Searched for Event ID 4624 (successful logins) and 4625 (failed logins):
- sourcetype="WinEventLog:Security" EventCode=4624
- sourcetype="WinEventLog:Security" EventCode=4625
- Searched system logs for Event ID 7036 (service start):



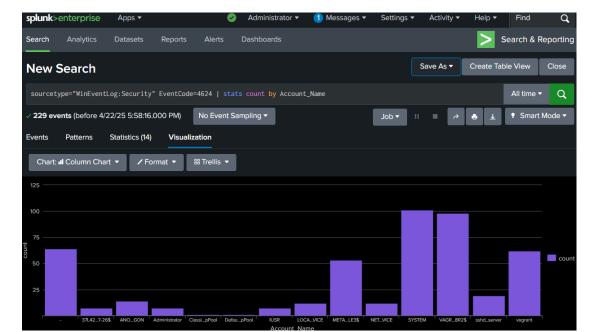


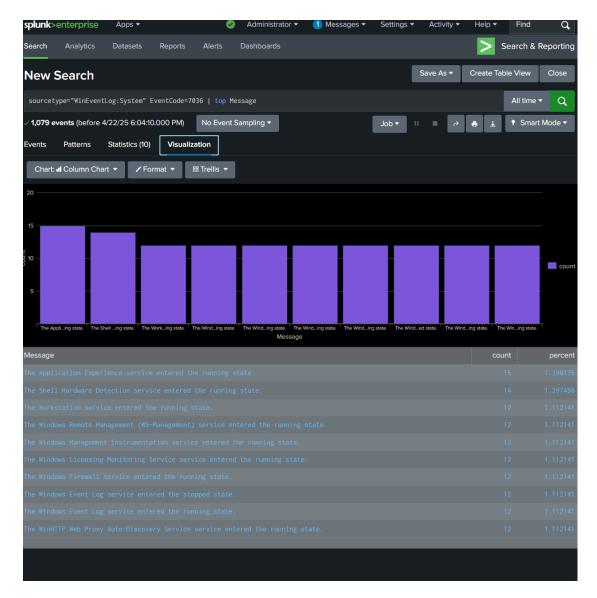




2.4 Dashboard Creation

- · Created a bar chart
- Visuals:





I could not collect logs from the Kali attacker machine due to internal issues with Kali's file system and log access.

Notes:

- Installed and configured Splunk on host machine
- Collected logs from Metasploitable3 (Security and System logs)
- Successfully imported into Splunk using Upload method
- Used Search & Reporting to detect login attempts and system behavior
- Created dashboard panels to show:
 - User login activity (Event ID 4624)
 - Failed logins (4625)

- Windows service starts (7036)
- Could not include attacker logs due to Kali errors