

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, high severity events increased from 329 to 1111 while informational events were relatively the same.

Report Analysis for Failed Activities

Did you detect any suspicious changes in failed activities?

Yes, we set our threshold for failed password resets at 4.

Alert Analysis for Failed Windows Activity

• Did you detect a suspicious volume of failed activity?

Yes we set our threshold for failed passwords reset at 4. We saw a count of 35 in one hour.

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

35.

• When did it occur?

3 am Wednesday March 25, 2020.

Would your alert be triggered for this activity?

Yes, the alert would be triggered and we would alert on 4 failed password resets.

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

No, I would not change the threshold, but we might consider loosening a little to not have too many alerts.

Alert Analysis for Successful Logins

Did you detect a suspicious volume of successful logins?

.Yes

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

7:00pm March 24, 2020 - 8:00am March 25,2020

Who is the primary user logging in?

User_b with 10 and user_n with 9.

When did it occur?

1AM March 24 to 5 pm March 24, 2020.

Would your alert be triggered for this activity?

No it would not by a single user.

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

No, because it would trigger too many alerts.

Alert Analysis for Deleted Accounts

• Did you detect a suspicious volume of deleted accounts?

Yes, we saw multiple events.

Dashboard Analysis for Time Chart of Signatures

Does anything stand out as suspicious?

There were a large number of deleted accounts during the same time frame of the other events.

What signatures stand out?

Special privileges assigned to new logon, A computer account was deleted, system security access was removed from an account, A user account was deleted.

What time did it begin and stop for each signature?

Special privileges assigned to new logon 7pm Mar23 to 7pm Mar 24, alert @11 A computer account was deleted 7pm Mar 23 to 6 pm Mar 24, alert @ 10 System security access was removed from an account 7pm Mar 23 to 6 pm Mar 24, alert @ 10

A user account was deleted 7pm Mar 23 to 6 pm Mar 24, alert @ 11

What is the peak count of the different signatures?

```
Special privileges assigned to new logon 23
A computer account was deleted 17
System security access was removed from an account 18
A user account was deleted 22
```

Dashboard Analysis for Users

Does anything stand out as suspicious?

Yes, there was a significant amount of logins from three users.

Which users stand out?

```
User_k, user_a and user_j
```

What time did it begin and stop for each user?

```
user_k :03/25/2020 04:00am - 06:00am
user_a :03/24/2020 8:00pm - 10:00pm
User_j :03/25/2020 06:00am - 08:00am
```

• What is the peak count of the different users?

```
User_k :1256
User_a :984
User_j :196
```

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

Does anything stand out as suspicious?

Yes, a high amount of "A user account was locked out" and "An attempt was made to reset an accounts password".



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

Yes

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

Does anything stand out as suspicious?

Yes, there's an increase in user_a, user_k and user_j.

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

Yes

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?

While using the statistical charts an advantage was using the time charts. These charts helped quickly find data for the events or for the user per hour. A disadvantage was using the bar graphs. These would slow down the process immensely because it isn't obvious to see change in activity. The different graphs show ups

Apache Web Server Log Questions

Report Analysis for Methods

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

Yes there were suspicious changes, especially POST.

What is that method used for?

POST is used to send data to the server.

Report Analysis for Referrer Domains

Did you detect any suspicious changes in referrer domains?

I definitely noticed changes. The count of the last 5 domains dropped drastically.

Report Analysis for HTTP Response Codes

Did you detect any suspicious changes in HTTP response codes?

We detected suspicious changes with response code 200 and 404.

Alert Analysis for International Activity

Did you detect a suspicious volume of international activity?

Yes, there was a suspicious volume of international activity.

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

At 8:00 PM, the count was 939.

Would your alert be triggered for this activity?

Our alert was set to more than 140, so it would have been triggered.

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

I would not change the threshold.

Alert Analysis for HTTP POST Activity

Did you detect any suspicious volume of HTTP POST activity?

Yes.

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

At 8:00 PM on March 25th, 2020, the count was 1296.

When did it occur?

8:00 PM on March 25th, 2020.

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

No I would not. We set the threshold to 15 which should be perfect.

Dashboard Analysis for Time Chart of HTTP Methods

Does anything stand out as suspicious?

There is a variation in the HTTP method time charts which is suspicious.

Which method seems to be used in the attack?

POST.

At what times did the attack start and stop?

Between 7:00 PM and 9:00 PM.

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, one city has a high volume of activity.

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

Kiev has a high volume.

What is the count of that city?

439.

Dashboard Analysis for URI Data

Does anything stand out as suspicious?

Yes.

What URI is hit the most?

VSI_Account_logon.php is hit the most.

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

The attacker is likely conducting a brute force attack.

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