



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?

Approximate date and time are 2020-02-23 14:30:00

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

About 6hrs to recover based on the speed diagnostics

Provide a screenshot of your report:

New Search Save As Create Table View Close

source="server_speedtest.csv" host="speedtest_ddos" sourcetype="csv" | eval ratio = 'UPLOAD_MEGABITS' / 'DOWNLOAD_MEGABITS' | table _time IP_ADDRESS
 DOWNLOAD_MEGABITS UPLOAD_MEGABITS ratio All time Q

✓ 23 events (before 10/20/24 6:35:00.000 PM) No Event Sampling Job II ■ ↶ ↷ ⬇ ⬆ 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 16:30:00	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:

Critical Vulnerabilities Count on 10.11.36.23 Edit More Info Add to Dashboard

All time

✓ 49 events (before 10/20/24 7:02:11.000 PM) Job II ■ ↶ ↷ ⬇ ⬆

1 result 20 per page

Critical Vulnerabilities Count ↕

49

Provide a screenshot showing that the alert has been created:

Settings

Alert **Critical Vulnerabilities on 10.11.36.23**

Description

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 ▾ 1

Trigger Once For each result


Throttle [?] ☐

Trigger Actions

+ Add Actions ▾

When triggered

▼

 Send email Remove

To

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 Normal ▾

Subject

The email subject, recipients and message
can include tokens that insert text based on

Cancel

Save

Step 3: Drawing the (Base)line

1. When did the brute force attack occur?

Friday Feb 21 2020 around 9am - 1pm

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

Baseline = about 35 /hr

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



New Search

Save As Create Table View Close

source="Administrator_logs.csv" host="administrator_logs" sourcetype="csv" "EventCode=4625" |stats count by date_hour

All time



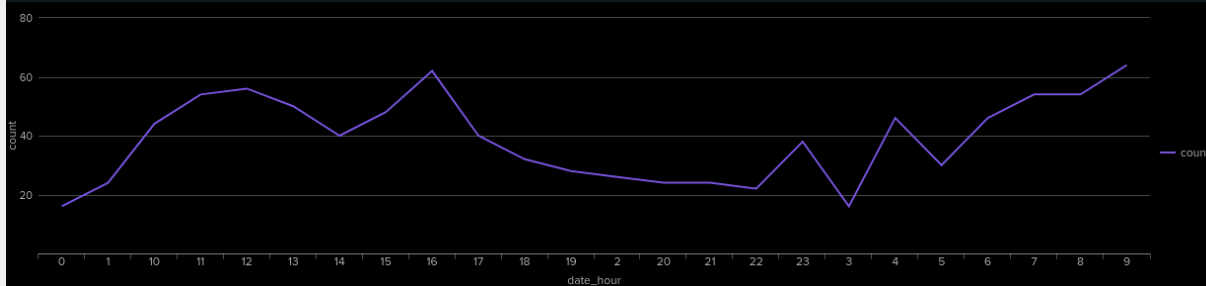
✓ 469 events (before 10/20/24 7:29:51.000 PM)

No Event Sampling

Job II Share Download Smart Mode

Events Patterns Statistics (24) Visualization

Line Chart Format Trellis



Settings

Title

Brute Force Attack on Administrator Account

Description

Brute Force Attack on Administrator Account

Permissions

Private

Shared in App

Alert type

Scheduled

Real-time

Run every hour ▾

At

0 ▾

minutes past the hour

Expires

24

hour(s) ▾

Trigger Conditions

Trigger alert when

Number of Results ▾

is greater than ▾

30

Trigger

Once

For each result

Throttle ?

☐

Trigger Actions

+ Add Actions ▾

When triggered

▼

✉ Send email

Remove

To

SocTEAM@company.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

Normal ▾

Subject

Splunk Alert: \$name\$

Cancel

Save