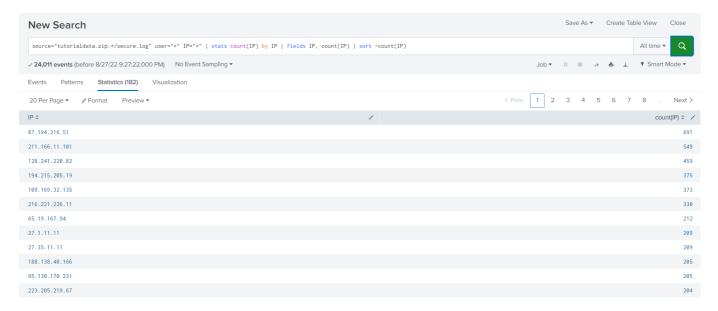
Activity 3: Log Analysis

Part I. Can you find people trying to break into the servers?

1. How many hackers are trying to get access to our servers? And how many attempts are there? Explain/define how you count distinct hackers.

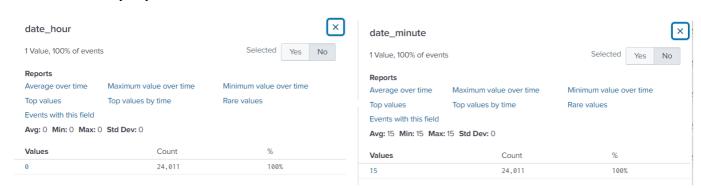
We will define the hackers as the people who are trying to get into the servers with invalid usernames. Distinct hackers are recognized by distict IP addresses.

From this search query, there are 182 hackers and 24,011 attempts.



2. What time do hackers appear to try to hack our servers?

00.15 AM of every day available in the data.



3. Which server (mailsv, www1, www2, www3) sees the most attempts?

www1. However, the percentage of attacks on each server is roughly the same.

host



4 Values, 100% of events

Selected Yes

Reports

Top values Top values by time Rare values

Events with this field

Values	Count	%	
www1	6,355	26.467%	
www3	5,982	24.914%	
mailsv	5,872	24.455%	
www2	5,802	24.164%	

4. What is the most popular account that hackers use to try to break in?

administrator.

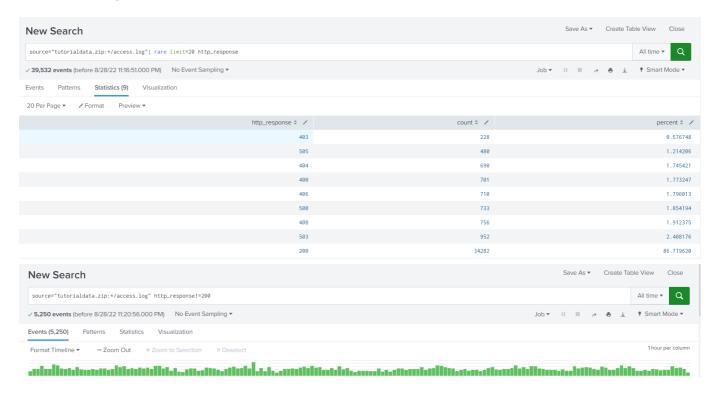
user

>100 Values, 100% of events		Selected Yes No	
Reports Top values Events with this field	Top values by tir	me	Rare values
Top 10 Values		Count	%
administrator		1,020	4.248%
db		965	4.019%
admin		938	3.906%
operator		923	3.844%
mailman		752	3.132%
irc		644	2.682%
email		626	2.607%
sys		586	2.44%
system		581	2.42%
testing		550	2.291%

Part II. Sensitive Files on Web Servers

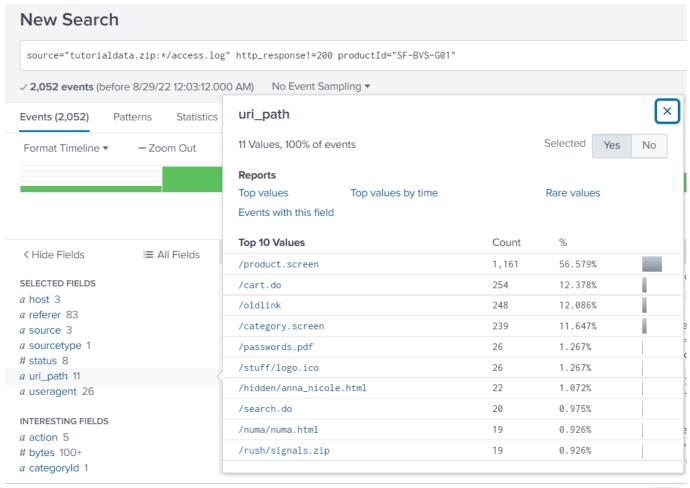
5. Can you find attempts to get access to sensitive information from our web servers? How many attempts were there?

We consider requests that return http responses in the 400-500 range to be an attempt. From the data, there are 5,250 attempts.



6. What resource/file are hackers looking for?

They are mainly looking for productId SF-BVS-G01 and SF-BVS-01, using these URI paths.



productld

×

16 Values, 45.867% of events

Selected



Reports

Top values Top values by time Rare values

Events with this field

Top 10 Values	Count	%
SF-BVS-G01	2,052	85.216%
SF-BVS-01	90	3.738%
WC-SH-G04	30	1.246%
DB-SG-G01	28	1.163%
SC-MG-G10	27	1.121%
MB-AG-T01	25	1.038%
FS-SG-G03	21	0.872%
WC-SH-A01	21	0.872%
DC-SG-G02	20	0.83%
WC-SH-A02	18	0.748%

Part III. Are there bots crawling our websites?

7. Can you find any bots crawling our websites?

Yes, 2 googlebots

Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)	29	1.413255
Googlebot/2.1 (http://www.googlebot.com/bot.html)	29	1.413255

8. What are they doing on the site?

The bots are browsing the products and adding them to cart. This image is an example of the events.

i	_time	useragent *	referer \$	uri_path \$	status \$
	8:17:58.000 PM	http://www.googlebot.com/bot.html)			
>	8/22/21 8:17:57.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/product.screen?productId=SC-MG-G10	/category.screen	200
>	8/22/21 8:17:57.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/category.screen?categoryld=NULL	/product.screen	408
>	8/22/21 8:17:56.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/oldlink?itemId=EST-12	/category.screen	200
>	8/22/21 8:17:55.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/oldlink?itemId=EST-18	/oldlink	200
>	8/22/21 8:17:54.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/cart.do?action=view&itemId=EST-15&productId=BS-AG-G09	/product.screen	200
>	8/22/21 8:17:53.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/category.screen?categoryId=SIMULATION	/category.screen	200
>	8/22/21 8:17:52.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.buttercupgames.com/product.screen?productId=FI-AG-G08	/product.screen	200
>	8/22/21 8:17:52.000 PM	Googlebot/2.1 (http://www.googlebot.com/bot.html)	http://www.google.com	/cart.do	200