

Project 3 Review Questions

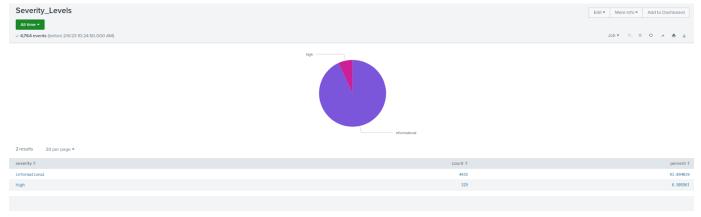
Make a copy of this document before you begin. Place your answers below each question.

Windows Server Log Questions

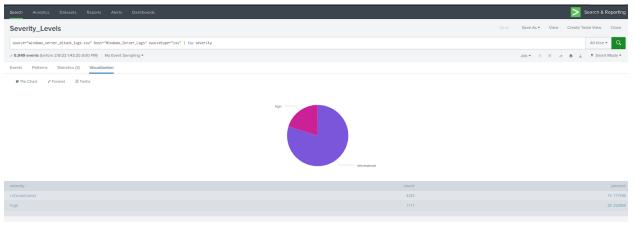
Report Analysis for Severity

Did you detect any suspicious changes in severity?

source="windows_server_logs.csv" host="Windows_Server_Logs" sourcetype="csv" |
top severity

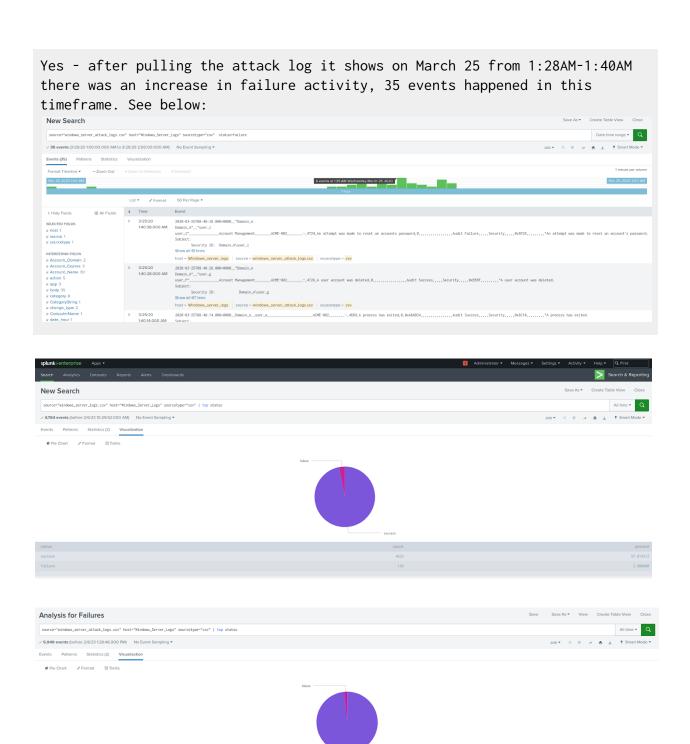


source="windows_server_attack_logs.csv" host="Windows_Server_Logs"
sourcetype="csv" | top severity



Report Analysis for Failed Activities

Did you detect any suspicious changes in failed activities?



Alert Analysis for Failed Windows Activity

Did you detect a suspicious volume of failed activity?

Yes - 93 events between March 24th-25th. Peaking on March 25th between

1AM-2AM.

Falled_Login

Sove Sove Als* Vow Order Table Vow Order Table

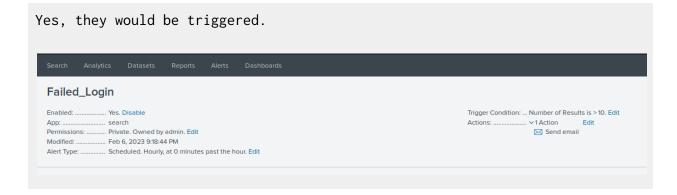
If so, what was the count of events in the hour(s) it occurred?

35 events

When did it occur?

March 25th, 2020 at 1:00AM

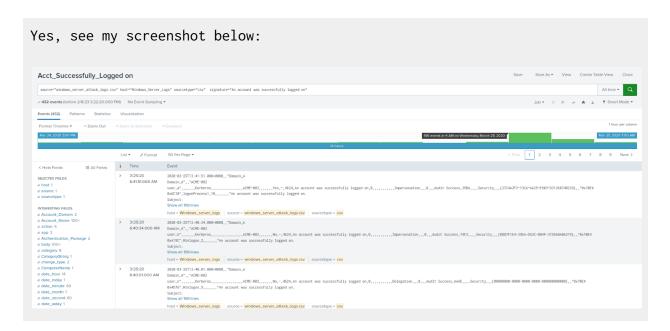
Would your alert be triggered for this activity?



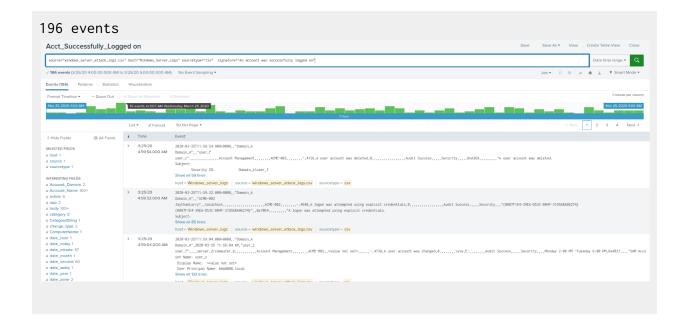
 After reviewing, would you change your threshold from what you previously selected? No, I would not change the threshold for the alerts as it would have been triggered for review by the SOC team.

Alert Analysis for Successful Logins

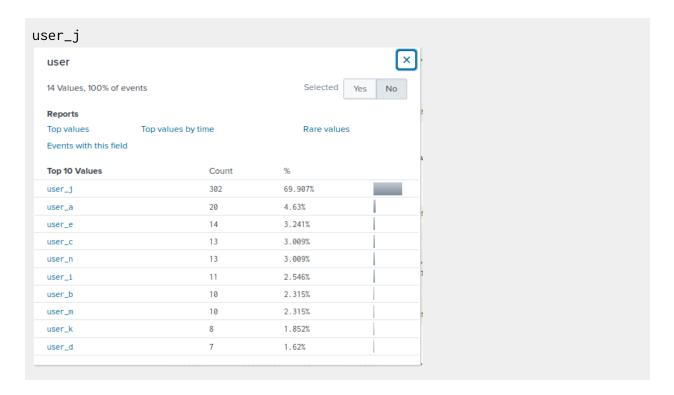
Did you detect a suspicious volume of successful logins?



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



• Who is the primary user logging in?

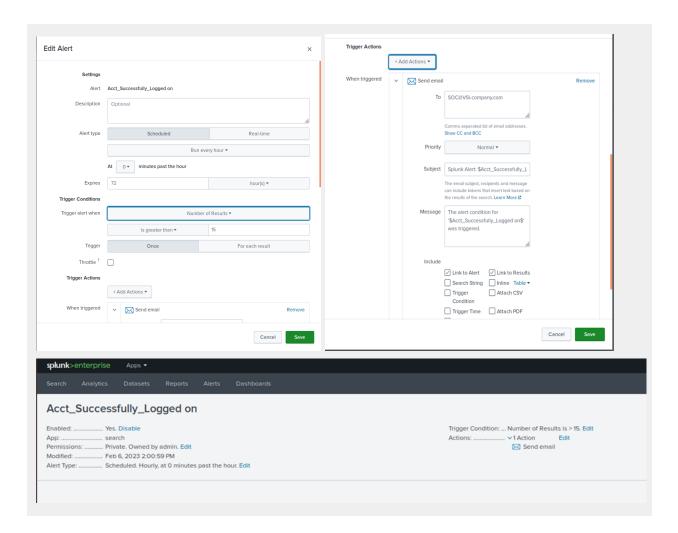


When did it occur?

between 4PM-5PM on March 25th.

• Would your alert be triggered for this activity?

Yes - see my alert properties below:

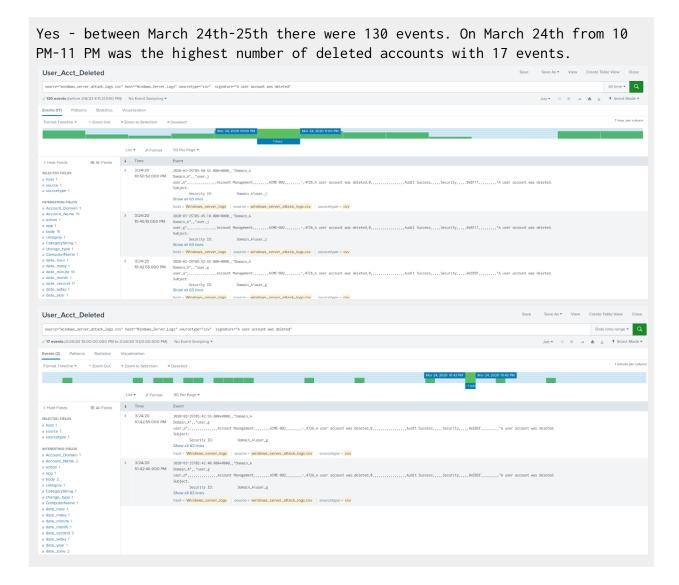


 After reviewing, would you change your threshold from what you previously selected?

No - as my alert setup would trigger to the SOC team for review.

Alert Analysis for Deleted Accounts

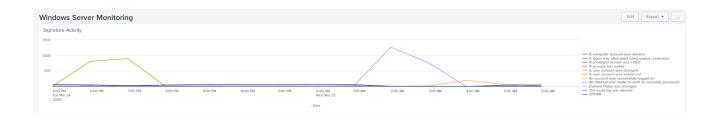
Did you detect a suspicious volume of deleted accounts?



Dashboard Analysis for Time Chart of Signatures

Does anything stand out as suspicious?

Yes - the first screenshot is prior to the attack logs and the second screenshot is after the attack logs. 3 signatures stand out from the rest.



What signatures stand out?

```
A user account was locked out
An attempt was made to reset an accounts password
An account was successfully logged on
```

What time did it begin and stop for each signature?

```
5:00PM - 8:00PM A user account was locked out
1:00AM - 4:00PM An attempt was made to reset an accounts password
3:00AM - 5:00PM An account was successfully logged on
```

What is the peak count of the different signatures?

```
896 A user account was locked out
1,258 An attempt was made to reset an accounts password
196 An account was successfully logged on
```

Dashboard Analysis for Users

Does anything stand out as suspicious?

All 3 events happen after normal business hours. From late evening/night and early hours of the morning. All events have to do with user credentials for access whether it's successful or failure.

Which users stand out?

```
user_a
user_k
user_j
```

What time did it begin and stop for each user?

```
user_a 5PM-8PM
User_k 1AM-4AM
```

```
user_j 3AM-6PM
```

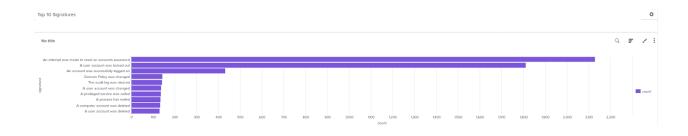
What is the peak count of the different users?

```
user_a 984
User_k 1,256
user_j 196
```

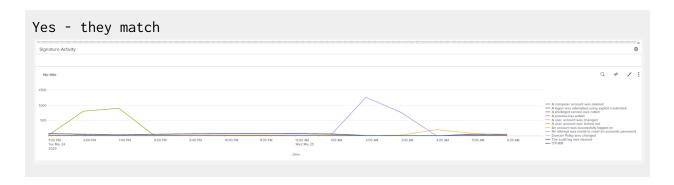
Dashboard Analysis for Signatures with Bar, Graph, and Pie Charts

Does anything stand out as suspicious?

Yes - see screenshots below: See screenshots below for the before attack logs and after. The 3 signatures stand out after the attack logs that match the alert section above.



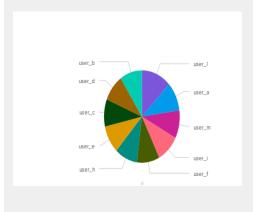
Do the results match your findings in your time chart for signatures?

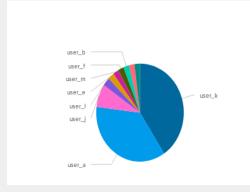


Dashboard Analysis for Users with Bar, Graph, and Pie Charts

Does anything stand out as suspicious?

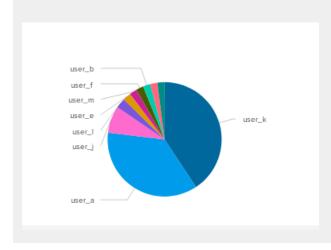
Yes - see screenshots below. For before and after attack log.

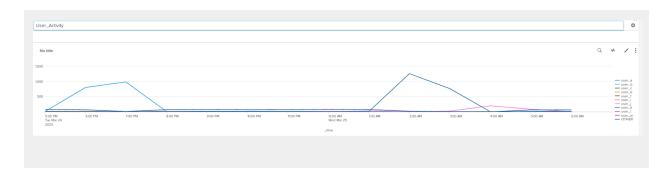




Do the results match your findings in your time chart for users?

Yes: see results below. The 3 users stand out for both time chart and pie 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?

High signatures can distract security teams, allowing attackers to hide behind smaller ones remaining under the radar.

Apache Web Server Log Questions

Report Analysis for Methods

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

Yes, Post was increased after attack log.

What is that method used for?

The Post method is utilized to modify or revise the configurations of the server's datbate.

Report Analysis for Referrer Domains

Did you detect any suspicious changes in referrer domains?

Semicomplete remains the top referrer.

Report Analysis for HTTP Response Codes

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

There is a significant frequency of HTTP status codes 200, 304 and 404.

Alert Analysis for International Activity

Did you detect a suspicious volume of international activity?

Yes, from Ukraine

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

03/25/2020 8PM-9PM

• Would your alert be triggered for this activity?

Yes they were triggered.

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

No, The setup worked and alerted.

Alert Analysis for HTTP POST Activity

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

Yes, 1296

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

Within 1 hr

When did it occur?

03/25 8:00PM to 9:00PM.

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

No, as it worked.

Dashboard Analysis for Time Chart of HTTP Methods

• Does anything stand out as suspicious?

Yes, post requests was elevated.

• Which method seems to be used in the attack?

HTTP POST flood attack, possibly a DDoS.

• At what times did the attack start and stop?

Started at 03/25 8:00PM, ended at 03/25 9:00PM.

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

Post at 1296

Dashboard Analysis for Cluster Map

Does anything stand out as suspicious?

Yes, there's a lot of activity in Europe.



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

Ukraine

What is the count of that city?

877

Dashboard Analysis for URI Data

Does anything stand out as suspicious?

Yes, there are elevated instances of accessing VSI_Account_logon.php and logstash-1.3.2-monolithic.jar

What URI is hit the most

VSI_account_logon.php

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

Creating or changing accounts to sabotage or ransom VSI infrastructure.