

Project 3 Review Questions

Make a copy of this document before you begin. Place your answers below each question.

Windows Server Log Questions

Report Analysis for Severity

• Did you detect any suspicious changes in severity?

Pre Attack



Post Attack



Yes, our report did detect changes in severity, the biggest being for high severity events. They increased from roughly 7% to 20.22% during the attack.

Report Analysis for Failed Activities



• Did you detect any suspicious changes in failed activities?

Yes failed went from 142 to 93 and success went from 4622 to 5856 Yes, we did see changes in our report on the status of activities between normal logs and the attack logs. From our analysis we can see that the number of successful activities increased and the number of failed activities decreased.

Alert Analysis for Failed Windows Activity



• Did you detect a suspicious volume of failed activity?

Yes we detected suspicious volume of failed activity

If so, what was the count of events in the hour(s) it occurred?

The count of suspicious volume of Failed activities was 35

When did it occur?

March 25th at 8:00AM

• Would your alert be triggered for this activity?

Yes our Alert Threshold was set to 15 so the alert was successfully triggered

• After reviewing, would you change your threshold from what you previously selected?

Reviewing the side by side screenshot, 15 still is an appropriate threshold

Alert Analysis for Successful Logins

Pre Attack



Post Attack



• Did you detect a suspicious volume of successful logins?

Yes there was a suspicious amount of activity on March 25th at 11:00 AM and at 12:00 PM

If so, what was the count of events in the hour(s) it occurred?

March 25th 11:00AM 196 events March 25th 12:000M 77 Events

Who is the primary user logging in?

User _J

When did it occur?

March 25th 11:00AM 196 events March 25th 12:000M 77 Events

Would your alert be triggered for this activity?

Yes, Alert threshold was set to 30, so the alert threshold was sufficient

 After reviewing, would you change your threshold from what you previously selected?

No, the alert threshold set to 30 was sufficient to be triggered

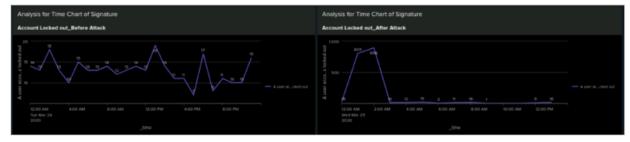
Alert Analysis for Deleted Accounts

Did you detect a suspicious volume of deleted accounts?

No suspicious activity

Dashboard Analysis for Time Chart of Signatures

Pre Attack Post Attack



Does anything stand out as suspicious?

Yes the time char signatures for the attack logs, some events stood out form the windows activity logs

What signatures stand out?

The two signatures that stood out were

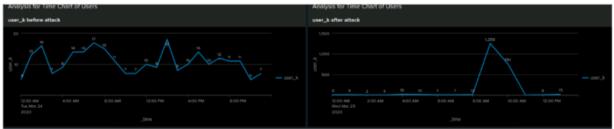
- 1. Attempts made to reset account password
- 2. Account locked out
- What time did it begin and stop for each signature?
- 1. Attempts made to reset account password: 9:00AM 11:00AM
- 2. Account locked out: 1:00AM 3:00AM
- What is the peak count of the different signatures?

Attempts made to reset account password: 1258

Account locked out: 896

Dashboard Analysis for Users

Pre Attack Post Attack



Does anything stand out as suspicious?

Yes suspicious activity with two users

Which users stand out?

User_k and User_a

• What time did it begin and stop for each user?

User_k: 9:00AM-11:00AM User_a: 1:00AM-2:00AM What is the peak count of the different users?

User_k: 1256 User_a: 984

Dashboard Analysis for Signatures with Bar, Graph, and Pie Charts

Does anything stand out as suspicious?

Yes there is a significant increase in two signature types: An attempt was made to reset an account password and A user account was locked out

Do the results match your findings in your time chart for signatures?

Yes they do match

Dashboard Analysis for Users with Bar, Graph, and Pie Charts

Does anything stand out as suspicious?

Yes, there is a noticeable increase in user_a and user_k activity

Do the results match your findings in your time chart for users?

Yes the results match the time chart

Dashboard Analysis for Users with Statistical Charts

 What are the advantages and disadvantages of using this report, compared to the other user panels that you created?

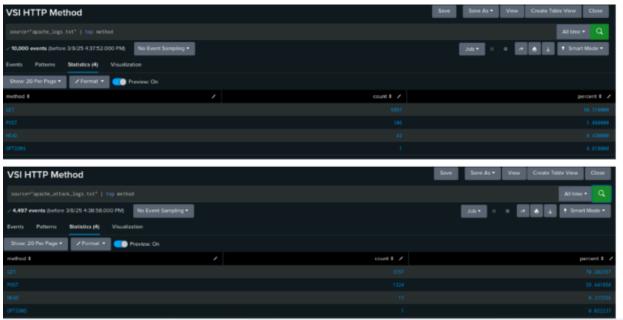
The advantage of using statistical time charts for signatures and users is that they allow for a quick determination of event counts or user activity per hour. However, a drawback compared to bar graphs and pie charts is that changes in activity are not as immediately noticeable. Visualizations like bar graphs highlight spikes and declines in events over time, while pie

charts provide a clear snapshot of which events or users have experienced increased activity

Apache Web Server Log Questions

Report Analysis for Methods

REPORT ANALYSIS FOR METHODS



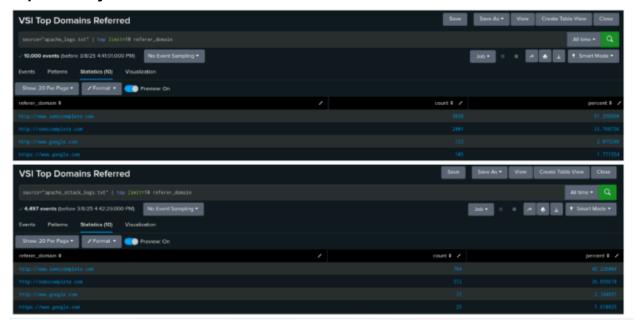
• Did you detect any suspicious changes in HTTP methods? If so, which one?

Yes we detected suspicious changes in the HTTP methods, notably POST

What is that method used for?

POST: used to send data to the server from the HTTP client

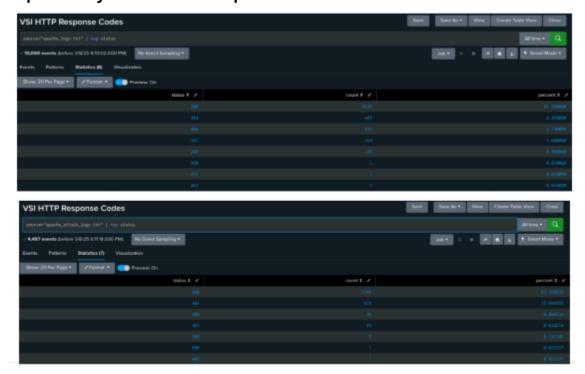
Report Analysis for Referrer Domains



Did you detect any suspicious changes in referrer domains?

Yes some suspicious activity did present itself in the top 10 referrer domains.

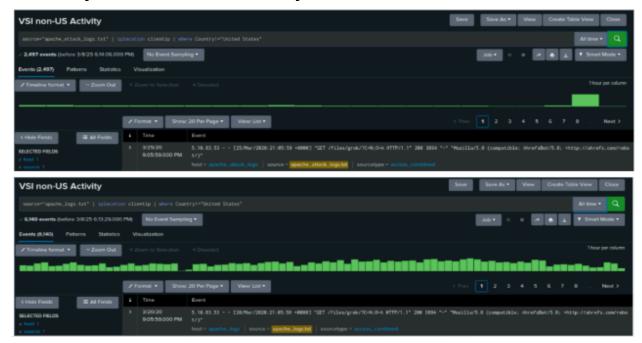
Report Analysis for HTTP Response Codes



Did you detect any suspicious changes in HTTP response codes?

We did detect a suspicious change in HTTP response codes, specifically with response code 200 and 404. Response code 200 saw a decrease in amount and 404 saw an increase.

Alert Analysis for International Activity



Did you detect a suspicious volume of international activity?

Yes we did detect a suspicious volume of international activity

If so, what was the count of the hour(s) it occurred in?

939 at 08:00 PM

• Would your alert be triggered for this activity?

Yes threshold was set to 150 and hour

After reviewing, would you change the threshold that you previously selected?

No the threshold of 150 was sufficient to set off the alert

Alert Analysis for HTTP POST Activity



• Did you detect any suspicious volume of HTTP POST activity?

Yes we detected suspicious volume of HTTP POST Activity

If so, what was the count of the hour(s) it occurred in?

The count was 1296

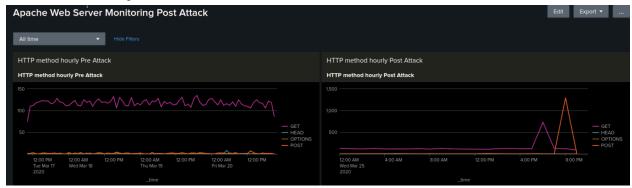
When did it occur?

March 25th 8:00PM

• After reviewing, would you change the threshold that you previously selected?

The threshold of 15 was adequate for normal activity

Dashboard Analysis for Time Chart of HTTP Methods



Does anything stand out as suspicious?

Yes there was a notable difference in the HTTP method time chart from the two logs

Which method seems to be used in the attack?

POST

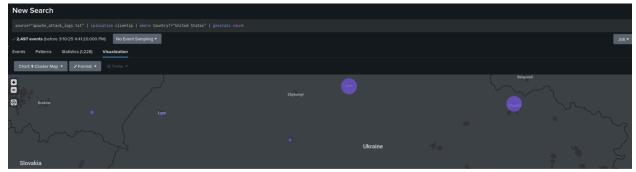
At what times did the attack start and stop?

Attacks took place between 7:00PM and 9:00PM

What is the peak count of the top method during the attack?

1296

Dashboard Analysis for Cluster Map



Does anything stand out as suspicious?

Yes, high level of international logins from a specific area

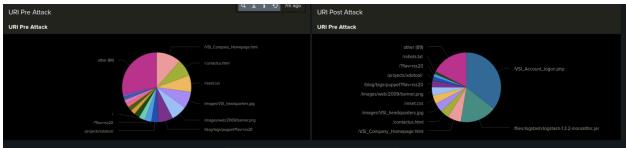
Which new location (city, country) on the map has a high volume of activity?
(Hint: Zoom in on the map.)

Kiev Ukraine and Kharkiv Ukraine/Russia (depending on when you are reading this)

What is the count of that city?

Kiev = 439Kharkiv = 433

Dashboard Analysis for URI Data



Does anything stand out as suspicious?

Yes the URI Chart does show suspicious activity

What URI is hit the most?

VSI_Account _logon.php

Based on the URI being accessed, what could the attacker potentially be doing?

Based on the URI attackers are likely using a Bruntforce attack

Presentation:

https://docs.google.com/presentation/d/1dzwNEUBLfUS3sNaJXcE0a6pWYD_dl-dl3dVyYGVa348/edit?usp=sharing

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