Blue Team: Summary of Operations

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Network Topology

The following machines were identified on the network:

- Gateway
- Windows 10 Pro
- Starting point/entry point
- 192.168.1.1

- ELK Server

- Linux
- Used for Kibana
- 192.168.1.100

- Capstone

- Linux
- The machine being targeted
- 192.168.1.105

- Kali Linux

- Linux
- Used for penetration testing
- 192.168.1.90

Cateway 192.168.1.10 Capstone 192.168.1.105 ELK Server 192.168.1.100 Kibana 192.168.1.100

Description of Targets

The target of this attack was: **192.168.1.105**

Target 1 is an Apache web server and has SSH enabled, so ports 80 and 22 are possible ports of entry for attackers. As such, the following alerts have been implemented:

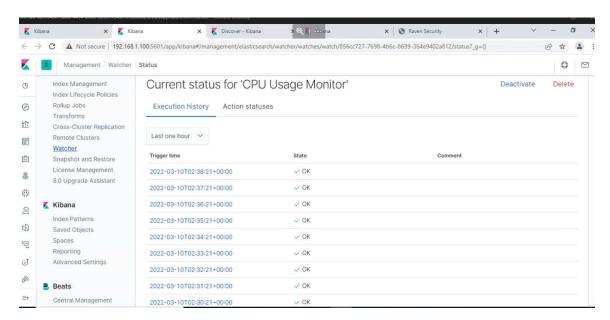
Monitoring the Targets

Traffic to these services should be carefully monitored. To this end, we have implemented the alerts below:

-CPU Usage Monitor

Alert 1 is implemented as follows:

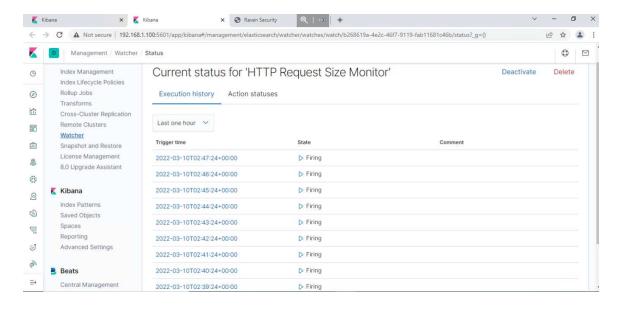
- Metric: WHEN mac() OF system.process.cpu.pct OVER all documents
- Threshold: IS ABOVE 0.5 FOR THE LAST 5 minutes
- Vulnerability Mitigated: Checks what is using the CPU
- Reliability: High



-HTTP Request Size Monitor

Alert 2 is implemented as follows:

- Metric: WHEN sum() of http.request OVER all documents
- Threshold: IS ABOVE 3500 FOR THE LAST 1 minute
- Vulnerability Mitigated: Checks for webpage availability (HTTP requests)
- Reliability: Medium



-Excessive HTTP Errors

Alert 3 is implemented as follows:

- Metric: When count() GROUPED OVER top 5 'http.response.status_code'
- Threshold: IS ABOVE 400 FOR THE LAST 5 minutes
- Vulnerability Mitigated: Enumeration
- Reliability: High

