

Project 3 Review Questions

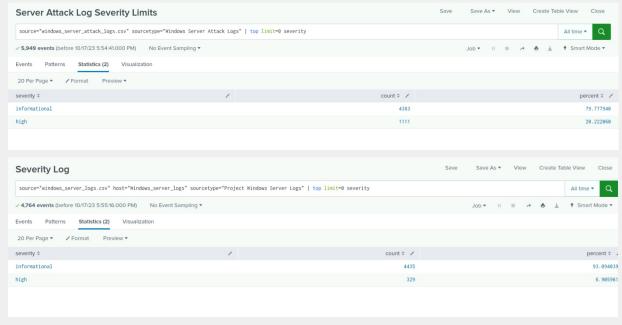
Make a copy of this document before you begin. Place your answers below each question.

Windows Server Log Questions

Report Analysis for Severity

Did you detect any suspicious changes in severity?

Between the Windows Server Logs and the Windows Server Attack Logs, we can see a major difference in the number of High severity occurrences, whereas the informal roughly stays the same. On the windows server attack logs, we can see the number of high severity occurrences is 1111, but if we look at the windows server logs we can see a much smaller number, 329.



Report Analysis for Failed Activities

Did you detect any suspicious changes in failed activities?

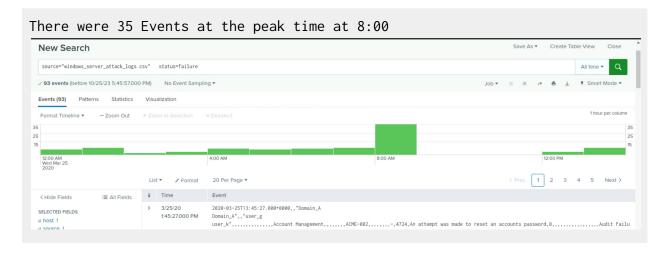
Between the two windows server files, there is a little bit of suspicious activity regarding the success counts. In the Windows Server Attack Logs we can see an increase in successful logins by about 1200 when compared to the windows server logs.

Alert Analysis for Failed Windows Activity

Did you detect a suspicious volume of failed activity?

There was a slight spike in suspicious activity once we analyzed the windows attack logs, I wouldn't look at the whole day and say it was an abnormal value other than the one time, which was 8:00 AM

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



When did it occur?

8:00AM

Would your alert be triggered for this activity?

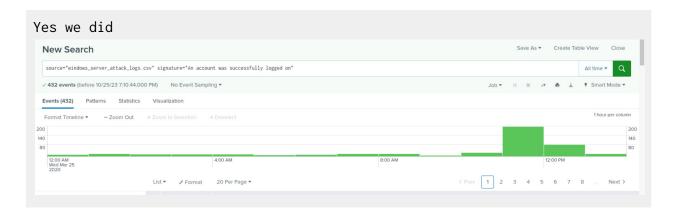
Yes, we had originally set the threshold at 15 so the alert would have been triggered

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

We would maybe lower the threshold a little to maybe 20 to be safe

Alert Analysis for Successful Logins

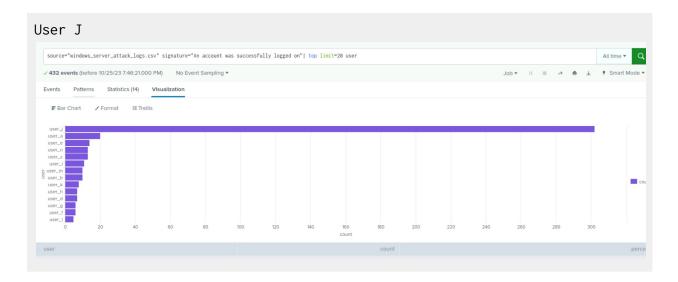
Did you detect a suspicious volume of successful logins?



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

196 at 11AM Wednesday

Who is the primary user logging in?



When did it occur?

Between 11 and 1

Would your alert be triggered for this activity?

Yes as our Threshold was set at 25

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

We would maybe raise our threshold a bit.

Alert Analysis for Deleted Accounts

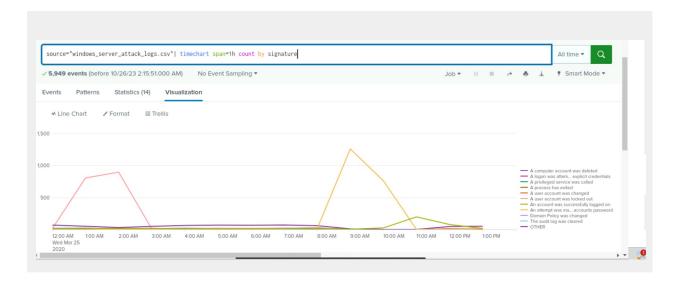
Did you detect a suspicious volume of deleted accounts?

Yes we did, at around 9:00AM

Dashboard Analysis for Time Chart of Signatures

Does anything stand out as suspicious?

Yes, the password reset and account lockout spikes in the day



What signatures stand out?

An Attempt was made to reset an accounts password and A user account was locked out

What time did it begin and stop for each signature?

12-3 AM for the User account lockout, and around 8-11 AM for the reset password $\,$

• What is the peak count of the different signatures?

896 for the User account lockout, and around 1,258 for the reset password

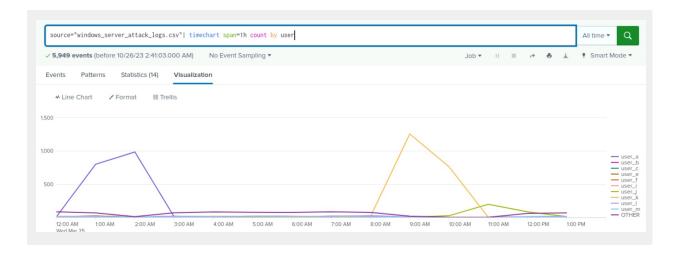
Dashboard Analysis for Users

Does anything stand out as suspicious?

Yes, 2 spikes from 12-3 AM and 8-11AM

Which users stand out?

User A and User K



What time did it begin and stop for each user?

User A went from 12am-3am and User K went from 8 to about 11

What is the peak count of the different users?

The peak for User A was 984 and 1256 for User K

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

Does anything stand out as suspicious?

Yes, there were a few differences between the Bar and pie chart

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

It seemed like the bar and pie charts were a little bit more precise in breaking down the totals per hour. Because of this there were more peaks and the numbers were a little skewed. For example with a bar chart we can see two major spikes at 1 am and 2 am and concrete numbers for both.

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

Does anything stand out as suspicious?

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

The same can be said with the users chart that was said for the signature chart, it breaks down multiple instances of activity and illustrates a more detailed timeline.

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?

Visually it definitely helps to look at this as a graph so you can quickly pinpoint the peaks, however the stats page allows you to be more granular over time and look at specific points for each user.

Apache Web Server Log Questions

Report Analysis for Methods

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

Yes, we saw a significant decrease in normal activity with the GET Method and significant increase with the POST Method

What is that method used for?

They are used to send and request data to the server

Report Analysis for Referrer Domains

Did you detect any suspicious changes in referrer domains?

No

Report Analysis for HTTP Response Codes

Did you detect any suspicious changes in HTTP response codes?

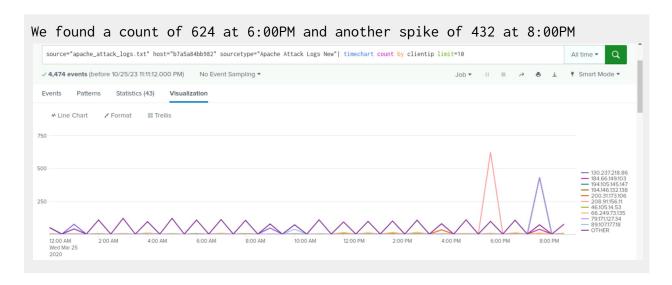
Yes, almost all of the POST came at 8:00PM

Alert Analysis for International Activity

Did you detect a suspicious volume of international activity?

Yes, we found a couple major spikes in International Activity

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



Would your alert be triggered for this activity?

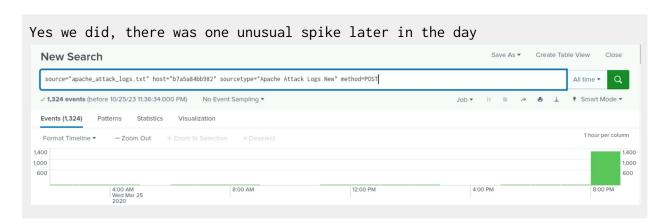
Yes it would have, as we set our alert to 125

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

We would most likely not change the threshold

Alert Analysis for HTTP POST Activity

Did you detect any suspicious volume of HTTP POST activity?



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

1,296

When did it occur?

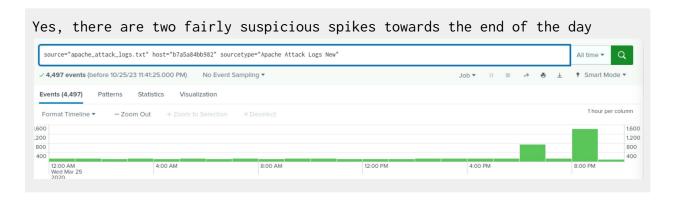
8:00PM

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

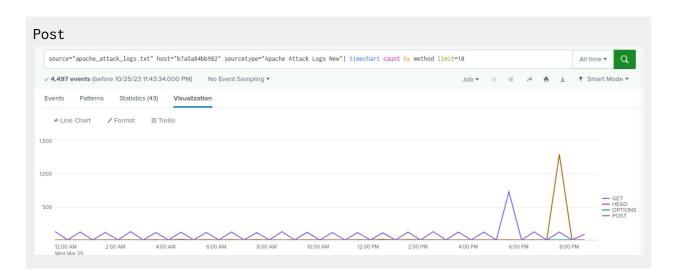
I would not change the threshold, as the spike seems to be an extreme outlier

Dashboard Analysis for Time Chart of HTTP Methods

Does anything stand out as suspicious?



Which method seems to be used in the attack?



• At what times did the attack start and stop?

From about 5:30 - 8:30

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

1,296 for Post

Dashboard Analysis for Cluster Map

Does anything stand out as suspicious?

Yes, there are major clusters in the US and Eastern Europe

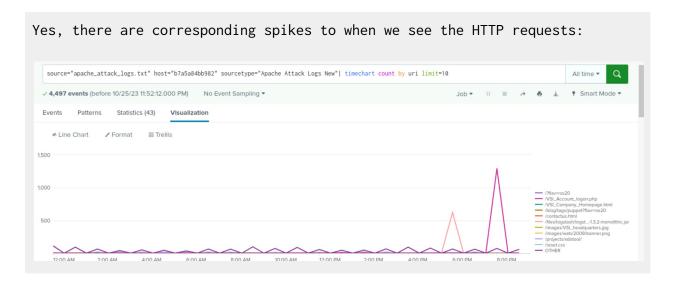
Which new location (city, country) on the map has a high volume of activity?
(Hint: Zoom in on the map.)

Ashburn VA, United States

What is the count of that city?

Dashboard Analysis for URI Data

Does anything stand out as suspicious?



What URI is hit the most?

/VSI_Account_logon.php:

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

This could be a Brute Force attack with the attacker trying to access secure data with different usernames and passwords.

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