

# Solution Guide: Part 2 - Defend Your SOC

## Windows Server Logs

### Report Analysis for Severity

1. Did you detect any suspicious changes in severity?
  - a. Yes. The percentages changed from:

High: 7%

Informational: 93%

New Search			
source="windows_server_logs.csv"   top status			
✓ 4,764 events (before 7/28/21 6:50:24.000 PM) No Event Sampling			
Events (4,764)	Patterns	Statistics (2)	Visualization
20 Per Page	Format	Preview	
status	count	percent	
success	4622	97.819312	
failure	142	2.980688	

to:

High: 20%

Informational: 80%

New Search			
source="windows_server_attack_logs.csv"   top severity			
✓ 5,949 events (before 8/1/21 8:07:37.000 PM) No Event Sampling			
Events (5,949)	Patterns	Statistics (2)	Visualization
20 Per Page	Format	Preview	
severity	count	percent	
Informational	4383	73.777948	
high	1111	28.222060	

1. This indicates an increase in the high severity cases.

## Report Analysis for Failed Activities

### 1. Did you detect any suspicious changes in failed activities?

#### a. Yes. The percentages changed from:

success: 97%

failure: 3%

New Search

source="windows\_server\_logs.csv" | top status

All time

✓ 4,764 events (before 7/28/21 6:50:24.000 PM) No Event Sampling

Job | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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to:

success: 98%

failure: 2%

New Search

Save As Create Table ViewClose

source="windows\_server\_attack\_logs.csv" | top status

All time

✓ 5,949 events (before 8/2/21 6:57:36.000 PM) No Event Sampling

Job || ↩ ↪ ⏏ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿

### 2. This indicates that there is not a major change in the cumulative failure of events.

## Alert Analysis for Failed Windows Activity

### Hourly Level of Failed Windows Activity

The average activity per hour is approximately six events. The threshold is 20 to avoid false positives. An email will be sent to SOC Analyst (SOC@VSI-company.com) for further investigation.

Enabled: ..... Yes. [Disable](#)

App: ..... search

Permissions: ..... Private. Owned by admin. [Edit](#)

Modified: ..... Jul 28, 2021 7:12:02 PM

Alert Type: ..... Scheduled. Hourly, at 0 minutes past the hour. [Edit](#)

Trigger Condition: .. Number of Results is > 20. [Edit](#)

Actions: ..... [1 Action](#) [Edit](#)

[Send email](#)

**i** There are no fired events for this alert.

1. There is some potential suspicious activity for failed activity between 8 a.m. and 9 a.m. on Weds, March 25th.

### Hourly Level of Failed Windows Activity

source="windows\_server\_attack\_logs.csv" status=Failure

✓ 93 events (before 8/2/21 7:12:29.000 PM) No Event Sampling

Events (35) Patterns Statistics Visualization

Format Timeline Zoom Out Zoom to Selection Deselect

1 hour per column

Mar 25, 2020 9:00 AM Mar 25, 2020 9:00 AM

1 hour

List ✓ Format 20 Per Page

Time	Event
3/25/20 8:40:38.000 AM	2020-03-25T08:40:38.000+0000, "Domain_A Domain_A", "user_l user_l", "Account Management", "ACME-002", "4724, An attempt was made to reset an accounts password, 0, Audit Failure, Security, 0x5F25, An attempt was made to reset an account's password. Subject: Security ID: Domain_A\user_l Show all 61 lines host = windows_server_attack_logs.csv_host   source = windows_server_attack_logs.csv   sourcetype = csv
3/25/20 8:40:28.000 AM	2020-03-25T08:40:28.000+0000, "Domain_A Domain_A", "user_g user_g", "Account Management", "ACME-002", "4726, A user account was deleted, 0, Audit Success, Security, 0xE05F, A user account was deleted. Subject: Security ID: Domain_A\user_g Show all 67 lines host = windows_server_attack_logs.csv_host   source = windows_server_attack_logs.csv   sourcetype = csv
3/25/20 8:40:14.000 AM	2020-03-25T08:40:14.000+0000, "Domain_A, user_a", "ACME-002", "4689, A process has exited, 0, Audit Success, Security, 0x6C10, A process has exited. Subject: Security ID: Domain_A\user_a

2. The count of activity is 35 events during this hour, A privileged service was called, where the user account was deleted, Domain Policies were changed, A user account was created, an attempt was made to reset an accounts password, and a computer account was deleted.

## Alert Analysis for Successful Logons

### Hourly count of the Signature an Account was Successfully Logged ON

The average activity per hour is approximately 12 events. The threshold of 30 is set for successfully logged on. An email will be sent to SOC Analyst (SOC@VSI-company.com) for an alert of the target met.

Enabled: ..... Yes. [Disable](#)

App: ..... search

Permissions: ..... Private. Owned by admin. [Edit](#)

Modified: ..... Jul 28, 2021 7:22:25 PM

Alert Type: ..... Scheduled. Hourly, at 0 minutes past the hour. [Edit](#)

Trigger Condition: .. Number of Results Is > 30. [Edit](#)

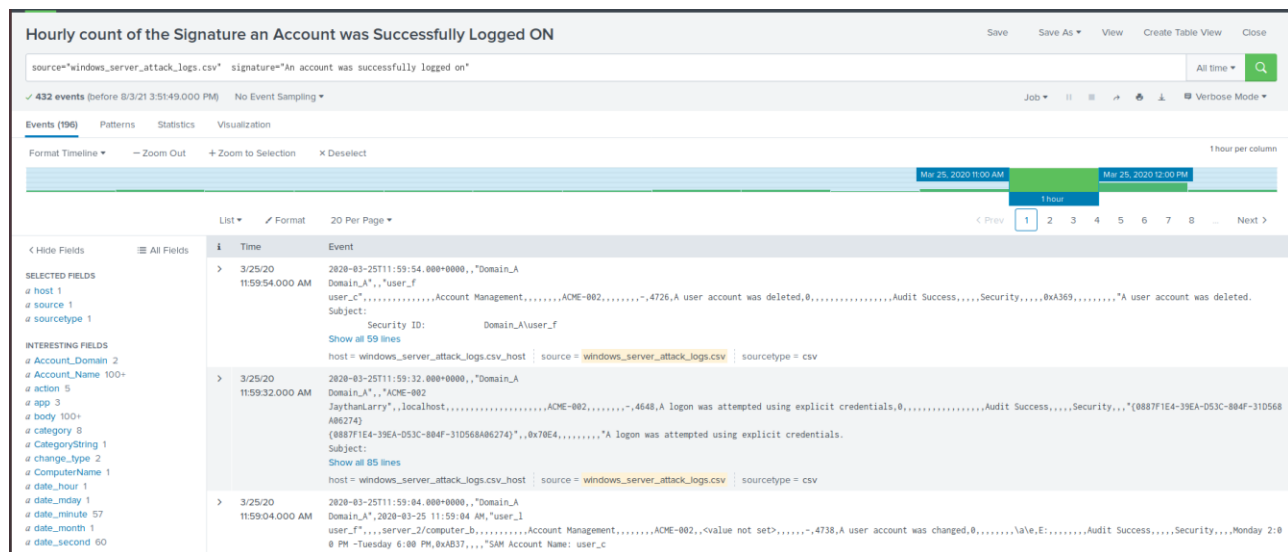
Actions: ..... 1 Action

[Edit](#)

[Send email](#)

There are no fired events for this alert.

1. There is some potential suspicious activity for successful logons activity between 11 a.m and 12 p.m. on Weds, March 25th.



2. The count of activity is 196 between 11 a.m. and 12 p.m.
3. The primary user logging in is user\_j.



4. Yes, it would have alerted the SOC Analyst of the suspicious logons.
5. No, it is set appropriately for the hourly settings, it would have also triggered an alert for the activity for the second hour from 12 p.m. to 1 p.m. on the same day.

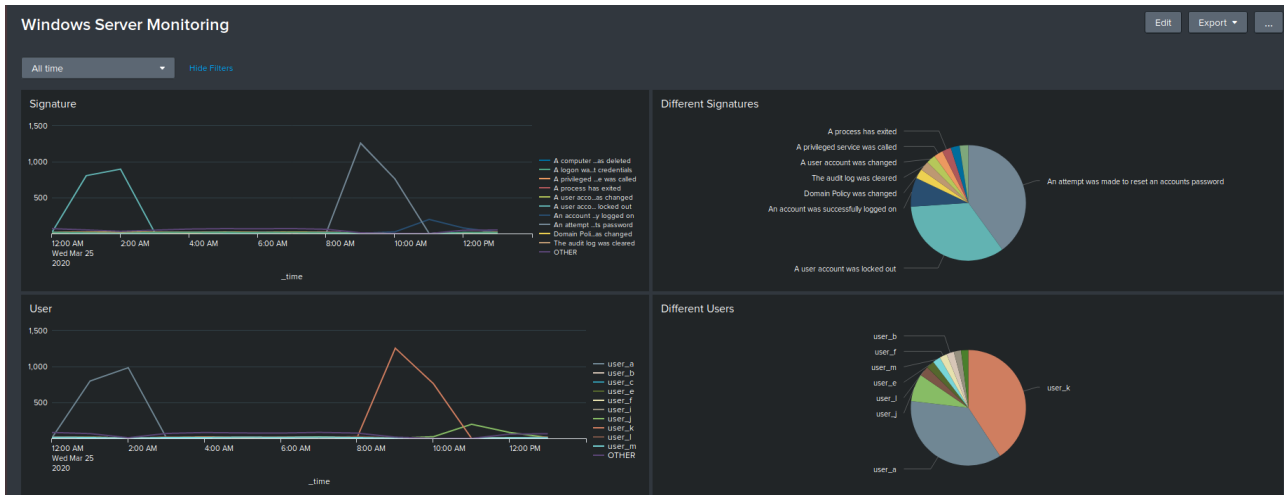
Did you detect a suspicious volume of deleted accounts?

**1. There was no suspicious activity of deleted accounts.**

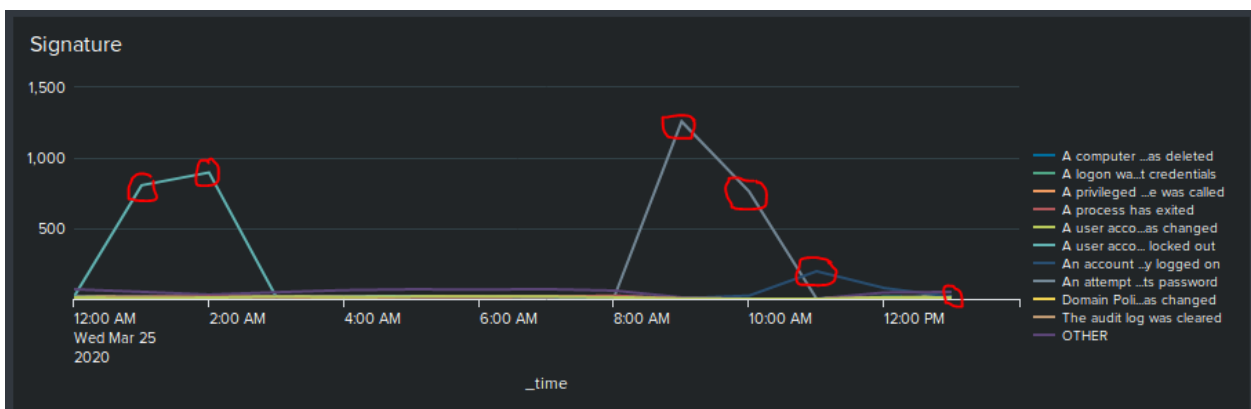
Ketan Vithal Patel

## Dashboard Analysis for Time Chart of Signatures

- Does anything stand out as suspicious? What signatures stand out?
  - Yes, the signatures that have suspicious activity are: An attempt was made to reset a users password (39.955%), A user account was locked out (34.003%), and An account was successfully logged on (8.111%).**

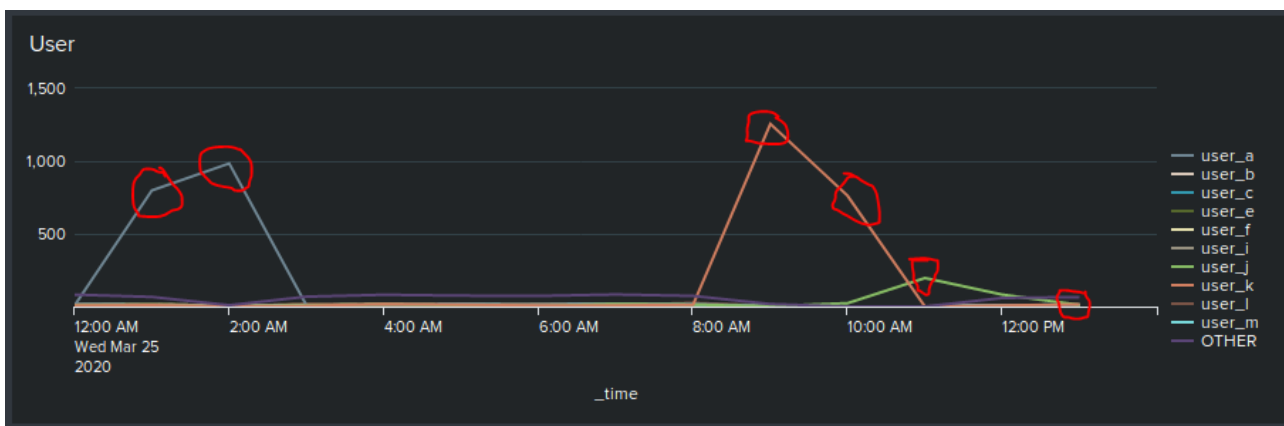


- What time did it start and stop for each signature? What is the peak count of the different signatures?
  - A user account was locked out: Started around 1 a.m. and ended at 3 a.m. on March 25th. The peak count was 896, and the total for the two hours was  $(805 + 896 = 1701)$ .**
  - An attempt was made to reset a users password: Started around 9 a.m. and ended at 11 a.m. on March 25th. The peak count was 1,258, and the total for the two hours was  $(1258 + 761 = 2019)$**
  - The account was successfully logged on: Started around 11 a.m. and ended at 1 p.m. on March 25th. The peak count was 196, and the total for the two hours was  $(196 + 77 = 273)$ .**



## Dashboard Analysis for Users

- Does anything stand out as suspicious? Which users stand out?
  - Yes, the users that have suspicious activity are users A, K, and J.**
- What time did it begin and stop for each user? What is the peak count of the different user?
  - User A: Started around 1 a.m. and ended at 3 a.m. on March 25th. Peak count was 984, and the total for the two hours was  $(799 + 984 = 1783)$ .**
  - User K: Started around 9 a.m. and ended at 11 AM on March 25th. Peak count was 1,256, and the total for the two hours was  $(1256 + 761 = 2017)$ .**
  - User J: Started around 11 a.m. and ended at 1 p.m. on March 25th. Peak count was 196, and the total for the two hours was  $(196 + 82 = 278)$ .**



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

- All Charts are showing the same information as above for the Signatures.**

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

- All Charts are showing the same information as above for the Users.**

## Dashboard Analysis for Users with Statistical Chart

- What would be the advantage/disadvantage of using this report, compared to the other user panels you created?
  - There is only one advantage of the stats chart, as it will only give the total count of the users activity or the percentage of the activity. However, the disadvantage of the stats chart compared to a chart will show a cumulative perspective, while a time chart shows the suspicious activity over a more specific, and shorter time frame.**

# Apache WebServer Logs

## Report Analysis for Methods

1. Did you detect any suspicious changes in HTTP methods? If so, which one?
  - **Yes, a suspicious change in the HTTP POST method was raised from 1% to 29%.**

**HTTP methods**  
A table of the different HTTP methods (GET, POST, HEAD, etc).

[All time](#)

✓ 10,000 events (before 7/31/21 8:02:44.000 PM)

4 results 20 per page

method	count	percent
GET	9851	98.510000
POST	106	1.060000
HEAD	42	0.420000
OPTIONS	1	0.010000

**HTTP methods**  
A table of the different HTTP methods (GET, POST, HEAD, etc).

[All time](#)

✓ 4,497 events (before 8/3/21 6:39:17.000 PM)

4 results 20 per page

method	count	percent
GET	3157	70.282357
POST	1324	29.441850
HEAD	15	0.333556
OPTIONS	1	0.022237

2. What is that method used for?
  - **POST is used to submit or update information to a web server.**

## Report Analysis for Referrer Domains

1. Did you detect any suspicious changes in referrer domains?
  - **There were no major suspicious referrers during the attack. Only minor changes to the first two domains by a couple of percentages.**



## Report Analysis for HTTP Response Codes

1. Did you detect any suspicious changes in HTTP response codes?

- **There are several small changes, but the most prominent is the 404 response code, which increased from 2% to 15%. The 200 response code went down from 91% to 83%.**

The Count of the HTTP Response Codes			
Count of the HTTP response codes			
All time			
✓ 10,000 events (before 8/1/21 4:32:50.000 PM)			
8 results 20 per page			
status	count	percent	
200	9126	91.260000	
304	445	4.450000	
404	213	2.130000	
301	164	1.640000	
206	45	0.450000	
500	3	0.030000	
416	2	0.020000	
403	2	0.020000	

The Count of the HTTP Response Codes			
Count of the HTTP response codes			
All time			
✓ 4,497 events (before 8/3/21 7:05:23.000 PM)			
7 results 20 per page			
status	count	percent	
200	3746	83.299978	
404	679	15.098955	
304	36	0.800534	
301	29	0.644874	
206	5	0.111185	
500	1	0.022237	
403	1	0.022237	

## Alert Analysis for International Activity

1. Did you detect any suspicious volume of international activity? If so, what was the count of the hour it occurred in?
  - **There was activity in Ukraine between 8 p.m. and 9 p.m. on Weds, March 25th, and had a count of 935 events.**
  - **Yes, as the threshold was set at 200, so this activity would be triggered as part of the alert.**
  - **No, as it's above the activity set threshold.**

### Baseline and Threshold for hourly count of activity from a country other than the United States.

The average activity per hour is approximately 80. There for threshold is set at 200, an email will be sent to SOC Analyst (SOC@VSI-company.com) for further actions to implemented.

Enabled: ..... Yes. [Disable](#)

App: ..... search

Permissions: ..... Private, Owned by admin. [Edit](#)

Modified: ..... Aug 1, 2021 4:46:20 PM

Alert Type: ..... Scheduled, Hourly, at 0 minutes past the hour. [Edit](#)

Trigger Condition: .. Number of Results is > 200. [Edit](#)

Actions: ..... [1 Action](#) [Edit](#)


[Send email](#)

 There are no fired events for this alert.







#### Baseline and Threshold for hourly count of activity from a country other than the United States.

Save Save As View Create Table View Close

source="apache\_attack\_logs.txt" | iplocation clientip | where Country!="United States"

All time 

✓ 2,470 events (before 8/3/21 7:08:59.000 PM) No Event Sampling

Job       Verbose Mode

Events (935) Patterns Statistics Visualization

Format Timeline Zoom Out Zoom to Selection X Deselect

1 hour per column

Mar 25, 2020 8:00 PM Mar 25, 2020 9:00 PM

1 hour

List Format 20 Per Page

< Prev 1 2 3 4 5 6 7 8 ... Next >

< Hide Fields All Fields

SELECTED FIELDS

host 1

source 1

i	Time	Event
>	3/25/20 8:05:58.000 PM	194.185.145.147 - - [25/Mar/2020:20:05:59 +0000] "POST /VSI_Account_login.php HTTP/1.1" 200 65748 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.2; SV1; .NET CLR 2.0.50727.987787; InfoPath.1)" host = apache_attack_logs.txt_host   source = apache_attack_logs.txt   sourcetype = access_combined

## Alert Analysis for HTTP POST Activity

1. Did you detect any suspicious volume of HTTP POST activity? If so, what was the count of the hour it occurred in and when did it occur?
  - **There was a spike in POST method activity between 8 p.m. and 9 p.m. on Weds, March 25th, and had a count of 1,296 events.**
  - **No, the threshold set is at 15 counts, this would have been triggered.**

### Baseline and Threshold for hourly count of the HTTP POST method

The average activity per hour is approximately two. The Threshold is set for 15 for the HTTP POST method, an alert email will be sent to SOC Analyst (SOC@VSI-company.com) for further investigation.

Enabled: ..... Yes. [Disable](#)  
App: ..... search  
Permissions: ..... Private. Owned by admin. [Edit](#)  
Modified: ..... Aug 1, 2021 6:59:11 PM  
Alert Type: ..... Scheduled. Hourly, at 0 minutes past the hour. [Edit](#)

Trigger Condition: .. Number of Results is > 15. [Edit](#)  
Actions: ..... [1 Action](#) [Edit](#)  
[Send email](#)

There are no fired events for this alert.

## Dashboard Analysis for Time Chart of HTTP Methods

- Does anything stand out as suspicious?
  - **Yes, there were suspicious activities of the POST and GET method.**
- What was the method that seems to be used in the attack? What time did it begin and end, and what was the peak count?
  - **The POST method was used, starting at 8 p.m. and ending at 9 p.m. The peak count was 1,296.**
  - **THE GET method was used, starting at 6 p.m. and ending at 7 p.m. The peak count was 729.**

## Dashboard Analysis for Cluster Map

- Does anything stand out as suspicious? What new country, city on the map has a high volume of activity?
  - **Yes, there is suspicious activity in Ukraine.**
- What is the count of that country, city?
  - **When zoomed in, we can see the cities in Ukraine are:**
    - **Kiev: Count of 439**
    - **Kharkiv: Count of 433**
    - **Lvov: 5**

## Dashboard Analysis for URI Data

- Does anything stand out as suspicious? What URI is being hit the most?
  - **Yes, there is suspicious activity against the main VSI logon page: [/VSI\\_Account\\_logon.php](#) (count of 1323).**
- Based on the URI being accessed, what could the attacker potentially be doing?
  - **The attacker may be trying to brute force the VSI logon page.**

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