

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 change occurred on the high severity scale, the count was 329 and now is 1111 of the count, and the informational severity decreased by 6% of the count. Windows_logs: source="windows_server_logs.csv" | top limit=20 severity Date time range ▼ ✓ **4,764 events** (1/28/20 1:00:48.000 PM to 8/25/24 1:30:11.000 AM) No Event Sampling ▼ Events Patterns Statistics (2) Visualization 20 Per Page ▼ / Format Preview ▼ severity \$ percent \$ informational 93.094039 6.905961 Attack_logs: source="windows_server_attack_logs.csv" host="windows_server_logs" sourcetype="csv" | top limit=20 severity All time ▼ Q ✓ **5,949 events** (before 8/25/24 7:19:08.000 AM) No Event Sampling ▼ Events (5,949) Patterns Statistics (2) Visualization 20 Per Page ▼ / Format Preview ▼ 4383 informational 79.777940 20.222060

Report Analysis for Failed Activities

Did you detect any suspicious changes in failed activities?

We noticed some changes between the server_logs and the server_attack_logs, there were more successes than failures after the attack. Windows_logs: source="windows_server_logs.csv" host="windows_server_logs" sourcetype="csv"| top limit=10 status Date time range ▼ ✓ **4,764 events** (1/28/20 1:00:48.000 PM to 8/25/24 7:25:48.000 AM) No Event Sampling ▼ Events (4,764) Patterns Statistics (2) Visualization 20 Per Page ▼ / Format Preview ▼ SUCCESS 4622 97.019312 Attack_logs: source="windows_server_attack_logs.csv" host="windows_server_logs" sourcetype="csv" | top limit=10 status All time ▼ ✓ **5,949 events** (before 8/25/24 7:25:05.000 AM) No Event Sampling ▼ Events (5,949) Patterns Statistics (2) Visualization 20 Per Page ▼ / Format Preview ▼ status \$ count \$ / 98.436712 success failure 1.563288

Alert Analysis for Failed Windows Activity

Did you detect a suspicious volume of failed activity?

Yes, the alert detected a volume of failed activity

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

35 failed windows activity.

When did it occur?

March/25/2020 at 8:00



Would your alert be triggered for this activity?

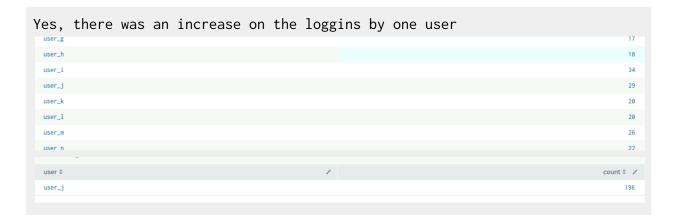
Yes, the alert has been triggered and exceeded our threshold.

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

No, the alert was perfectly set up to be triggered by the attack, so we can have the exact activity without getting any false positives.

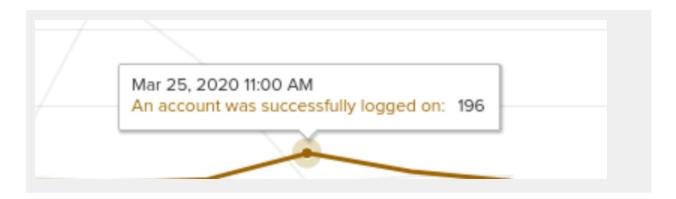
Alert Analysis for Successful Logins

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 11:00 am



• Who is the primary user logging in?



• When did it occur?

march-25-2020

• Would your alert be triggered for this activity?

The alert was successfully triggered

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

No, it worked perfectly.

Alert Analysis for Deleted Accounts

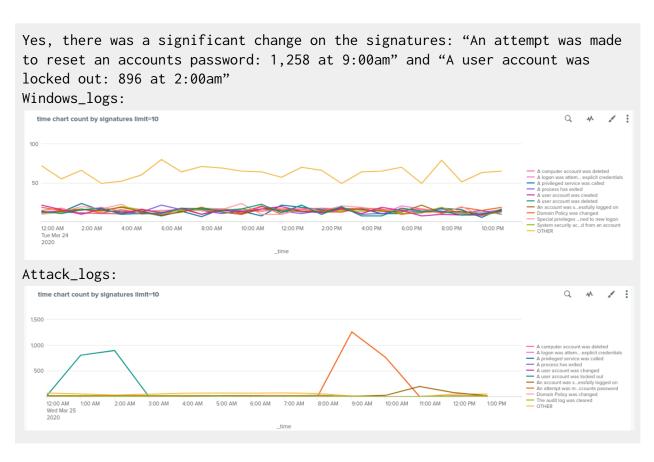
• Did you detect a suspicious volume of deleted accounts?

Yes, there was a suspicious amount of the deleted accounts but not in excessive numbers.



Dashboard Analysis for Time Chart of Signatures

Does anything stand out as suspicious?



What signatures stand out?

"An attempt was made to reset an accounts password", "A user account was locked out"

What time did it begin and stop for each signature?

A user account was locked out, started: 12:00 am - ended: 3:00 am An attempt was made to reset an account's password, started: 8:00 am - ended: 11:00 am.

• What is the peak count of the different signatures?

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"An attempt was made to reset an accounts password: 1,258"
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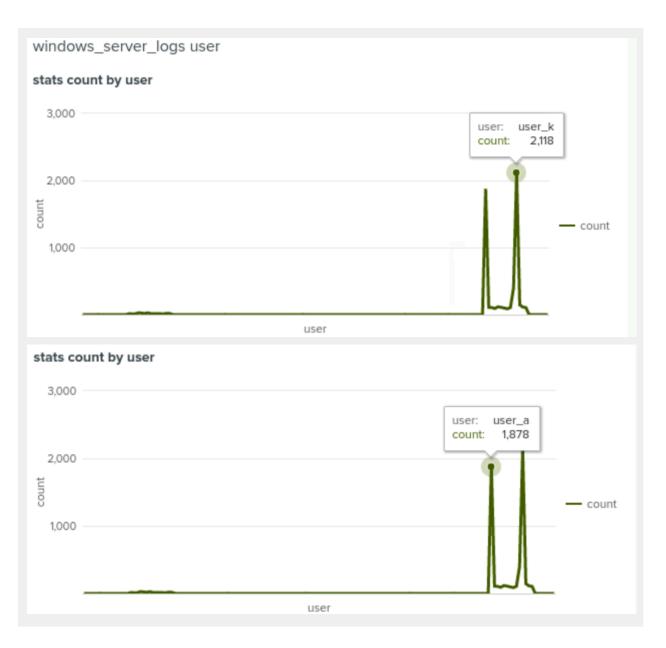
Dashboard Analysis for Users

Does anything stand out as suspicious?

There was an increase in the activity of two users. Windows_logs:





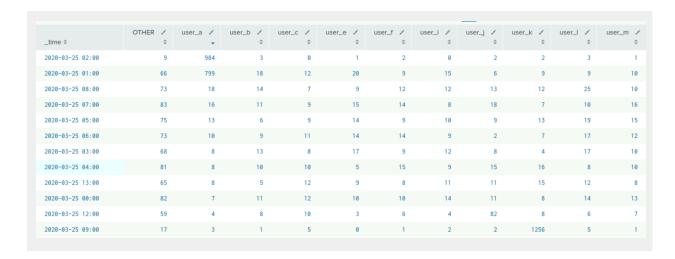


Which users stand out?

User_a and user_k

What time did it begin and stop for each user?

User_a: between 1:00 am and 2:00am. User_k: between 4:00 am and 9:00am.

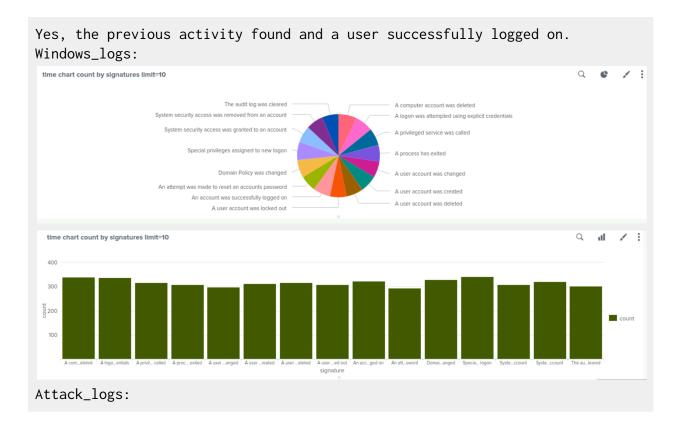


What is the peak count of the different users?

User_a: 1,878. User_k: 2,118.

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

Does anything stand out as suspicious?



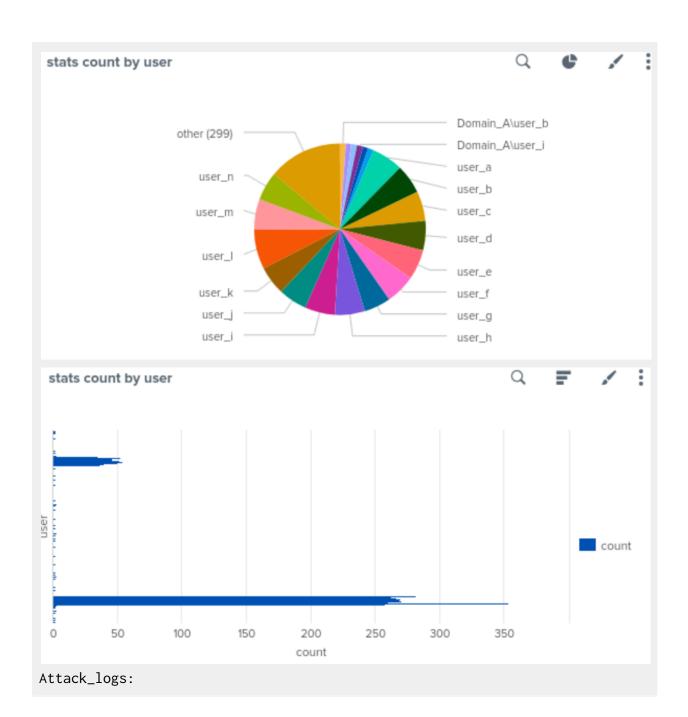


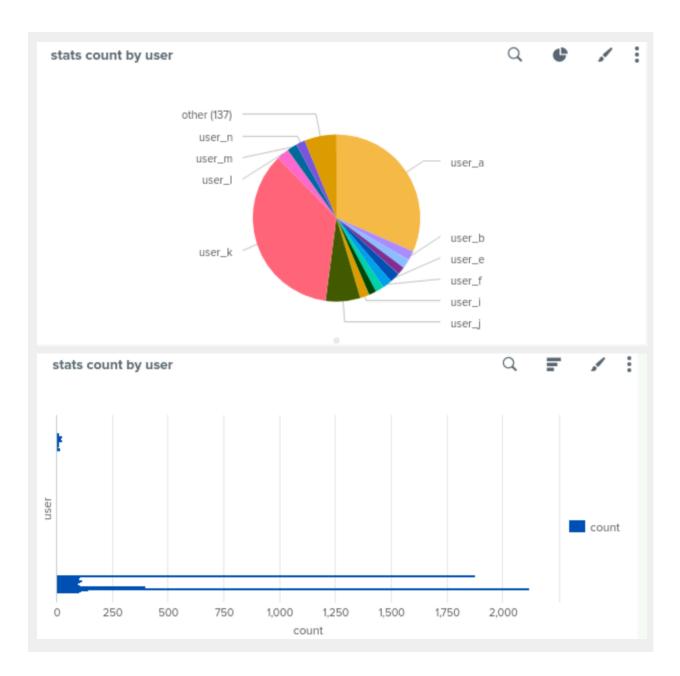
• Do the results match your findings in your time chart for signatures?

yes

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

Does anything stand out as suspicious?





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

Yes

Dashboard Analysis for Users with Statistical Charts

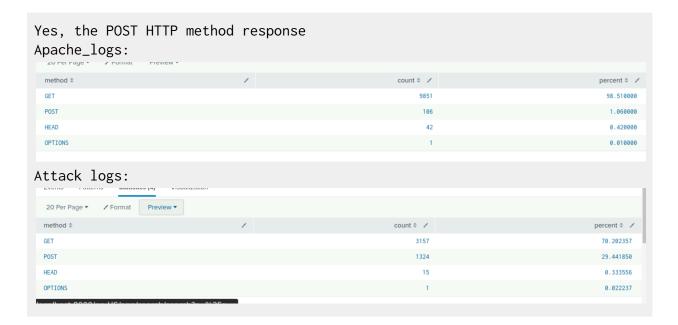
• What are the advantages and disadvantages of using this report, compared to the other user panels that you created?

The advantages of using a statistical time chart for the users is that it show you the time and date of any user and also shows the count when you need it, and the disadvantages of using a pie chart is that it does not specify date and time as an statistical chart, but the pie chart also shows any event of user that has increase.

Apache Web Server Log Questions

Report Analysis for Methods

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



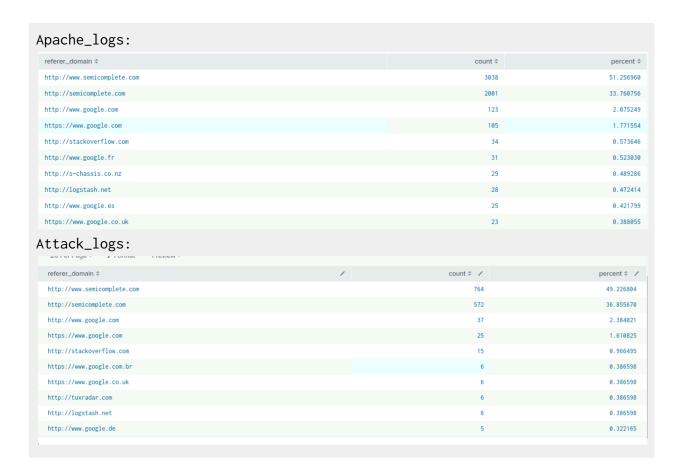
What is that method used for?

POST: is a request method to send data and updates supported by HTTP used by the world wide web.

Report Analysis for Referrer Domains

Did you detect any suspicious changes in referrer domains?

Yes there are some changes on the referrer domains on the top 10.



Report Analysis for HTTP Response Codes

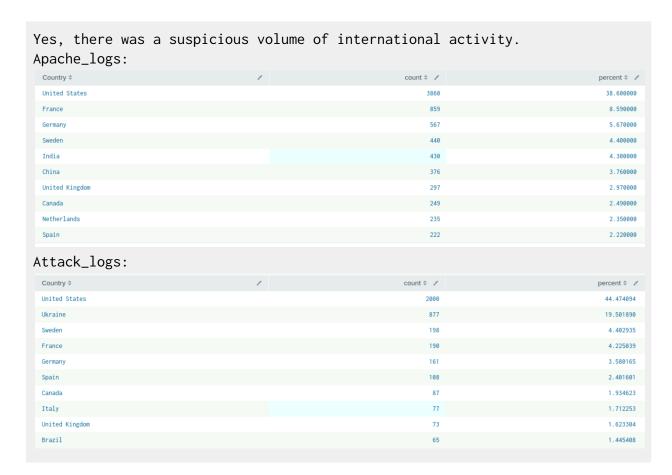
• Did you detect any suspicious changes in HTTP response codes?





Alert Analysis for International Activity

Did you detect a suspicious volume of international activity?



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

• Would your alert be triggered for this activity?

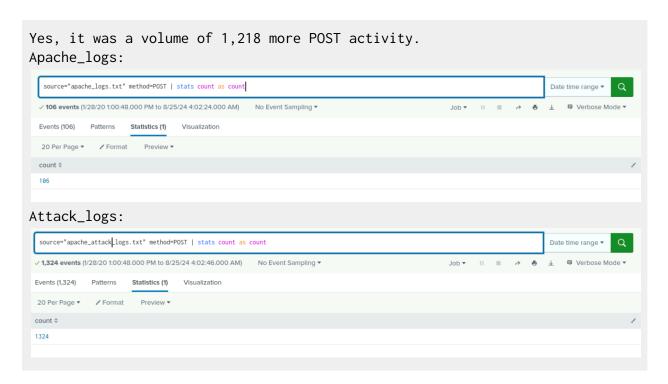
Yes, our alert baseline and threshold was set on task.

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

No, it gave us the information we were looking for.

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?

1296 at 8:00pm

When did it occur?

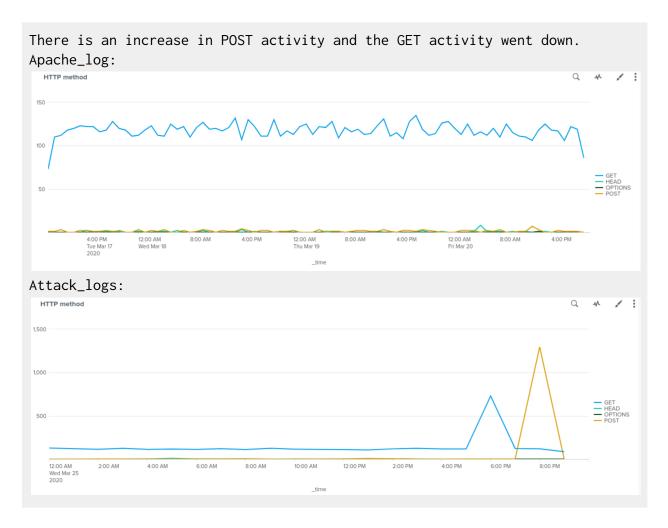
Wednesday March-25-2020

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

No, I won't change it, it was accurate.

Dashboard Analysis for Time Chart of HTTP Methods

Does anything stand out as suspicious?

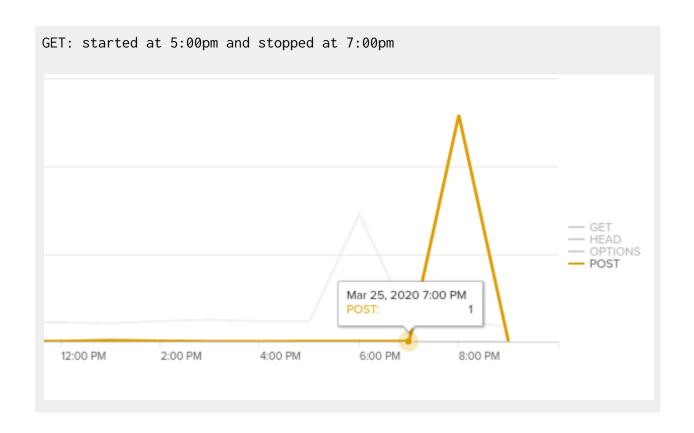


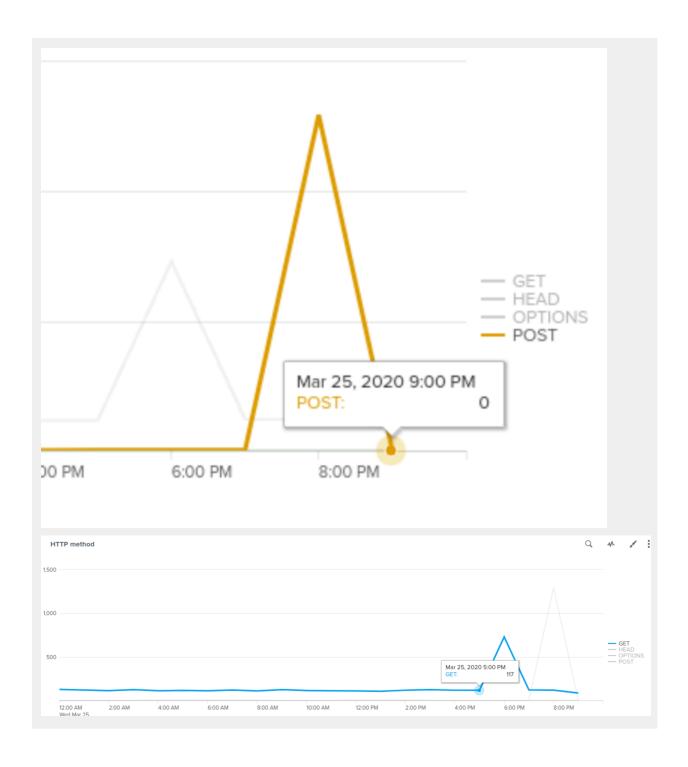
• Which method seems to be used in the attack?

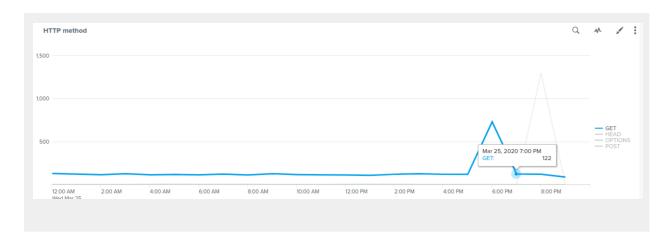
POST | GET

• At what times did the attack start and stop?

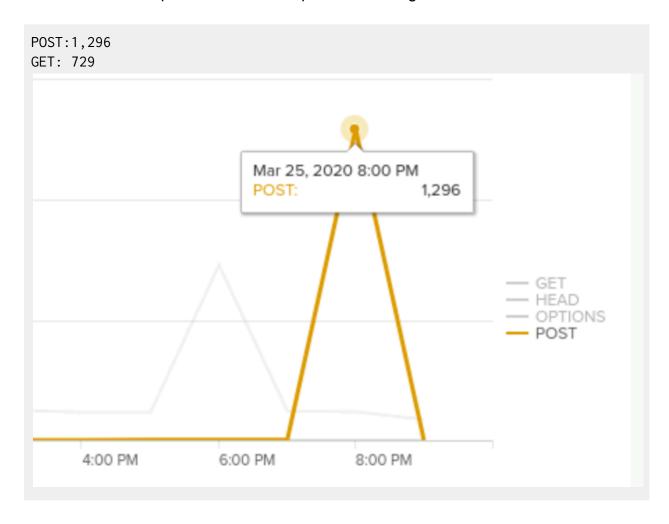
POST: started at 7:00pm and stopped at 9:00pm

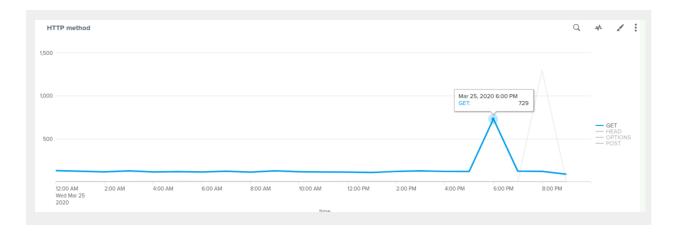






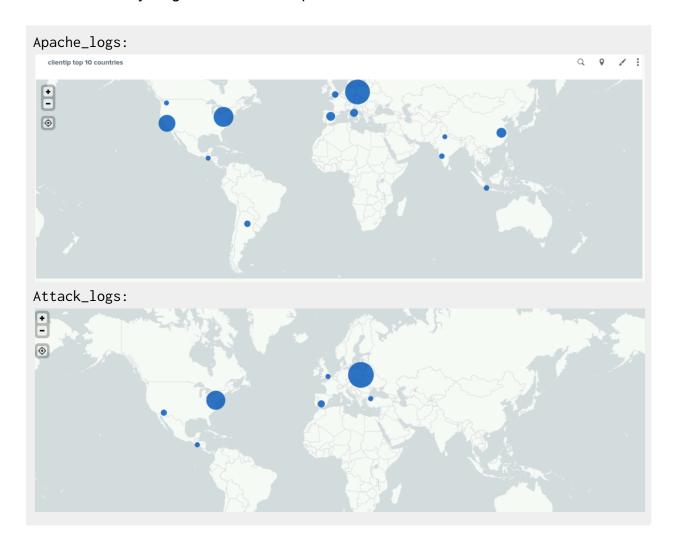
What is the peak count of the top method during the attack?





Dashboard Analysis for Cluster Map

Does anything stand out as suspicious?



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

Spain= Madrid
Morocco= Rabat
France= Paris, strasbourg
Ukraine= Kiev, Kharkiv
U.K= London
Italy= Millan
Germany= Dresden
Turkey= Istanbul
El salvador= San salvador
Russia= Moscow
Sweden= stockholm, Umea
United States=

- Arizona= Phoenix
- Kentucky= Frankfort
- Virginia= Washington, D.C
- New York
- Massachusetts= Boston

Canada= toronto

• What is the count of that city?

Spain: Madrid=2
Morocco: Rabat=1

France: Paris=1, strasbourg=3 Ukraine: Kiev=6, Kharkiv=3

U.K: London=1
Italy: Millan=1
Germany: Dresden=1
Turkey= Istanbul=1

El salvador: San salvador=1

Russia: Moscow=1

Sweden: Stockholm=3, Umea=1

United States:

Arizona: Phoenix=2Kentucky: Frankfort=1

• Virginia: Washington, D.C=4

• New York=6

• Massachusetts: Boston=1

Canada: Toronto=1

Dashboard Analysis for URI Data

Does anything stand out as suspicious?

Yes the URI_PATH Data shows suspicious activity.

• 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 potentially is doing a brute force attack.

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