

# 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**

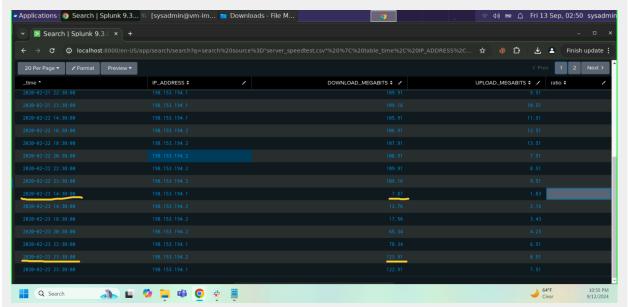
1. Based on the report you created, what is the approximate date and time of the attack?

The approximate date and time of the attack was February 23, 2020 at 14:30:00. This was when an obvious and significant drop in megabits occurred.

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

The download megabits returned to more normal levels at 23:30:00 on Feburary 23, 2020 translating to about 9 total hours of download speed slowness.

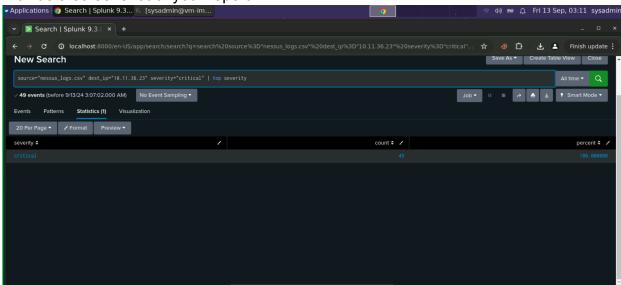
Provide a screenshot of your report:



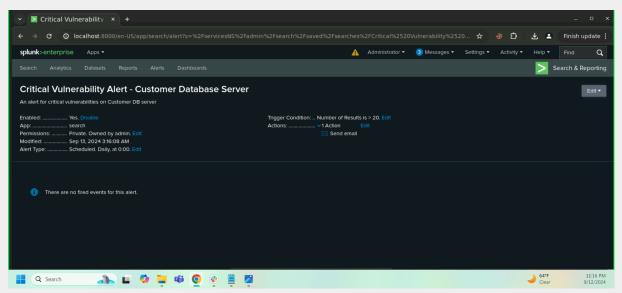
Screenshot of the first instance of a significant drop in megabits and the window of time it took to recover back to normal levels.

#### Step 2: Are We Vulnerable?

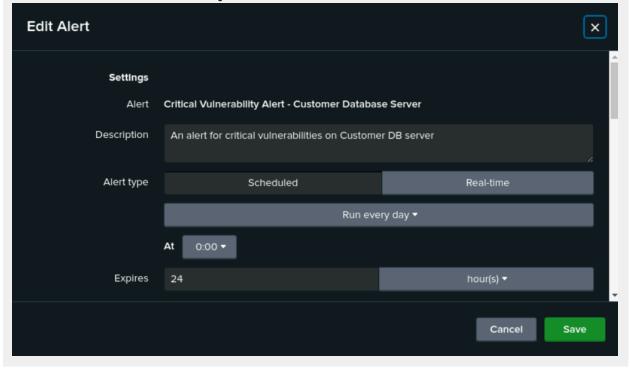
Provide a screenshot of your report:

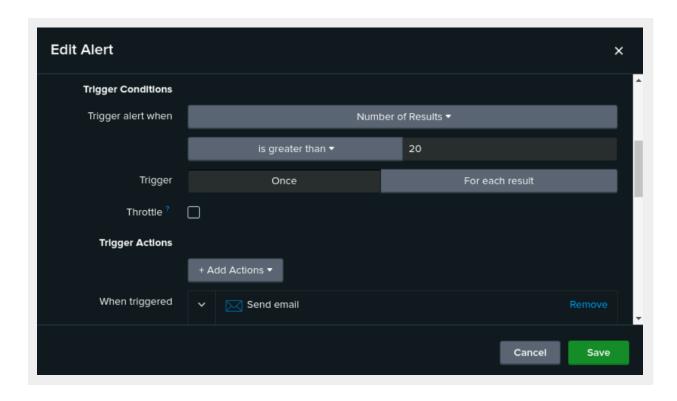


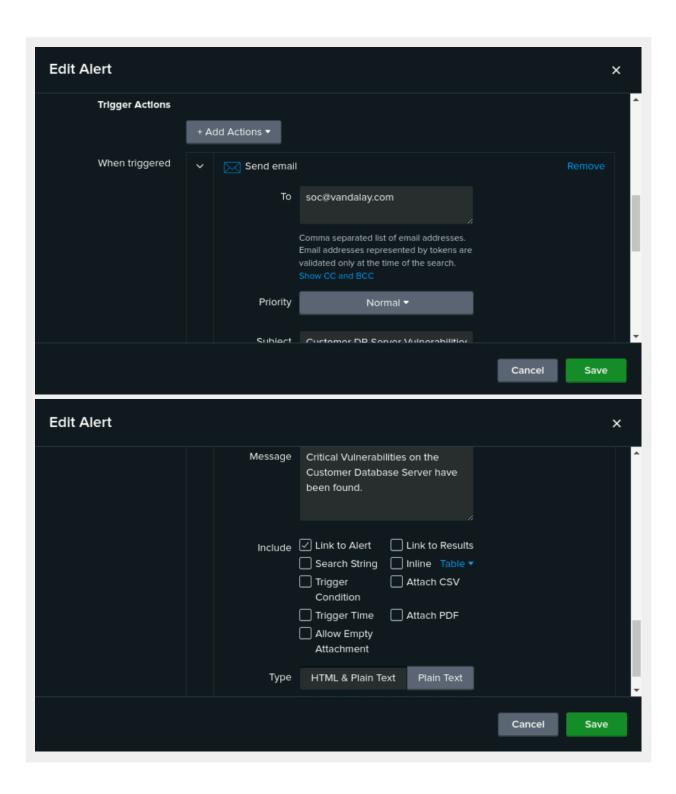
Provide a screenshot showing that the alert has been created:



My trigger condition was set at 20 to account for "false positives." Lower conditions may result in an alert being triggered more frequently for vulnerabilities incorrectly classified as critical.

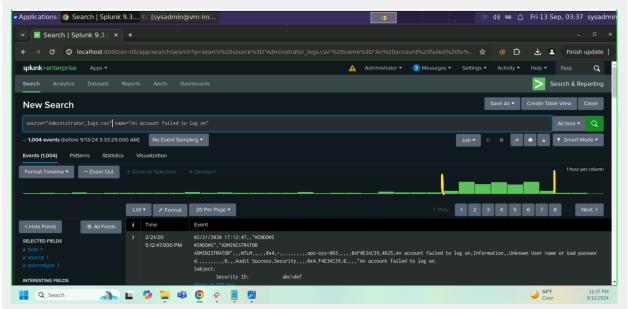






## Step 3: Drawing the (Base)line

1. When did the brute force attack occur?



It appears a typical amount of failed login attempts range from as little as 8 in an hour to as many as 23 in an hour. At **8am on Friday, February 21, 2020**, we see failed login attempts deviate from this range to 34 failed attempts. That number increases to 124 failed attempts at 9am. Between the hours of 9am and 1pm there were over 95 failed login attempts each hour. At 2pm the number reduced to 34 failed login attempts that hour before returning to our baseline.

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

The total number of failed logins in the 26 hours before the brute force attack began was about 366. I took 366 and divided it into 26 to get an average of 14.07 failed logins per hour. My suggested baseline of normal activity would not exceed about 15 failed logins in an hour.

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

