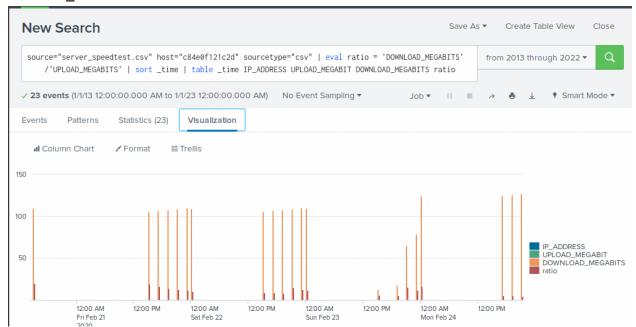
Step 1: Need for Speed

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

source ="statsreport.csv" | eval ratio = 'DOWLOAD_MEGABITS'Create a report using the Splunk's table command to display the following fields in a statistics report:

_time IP_ADDRESS DOWNLOAD_MEGABITS UPLOAD MEGABITS



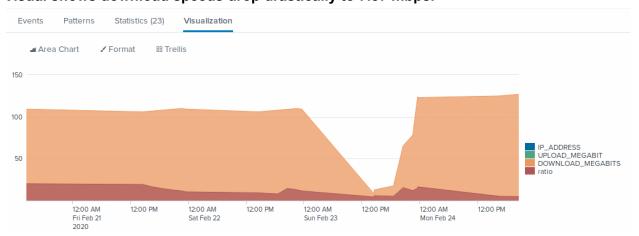
source ="statsreport.csv" | eval ratio = 'DOWLOAD_MEGABITS'|'UPLOAD_MEGABITS' | sort_time | table _time IP_ADDRESS UPLOAD_MEGABITS DOWNLOAD_MEGABITS ratio

2020-02-23 20:30:00	198.153.194.2					65.34	15.4
2020-02-23 23:30:00	198.153.194.2					123.91	14.6
2020-02-22 20:30:00	198.153.194.2					108.91	14.5
2020-02-21 18:30:00	198.153.194.2					107.91	14.4
2020-02-22 22:30:00	198.153.194.2					109.91	12.9
2020-02-21 20:30:00	198.153.194.1					108.91	12.8
2020-02-23 22:30:00	198.153.194.1					78.34	12.0
2020-02-21 22:30:00	198.153.194.1					109.91	11.6
2020-02-22 23:30:00	198.153.194.2					109.16	11.5
2020-02-21 23:30:00	198.153.194.1					109.16	10.39
2020-02-22 14:30:00	198.153.194.1					105.91	9.202
2020-02-22 16:30:00	198.153.194.2					106.91	8.546
2020-02-22 18:30:00	198.153.194.2					107.91	7.987
2020-02-23 14:30:00	198.153.194.2					12.76	5.83
2020-02-23 18:30:00	198.153.194.2					17.56	5.12
2020-02-24 16:30:00	198.153.194.1					124.91	5.096
_time \$	IP_ADDRESS \$	1	UPLOAD_MEGABIT \$	1	,	DOWNLOAD_MEGABITS \$ /	ratio 🗸 📝
2020-02-24 18:30:00	198.153.194.2					125.91	4.936
2020-02-24 20:30:00	198.153.194.2					126.91	4.787
2020-02-23 14:30:00	198.153.194.1					7.87	4.30

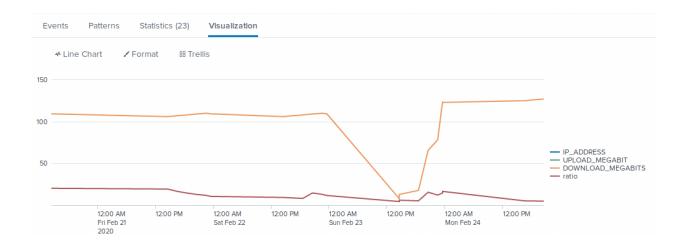
Answer the following questions:

Based on the report created, what is the approximate date and time of the attack? 14:30 on 2/23/2020.

Visual shows download speeds drop drastically to 7.87 mbps.



How long did it take your systems to recover? It did not recover until 23:30, making it 9 hours until full recovery.

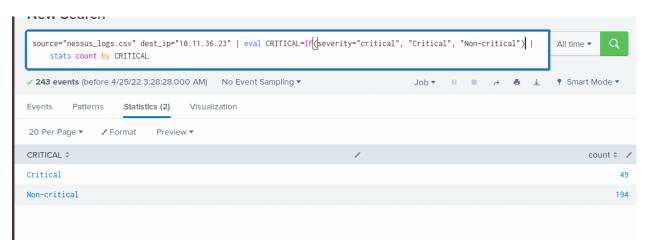


Step 2: Are We Vulnerable?

Create a report that shows the count of critical vulnerabilities from the customer database server.

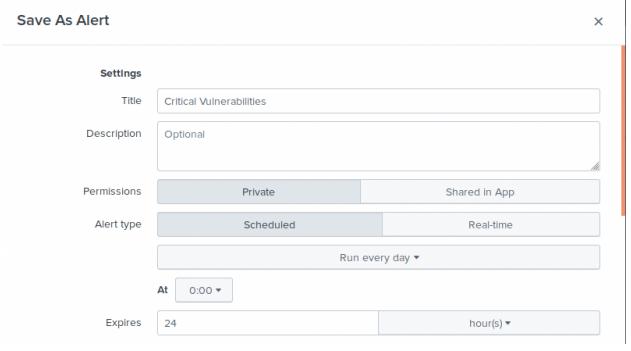
The database server IP is 10.11.36.23.

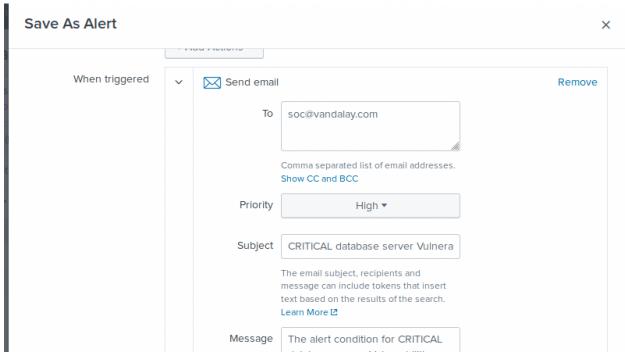
The field that identifies the level of vulnerabilities is severity.



Source="nessus_logs.csv" dest_ip="10.11.36.23" | eval CRITICAL=IF(severity="critical", "CRITICAL", "Non-critical") | stats count by CRITICAL

Build an alert that monitors every day to see if this server has any critical vulnerabilities. If a vulnerability exists, have an alert emailed to soc@vandalay.com.





Critical Vulnerabilities

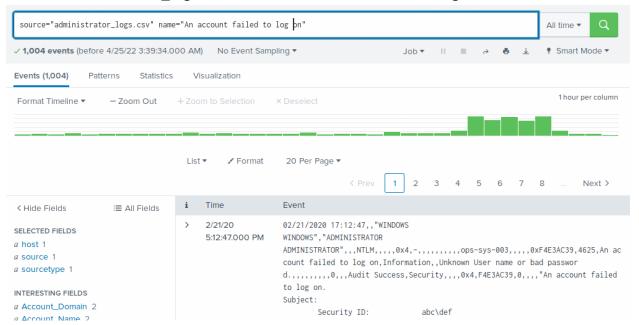
Trigger Condition: .. Number of Results is > 0. Edit
Actions: ∨1 Action Edit

Send email

Step 3: Drawing the (base)line

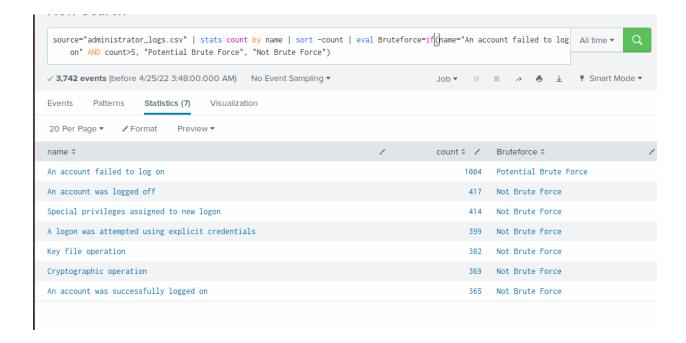
When did the brute force attack occur?

source="administrator_logs.csv" name="An account failed to log on"

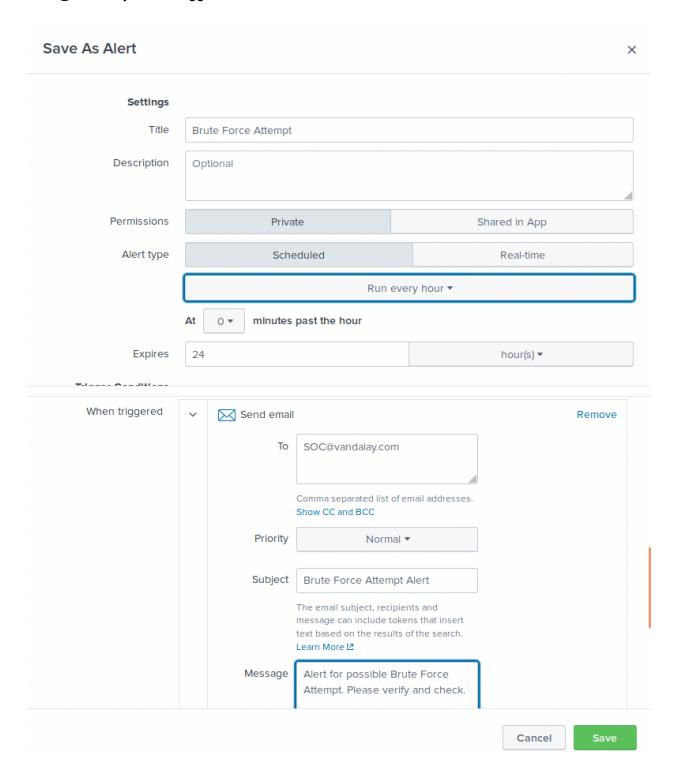


Determine a baseline of normal activity and a threshold that would alert if a brute force attack is occurring.

The attack occurred from 9AM - 2 PM on 2/21/2020. The normal baseline ranges from 6 - 34. We can set a safe baseline above 40 failed login attempts as "Brute Force" attempt/attack.



Design an alert to check the threshold every hour and email the SOC team at SOC@vandalay.com if triggered.



Brute Force Attempt

Enabled: Yes. Disable

App: search

Permissions: Private. Owned by admin. Edit

Modified: Apr 25, 2022 3:51:38 AM

Alert Type: Scheduled. Hourly, at 0 minutes past the hour.

Edit

Trigger Condition: .. Number of Results is > 0. Edit

Actions: V1 Action Edit

Send email