

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, there was an increase of about 453 high-warning events from 658(prior) to 1,111 (attack logs).

Report Analysis for Failed Activities

Did you detect any suspicious changes in failed activities?

Yes, the events with failed activities associated went up by almost two times.

Alert Analysis for Failed Windows Activity

Did you detect a suspicious volume of failed activity?

Yes, I did.

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

The count was 35.

When did it occur?

2020-03-25 08:00

• Would your alert be triggered for this activity?

Yes it would have been triggered.

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

No, I would not have changed my threshold of 12 and a baseline of 6.

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?

23, 196, 77

• Who is the primary user logging in?

user_j

When did it occur?

It occurred from 2020-03-25 10:00 to 2020-03-25 13:00

Would your alert be triggered for this activity?

Yes the alert would have been triggered

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

No I would not change my threshold of 22 and baseline of 14.

Alert Analysis for Deleted Accounts

Did you detect a suspicious volume of deleted accounts?

No suspicious volume was detected. a baseline of 27 and a threshold of 36 were used.

Dashboard Analysis for Time Chart of Signatures

Does anything stand out as suspicious?

Yes, 3 signatures stand out as suspicious.

What signatures stand out?

"An attempt was made to reset accounts password," "A user account was locked out," and "An account was successfully logged on."

What time did it begin and stop for each signature?

For "An attempt was made to reset accounts password," it was 9-11am For "A user account was locked out," it was 1-3am For "An account was successfully logged on." it was 11am-1pm

What is the peak count of the different signatures?

For "An attempt was made to reset accounts password," it was 1258 For "A user account was locked out," it was 896

For "An account was successfully logged on." it was 196.

Dashboard Analysis for Users

Does anything stand out as suspicious?

Yes, 3 users are showing to be unusually active.

Which users stand out?

```
user_a, user_k, and user_k
```

What time did it begin and stop for each user?

```
user_a: 1:40 am to 2:50 am
user_k: 9:10 am to 11:00 am
user_j: 10:40 am to 12:20 pm
```

• What is the peak count of the different users?

```
user_a: 785
user_k: 397
user_j: 35
```

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

Does anything stand out as suspicious?

```
Yes, the following signatures are: "An attempt was made to reset accounts password," "A user account was locked out," and "An account was successfully logged on."
```

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, the following users are suspicious: user_a, user_k, and user_k

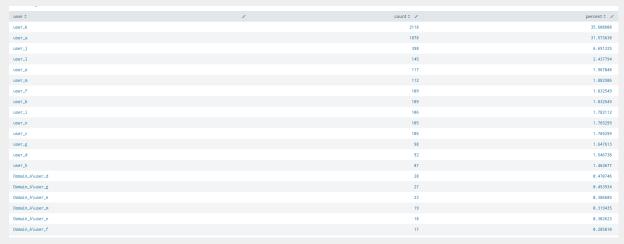
Do the results match your findings in your time chart for users?

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?

Disadvantages: You can not see the specific time in which the spikes happen. Advantages: You can very accurately identify the exact number of events associated with each user which makes it easier to be concise in a report.



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 marked increase in POST methods and a huge decrease in GET methods.

What is that method used for?

The HTTP Post method is used to send data to a server in order to create or update a resource. The HTTP GET methods are used to request data from a source. DDoS attacks commonly use both HTTP Post and Get methods.

Report Analysis for Referrer Domains

• Did you detect any suspicious changes in referrer domains?

No, other than there were markedly less active but the domain hierarchy remained the same.

Report Analysis for HTTP Response Codes

• Did you detect any suspicious changes in HTTP response codes?

Yes, 200 response codes went down by over 5000, 404 response codes went up by over 400, and 304 response codes went down by over 300.

Alert Analysis for International Activity

Did you detect a suspicious volume of international activity?

Yes, using a baseline of 74 and a threshold of 122.

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

It occurred from 8pm to 9pm with a count of 939.

Would your alert be triggered for this activity?

Yes, it would have been triggered.

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

No, I would not change my previously determined threshold.

Alert Analysis for HTTP POST Activity

Did you detect any suspicious volume of HTTP POST activity?

Yes, using a threshold of 6 and a baseline of 2.

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

7 and 1296

When did it occur?

2020-03-25 13:00 and 2020-03-25 20:00

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

Yes I would raise the threshold to 7 to avoid the false positive on the 13:00 time period.

Dashboard Analysis for Time Chart of HTTP Methods

Does anything stand out as suspicious?

The spike in Get methods at 6pm and the spike in Post methods at 8pm.

Which method seems to be used in the attack?

The Post method seems to be used for the attack.

At what times did the attack start and stop?

The attack started at 7:30 pm and ended at 8:30 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 there are more events associated with Ukraine.

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

Both Kyviv and Kharkiv in Ukraine have a volume of activity.

What is the count of that city?

Kyviv has a count of 438 and Kharkiv has a count of 432.

Dashboard Analysis for URI Data

Does anything stand out as suspicious?

There was over a thousand count increase in /VSI_Account_logon.php and drastic decrease in /VSI_Company_Homepage.html

What URI is hit the most?

/VSI_Account_logon.php

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

The attacker could potentially be conducting a brute force attack such as password spraying.

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