Cybersecurity

Module 19 Challenge Submission File

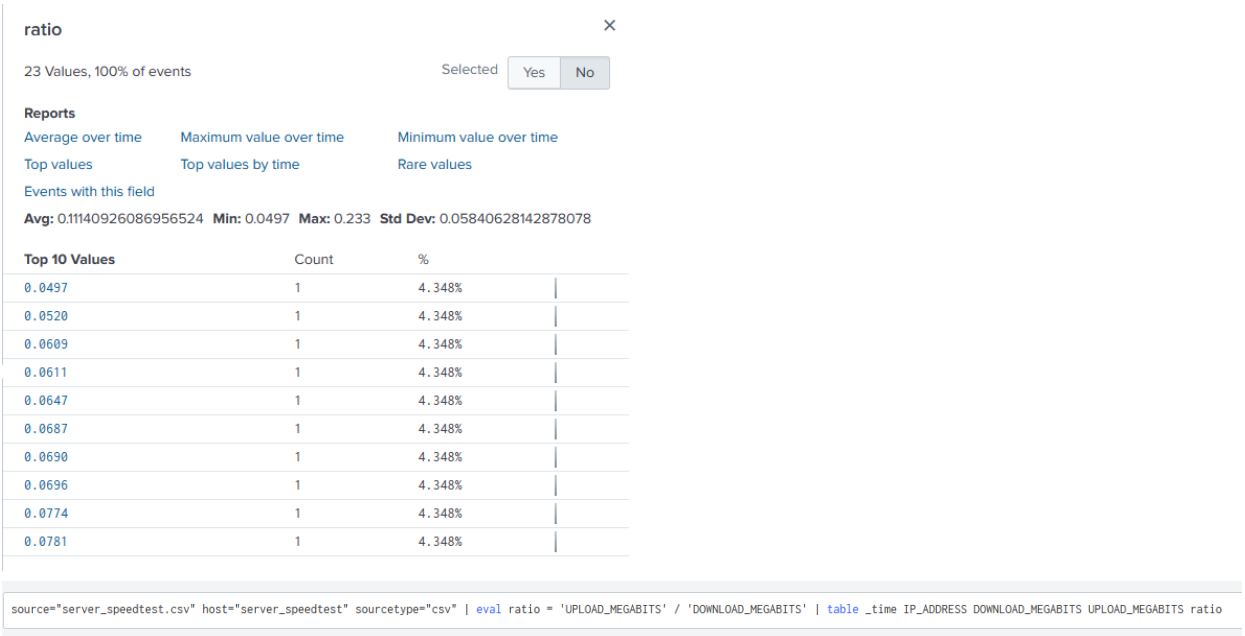
Let's Go Splunking!

Make a copy of this document to work in, and then respond to each question below the prompt. Save and submit this completed file as your Challenge deliverable.

Step 1: The Need for Speed

2. Using the `eval` command, create a field called `ratio` that shows the ratio between the upload and download speeds.

```
source="server_speedtest.csv" host="server_speedtest" sourcetype="csv" | eval ratio = 'UPLOAD_MEGABITS' / 'DOWNLOAD_MEGABITS'
```




```
source="server_speedtest.csv" host="server_speedtest" sourcetype="csv" | eval ratio = 'UPLOAD_MEGABITS' / 'DOWNLOAD_MEGABITS' | table _time IP_ADDRESS DOWNLOAD_MEGABITS UPLOAD_MEGABITS ratio
```

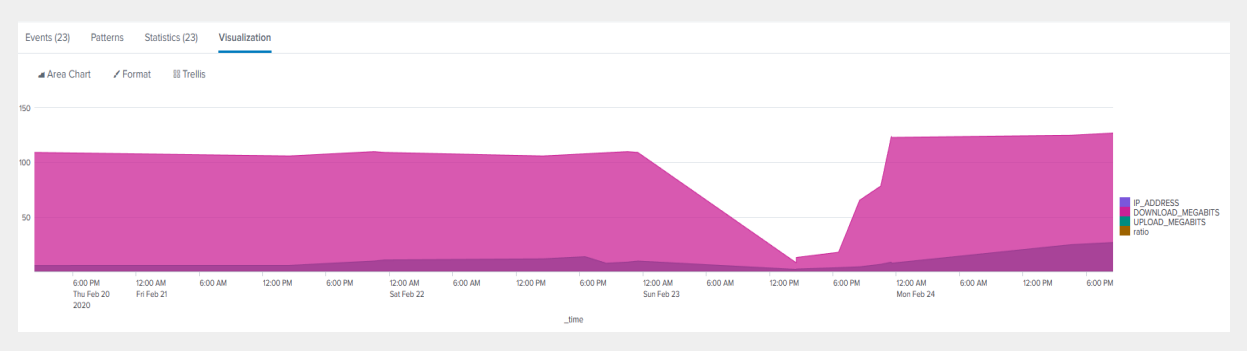
1. Based on the report you created, what is the approximate date and time of the attack?

```
02/23/2020 at 2:30 PM.
```

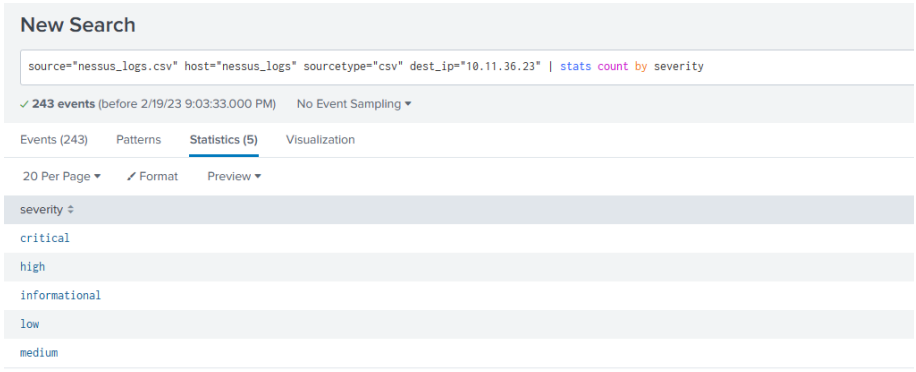
2. How long did it take your systems to recover?

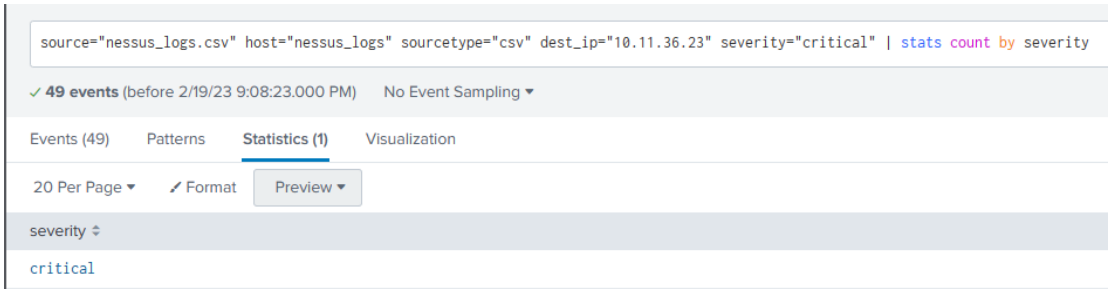
```
11:30 PM or 9 hours until speeds recovered.
```

Provide a screenshot of your report:

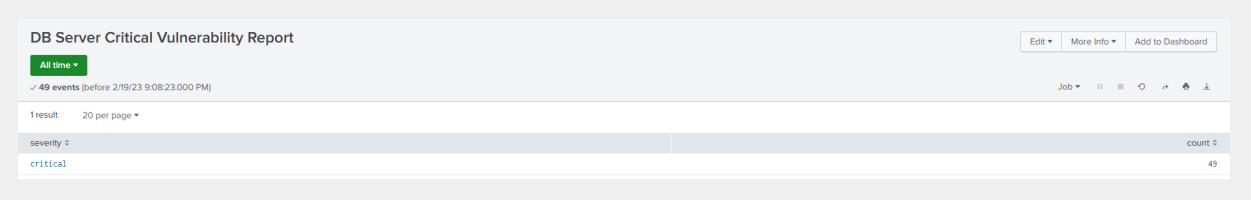


Step 2: Are We Vulnerable?

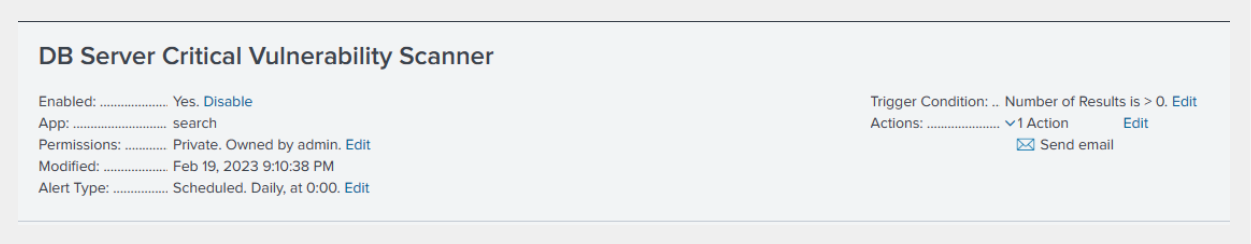




Provide a screenshot of your report:



Provide a screenshot showing that the alert has been created:

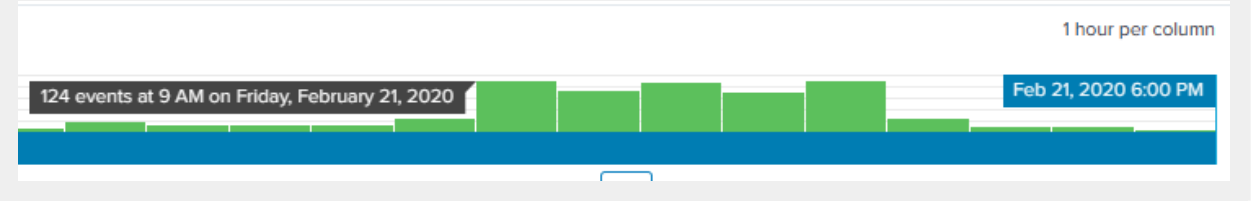


Step 3: Drawing the (Base)line

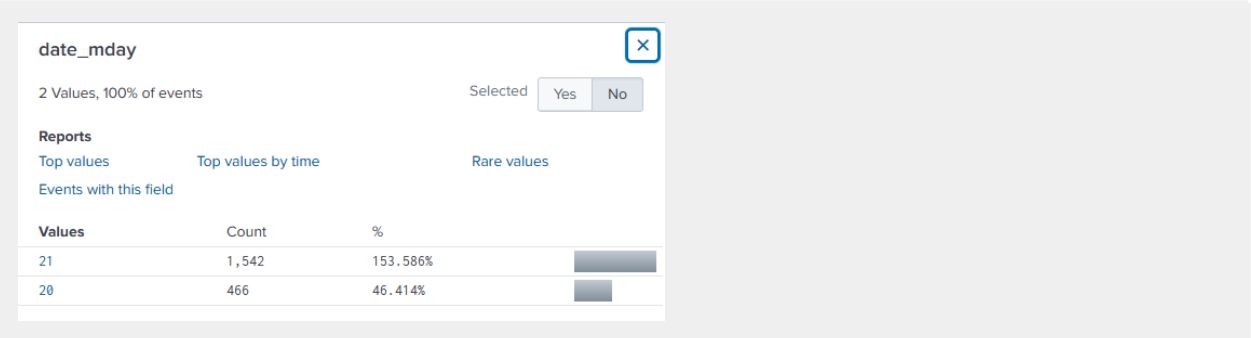
```
source="Administrator_logs.csv" host="Administrator_logs" sourcetype="csv" name="An account failed to log on"
```

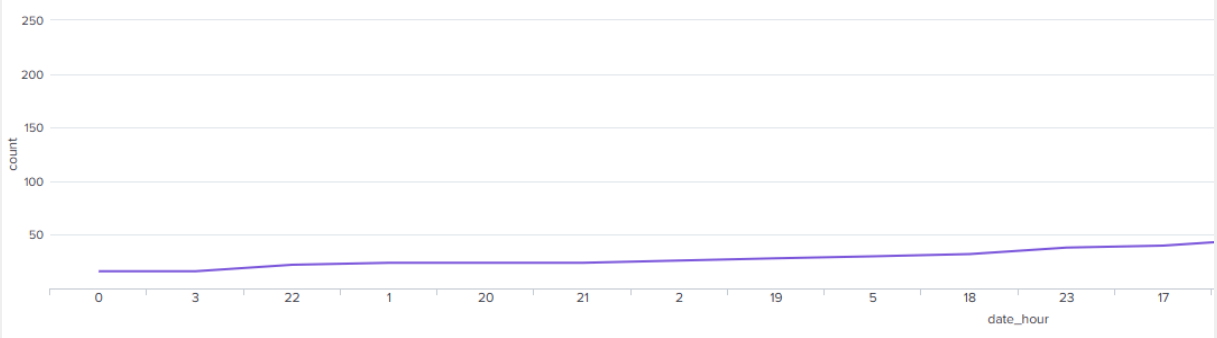
1. When did the brute force attack occur?

```
02/21/2020 from 9AM - 1PM.
```



2. Determine a baseline of normal activity and a threshold that would alert if a brute force attack is occurring:





Using this data, we can determine that less than 50 an hour or less than 500 a day would work as a baseline. Since the response needs to be swift, we will use the hourly baseline to set up our alert.

3. Provide a screenshot showing that the alert has been created: