



# 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

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

2020-02-23 14:30

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

8 hours.

Provide a screenshot of your report:

localhost:8000/en-US/app/search/search?earliest=0&latest=6&q=search%20source%3D%20server\_speedtest.csv%20%7C%20eval%20ra... Update

source="server\_speedtest.csv" | eval ratio = UPLOAD\_MEGABITS / DOWNLOAD\_MEGABITS | table \_time IP\_ADDRESS DOWNLOAD\_MEGABITS UPLOAD\_MEGABITS ratio All time

✓ 23 events (before 4/10/24 2:37:31.000 AM) No Event Sampling Job || ↻ ⬇ ⬆ Smart Mode

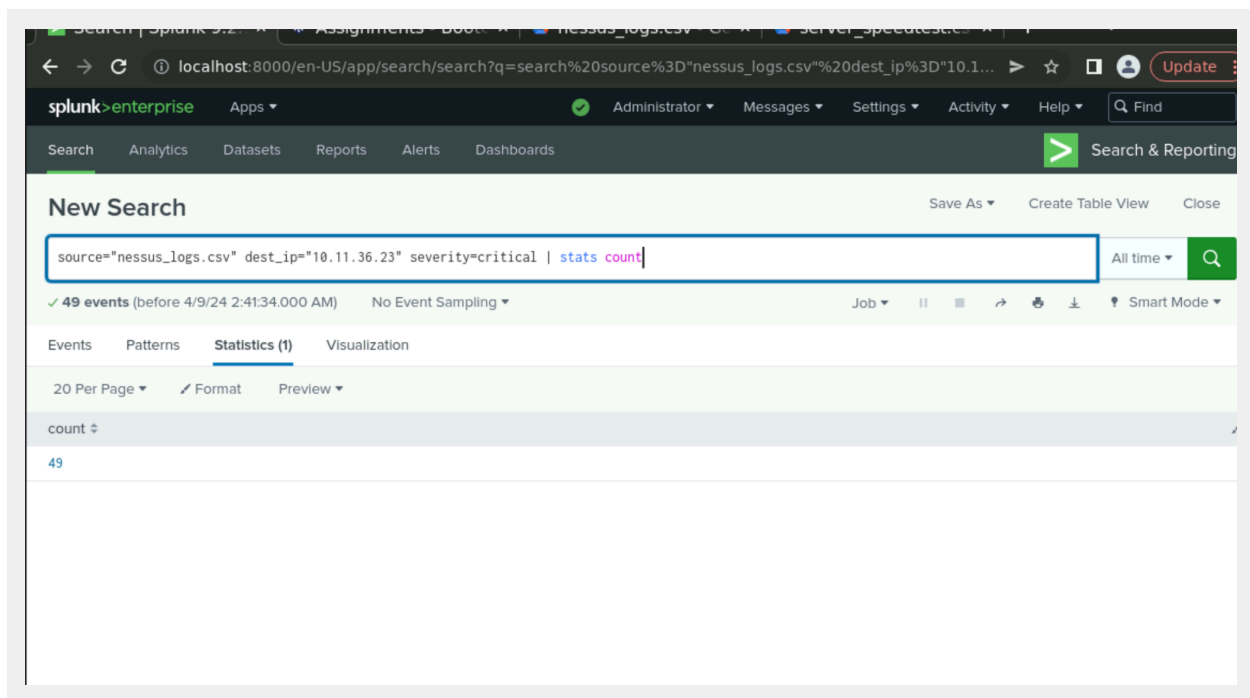
Events Patterns **Statistics (23)** Visualization

20 Per Page ✓ Format Preview < Prev 1 2 Next >

_time	IP_ADDRESS	DOWNLOAD_MEGABITS	UPLOAD_MEGABITS	ratio
2020-02-20 14:21:00	198.153.194.1	109.16	5.43	0.0497
2020-02-21 14:30:00	198.153.194.1	105.91	5.51	0.0520
2020-02-21 16:30:00	198.153.194.2	106.91	6.51	0.0609
2020-02-21 18:30:00	198.153.194.2	107.91	7.51	0.0696
2020-02-21 20:30:00	198.153.194.1	108.91	8.51	0.0781
2020-02-21 22:30:00	198.153.194.1	109.91	9.51	0.0865
2020-02-21 23:30:00	198.153.194.1	109.16	10.51	0.09628
2020-02-22 14:30:00	198.153.194.1	105.91	11.51	0.1087
2020-02-22 16:30:00	198.153.194.2	106.91	12.51	0.1170
2020-02-22 18:30:00	198.153.194.2	107.91	13.51	0.1252
2020-02-22 20:30:00	198.153.194.2	108.91	7.51	0.0690
2020-02-22 22:30:00	198.153.194.2	109.91	8.51	0.0774
2020-02-22 23:30:00	198.153.194.2	109.16	9.51	0.0871
2020-02-23 14:30:00	198.153.194.1	7.87	1.83	0.233
2020-02-23 14:30:00	198.153.194.2	12.76	2.19	0.172
2020-02-23 18:30:00	198.153.194.2	17.56	3.43	0.195
2020-02-23 20:30:00	198.153.194.2	65.34	4.23	0.0647
2020-02-23 22:30:00	198.153.194.1	78.34	6.51	0.0831
2020-02-23 23:30:00	198.153.194.2	123.91	8.51	0.0687
2020-02-23 23:30:00	198.153.194.1	122.91	7.51	0.0611

## Step 2: Are We Vulnerable?

Provide a screenshot of your report:



Provide a screenshot showing that the alert has been created:



## 10.11.36.23 Critical Vulnerabilities

Edit ▾

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

App: ..... search

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

Modified: ..... Apr 9, 2024 2:47:41 AM

Alert Type: ..... Scheduled. Daily, at 0:00. [Edit](#)Trigger Condition: ... Number of Results is > 0. [Edit](#)Actions: ..... ▾ 1 Action [Edit](#)[✉ Send email](#)

There are no fired events for this alert.

## Save As Alert



## Settings

Title 10.11.36.23 Critical Vulnerabilities

Description Optional

Permissions Private Shared in App

Alert type Scheduled Real-time

Run every day ▾

At 0:00 ▾

Expires 24 hour(s) ▾

## Trigger Conditions

Trigger alert when Number of Results ▾

Is greater than ▾ 0

Trigger Once For each result

Cancel

Save

**Save As Alert** [X]

Trigger alert when: Number of Results ▼

is greater than ▼ 0

Trigger: Once For each result

Throttle ? ☐

**Trigger Actions**

+ Add Actions ▼

When triggered ▼

- ✉ Send email Remove
 

To: soc@vandalay.com

Comma separated list of email addresses. Email addresses represented by tokens are validated only at the time of the search. [Show CC and BCC](#)

Priority: Highest ▼

Subject: [partially visible]

### Step 3: Drawing the (Base)line

1. When did the brute force attack occur?

February 21, 2020 between 8AM and 2PM

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

Baseline is 5 to 25. Threshold is higher than 25 in an hour.

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

localhost:8000/en-US/app/search/alert?s=%2FservicesNS%2Fadmin%2Fsearch%2Fsaved%2Fsearches%2FBrute%2520Force%2520Att...

splunk>enterprise

Apps

Administrator

Messages

Settings

Activity

Search

Analytics

Datasets

Reports

Alerts

Dashboards

## Brute Force Attack

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

App: ..... search

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

Modified: ..... Apr 9, 2024 3:10:54 AM

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

Trigger Condition: .. Number of Results is > 25. [Edit](#)

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

[✉ Send email](#)

There are no fired events for this alert.