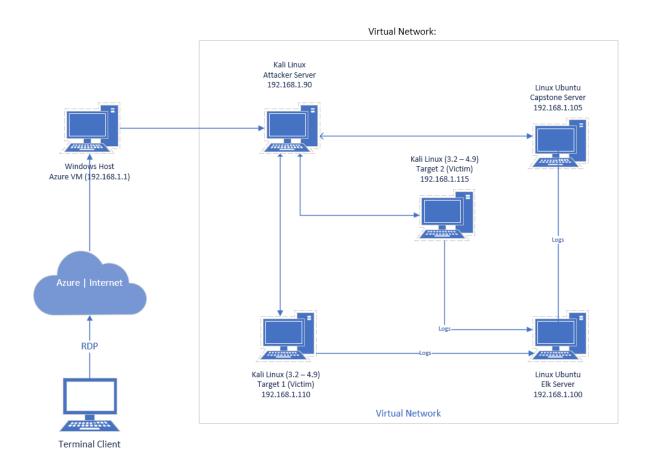
Blue Team: Summary of Operations

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Network Topology



The following machines were identified on the network:

- VM : Target 1
 - Operating System: Linux 3.2 -4.9

Purpose: Victim Machine First Target

o IP Address: 192.168.1.110

VM : Target 2

Operating System: Linux 3.2 – 4.9

• Purpose: Second Victim Machine to Attack

o **IP Address**: 192.168.1.115

VM : Elk

Operating System: Linux

 Purpose: gathers all info from other servers and prepares it for presentation within Kabana.

o **IP Address**: 192.168.1.100

VM : Kali

Operating System: Linux 2.6.32

Purpose: Used to attack Target machines

o **IP Address**: 192.168.1.90

VM : Capstone

Operating System: Linux
Purpose: Test Machine
IP Address: 192.168.1.105

VM : Gateway

Operating System: Microsoft Windows XP|7|2008

Purpose: Gateway into other machines

o IP Address: 192.168.1.1

Description of Targets

The target of this attack was: Target 1 (192.168.1.110).

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:

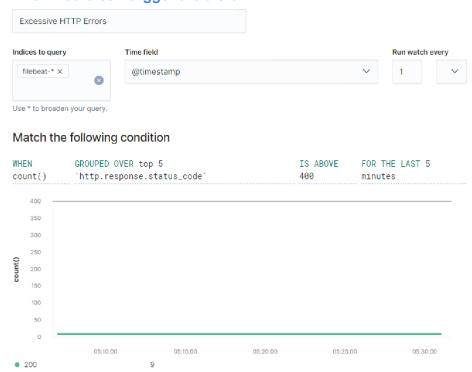
Monitoring the Targets

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

Excessive HTTP Errors

Alert 1 is implemented as follows:

- Metric: http.response.status_code
- Threshold: 400 requests in 5 minutes.
- Vulnerability Mitigated: Packet Flooding
- Reliability: Low. False positives generated. Vast majority of requests were 200 OK, which would still trigger the alert.

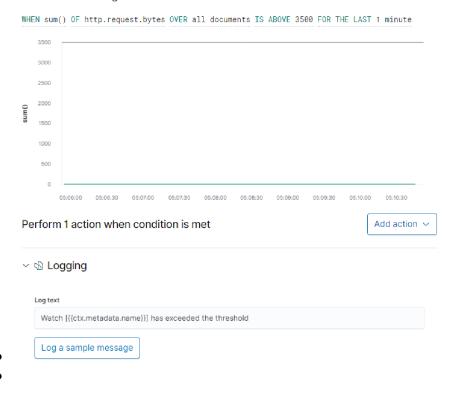


Name of Alert 2: HTTP Request Size Monitor

Alert 2 is implemented as follows:

- **Metric**: http.request.bytes
- Threshold: 3500+
- Vulnerability Mitigated: Log
- **Reliability**: Medium. There can be false positives as it can be common for large legitimate http requests and traffic.

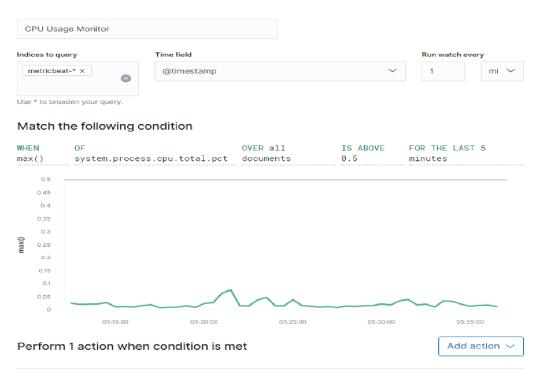
Match the following condition



CPU Usage Monitor

CPU Usage Monitor is implemented as follows:

- **Metric**: MetricBeat
- Threshold: all documents above 0.5 in the last 5 minutes
- Vulnerability Mitigated: will detect any process that use excessive processing power
- **Reliability**: TODO: Does this alert generate lots of false positives/false negatives? Rate as low, medium, or high reliability.
 - Highly Reliable. Can also be used to improve machine performance.



> 🖒 Logging