MICHIGAN STATE UNIVERSITY Beta Presentation

Detecting Security Threats from User
Patterns
The Capstone Experience

Team Symantec

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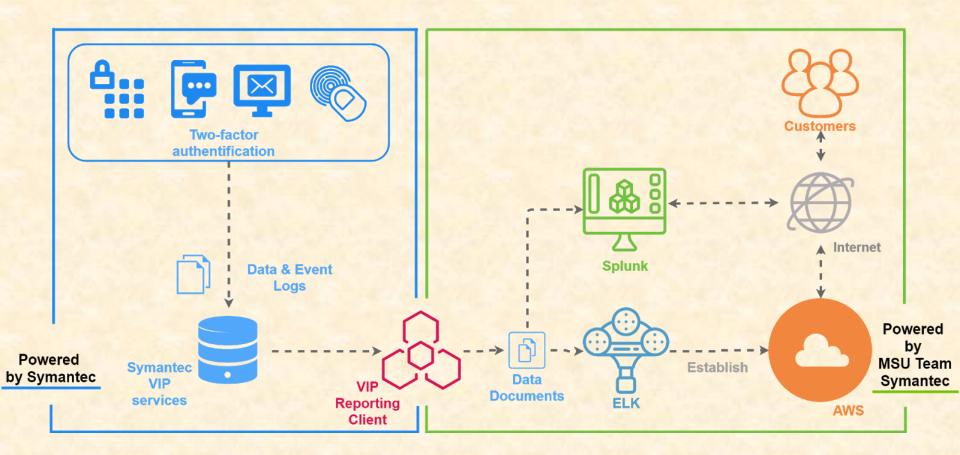
Department of Computer Science and Engineering
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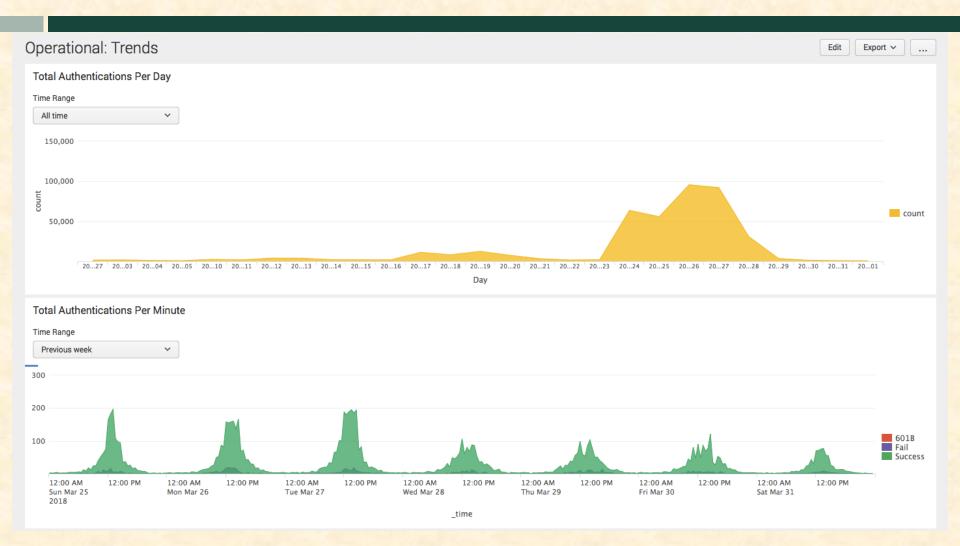
Project Overview

- The goal of the project is to provide VIP customers a Splunk add-on and an ELK application on an AWS AMI to visualize various operational and security trend information present in log data and analyze it in near realtime
- Both applications should alert users when suspicious or malicious activity is detected

System Architecture

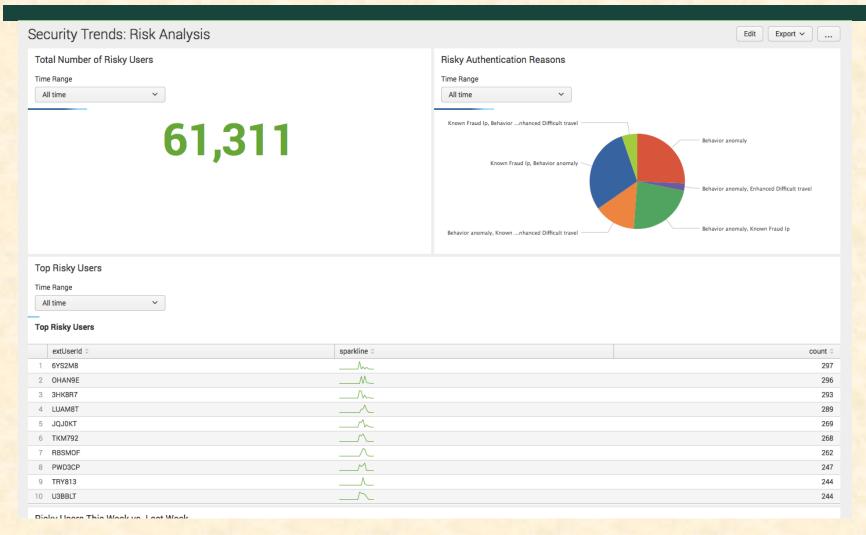


Splunk: Operation Trends Dashboard

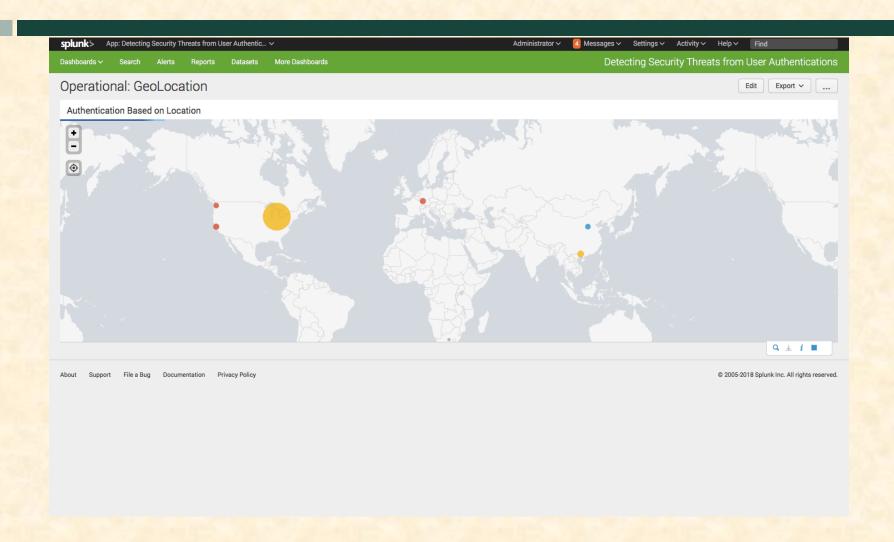




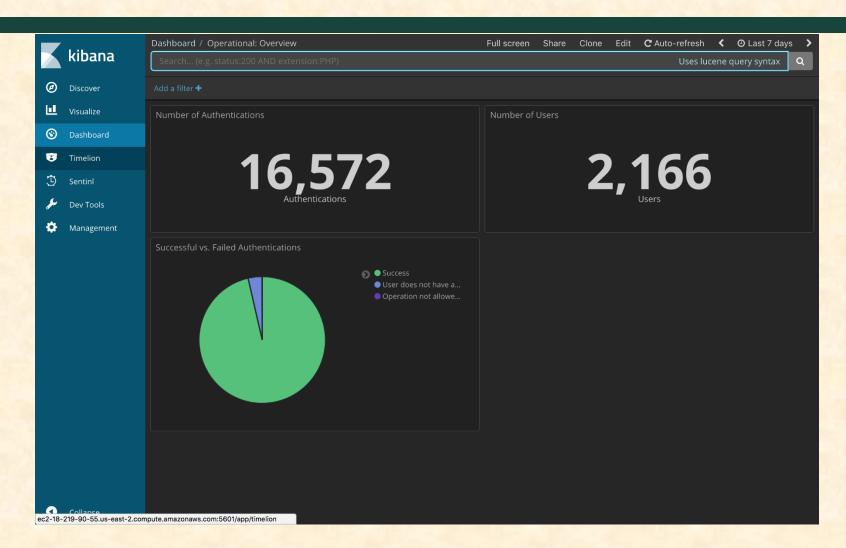
Splunk: Risk Analysis Dashboard



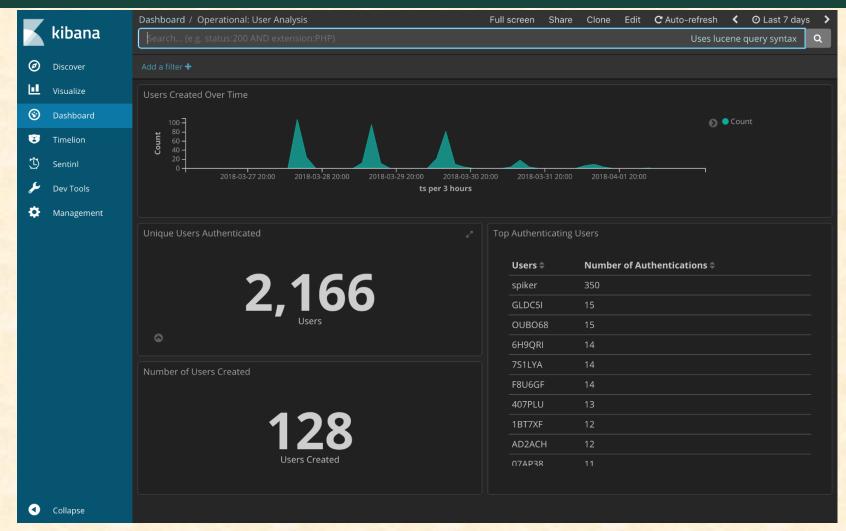
Splunk: Geolocation Dashboard



ELK: Operational Oveview Dashboard

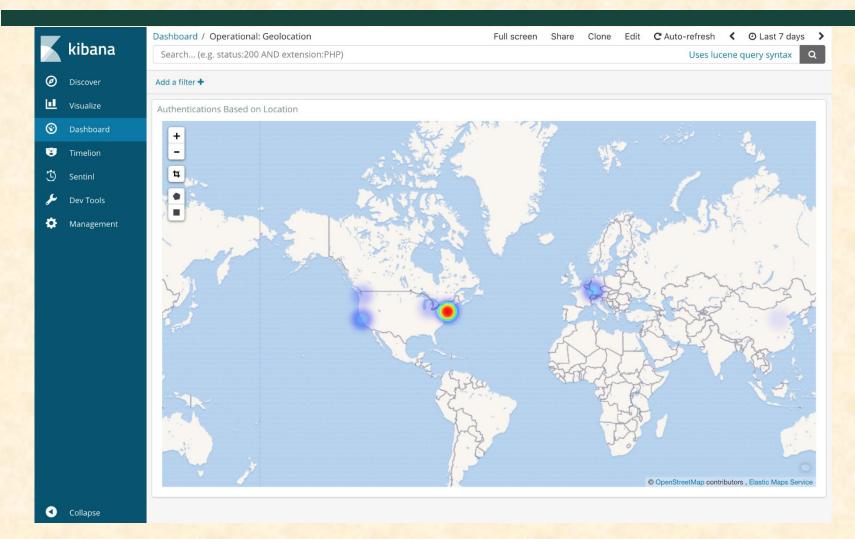


ELK: Operational User Analysis Dashboard





ELK: Geolocation Dashboard



What's left to do?

- Adding any additional pre-built panels
- Clean up Splunk UI
- Packaging the applications

Questions?

