

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?

Yes, the severity for high went way up into the thousands

Report Analysis for Failed Activities

Did you detect any suspicious changes in failed activities?

Yes the number of successes went up while the number of failures went down.

Alert Analysis for Failed Windows Activity

Did you detect a suspicious volume of failed activity?

Yes there was a spike in activity.

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

There was a total count of 35

When did it occur?

at 8:00 am to 9:00 am on Wednesday March 25, 2020

Would your alert be triggered for this activity?

Yes it would because my threshold is "anything greater than 15"

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

No I would not, because the average baseline is normal and less than threshold.

Alert Analysis for Successful Logins

Did you detect a suspicious volume of successful logins?

No, it was not a suspicious volume however, it was slightly outside of the average

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

The total count was 16

Who is the primary user logging in?

User_c was primary user logging in during this time

When did it occur?

Mar 25 2020, at 8:00 am

Would your alert be triggered for this activity?

No it would not because my threshold was set "anything greater than 30"

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

No I would not

Alert Analysis for Deleted Accounts

Did you detect a suspicious volume of deleted accounts?

No.

Dashboard Analysis for Time Chart of Signatures

Does anything stand out as suspicious?

Yes, there are 2 spikes.

What signatures stand out?

High count of attempted account password resets and a high count of user accounts locked

What time did it begin and stop for each signature?

Attempted account password reset: 8 am to 11 am User account locked out: 12 am to 3 am

• What is the peak count of the different signatures?

Attempted account password reset: 1258 User account locked out: 896

Dashboard Analysis for Users

Does anything stand out as suspicious?

Yes, 2 users seem to stand out as ones logged in the most over a time

Which users stand out?

User_a and user_k

What time did it begin and stop for each user?

User_a: 12 am to 3 am User_k: 8 am to 11 am

• What is the peak count of the different users?

User_a: 984 User_k: 1256

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

Does anything stand out as suspicious?

Yes, the Account locked and account password reset are both high

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

Yes, they match.

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

Does anything stand out as suspicious?

Yes, 2 users log in way more than the others

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

Yes, they match.

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?

With the statistical chart you can just view the count or the number of logins only, with the line graph visualization as well as the pie chart, you can clearly see which times the bulk of the logins occurred as well as which users had a greater amount of logins.

Apache Web Server Log Questions

Report Analysis for Methods

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

Yes, there was a significant spike in POST method

What is that method used for?

It is used to send data to a server or create/update a resource

Report Analysis for Referrer Domains

Did you detect any suspicious changes in referrer domains?

Yes, other than the top 5 domains that refer VSI, the rest of the top 10 changes.

Report Analysis for HTTP Response Codes

Did you detect any suspicious changes in HTTP response codes?

Yes, there was a spike in status code 404

Alert Analysis for International Activity

Did you detect a suspicious volume of international activity?

Yes, a spike around Europe, specifically Ukraine in the cities of Kiev and Kharkiv

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

It occurred for 1 hour at 8:00 pm for a total count of 877

Would your alert be triggered for this activity?

Yes, because my threshold is "anything greater than 150"

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

I would not change the threshold, looking at the average around for the baseline before the attack, the threshold is still good.

Alert Analysis for HTTP POST Activity

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

Yes, a spike in activity

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

It occurred for an hour for a count of 1,296 events

When did it occur?

8:00 pm to 9:00 pm on Wednesday March 25 2020

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

No, because with the threshold set, there is a clear spike in activity

Dashboard Analysis for Time Chart of HTTP Methods

Does anything stand out as suspicious?

There is a spike for the POST method

Which method seems to be used in the attack?

POST method

At what times did the attack start and stop?

The attack started around 7:00 pm and stopped around 9:00 pm

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

The top count is 1296

Dashboard Analysis for Cluster Map

Does anything stand out as suspicious?

There is an abnormal amount of 404 status codes as well as a great amount of status code 200 from ukraine which wasn't there before the attack

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

In the United States, Washington DC = abnormal amount of status 404 errors In Ukraine, Kiev and Kharkiv = great amount of status 200 codes

What is the count of that city?

Washington DC = Status code 404: 643

Kiev = status 200: 439
Kharkiv = status 200: 433

Dashboard Analysis for URI Data

Does anything stand out as suspicious?

Yes, there is a spike among one of them.

What URI is hit the most?

/VSI_Account_logon.php

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

Attempting to login to VSI via Brute Force

© 2022 Trilogy Education Services, a 2U, Inc. brand. All Rights Reserved.