# CYB102 Project 5



Student Name: Alexander Nguyen

Student Email: alexanderhonguyen19@gmail.com

# **Reflection (Required)**

🤔 Reflection Question #1: If I had to explain "what is SIEM" in 3 emojis, they would be...

(Feel free to put other comments about your experience in this unit here, too!)



Reflection Question #2: What field do you think is most important for logs to have?

I think the simple "source=<this/path/file>" and it all depends on what you're looking at for the field.

The event "time=\*" is important too to realize if there was an instance of logins that was simultaneous.

I also came to the conclusion that show\_id field to be exponentially helpful. Giving a unique identification to each event and eliminating confusion for duplicates.

♠ Shoutouts: Share appreciation for anyone who helped you out with this project or made your day a little better!

Omkar helped me out on how to proceed in azure labs with the rdp. Although I didn't set it up yet, it was helpful.

# CTF Challenges (Required)

Use the answer boxes below to document any CTF challenges you completed. If you don't complete a particular challenge, leave it blank.

# Part 1 - Searching the Netflix Data (1pt each)

index=main source=Netflix

Challenge 1: How many TV shows on Netflix are in the Docuseries genre?

#### **Solution:**

- 1. source="/root/tmp\_splunk/netflix\_titles.csv" type="TV Show" listed\_in=Docuseries
- 2. | stats count by country
- 3. | sort -count
- 4. 85
- Challenge 2: How many movies on Netflix have a rating of TV-PG?

#### **Solution:**

- 1. source="/root/tmp\_splunk/netflix\_titles.csv" type="Movie" rating="TV-PG"
- 2. **540**
- **Challenge 3:** How many movies on Netflix were released in the year 2020?

#### **Solution:**

- 1. source="/root/tmp\_splunk/netflix\_titles.csv" type="Movie" release\_year="2020"
- 2. **517**
- **Challenge 4:** What is the longest duration by season on Netflix, and what is its TV rating?

#### Solution:

- 1. source="/root/tmp\_splunk/netflix\_titles.csv" type="TV Show"| rare limit=20 duration
- 2. source="/root/tmp\_splunk/netflix\_titles.csv" type="TV Show" duration="17 seasons" rating="TV-14"
- 3. Duration: "17 seasons" Rating: "TV-14"
- Challenge 5: How many movies on Netflix are listed as action and are rated PG-13?

#### **Solution:**

- source="/root/tmp\_splunk/netflix\_titles.csv" type="Movie" rating="PG-13" listed\_in="Action\*"
- 2. 148

**Challenge 6:** How many movies and TV shows on Netflix have their country of origin as Turkey?

## **Solution:**

- source="/root/tmp\_splunk/netflix\_titles.csv" type="Movie" OR type="TV Show" country="Turkey" show\_id=\*
- 2. 105
- Challenge 7: Which release year had the most movies rated G? (Not TV-G)

#### **Solution:**

- 1. source="/root/tmp\_splunk/netflix\_titles.csv" type="Movie" rating="G" | top limit=20 release\_year
- 2. 2019
- **Challenge 8:** What two TV-Y7 rated shows were released in 2019 and were added to Netflix on November 22, 2019?

#### **Solution:**

- 1. source="/root/tmp\_splunk/netflix\_titles.csv" type="TV show" release\_year="2019" date\_added="November 22, 2019" rating="TV-Y7"
- 2. The Dragon Prince, Trolls: The Beat Goes On!
- Challenge 9: Which year had the most movies from the United States?

## **Solution:**

- source="/root/tmp\_splunk/netflix\_titles.csv" sourcetype="csv" type="Movie" release\_year="\*" country="United States"| top limit=20 release\_year
- 2. 2017
- Challenge 10: What is the oldest TV show by Release Year on Netflix?

#### **Solution:**

- source="/root/tmp\_splunk/netflix\_titles.csv" sourcetype="csv" type="TV show"| rare limit=20 release\_year
- 2. Pioneers: First Women Filmmakers\*, released in 1925

# Part 2 - Investigating the Malware (2pts each)

For Part 2 we are investigating an attacker who got into our systems that happened at PathCode Inc.

For these logs use index=pathcode

**Challenge 11:** What was the IP address that uploaded the malware (MD5 hash: 3AADBF7E527FC1A050E1C97FEA1CBA4D)

## **Solution:**

- source="uploadedhashes.csv" host="longpc" "File Hash"=3AADBF7E527FC1A050E1C97FEA1CBA4D
- 2. 192.168.1.10

3.

**Challenge 12:** What usernames did that IP address try to login to the system as? Which one did they upload a file as?

#### **Solution:**

- 1. source="webserver02.csv" host="longpc" sourcetype="csv" IP="192.168.1.10"
- 2. Admin, Pi, ABurke
- 3. ABurke

**Challenge 13:** What was the User Agent String of the attacker when they successfully uploaded a file?

## **Solution:**

- 1. source="webserver02.csv" host="longpc" sourcetype="csv" Event="File Upload" IP="192.168.1.10" "User Agent"="Firefox/89.0"
- 2.

**Challenge 14:** Did any other users also upload a file around that time? If so, who and what was their IP address?

#### **Solution:**

- 1. source="webserver02.csv" host="longpc" sourcetype="csv" Event="File Upload"
- 2. It was Jmann, around 15:29. ABurke uploaded around 15:21
- 3. Jmann's IP address: 192.168.1.7

Challenge 15: Looking at the uploaded hashes, what were the files called that the two users uploaded? Which one seems like it was malicious?

#### **Solution:**

- 1. source="uploadedhashes.csv" host="longpc" IP="192.168.1.10" OR IP="192.168.1.7"
- 2. proposal.pdf, EvilScript.exe
- 3. EvilScript.exe

# **Submission Checklist**

Check off each of the features you have completed. You will only be graded on the features you check off.

## Reflection

- ☑ Reflection Question #1 answered above

# CTF Challenges (10pts needed for full credit, 17pts needed for extra credit) Part 1 - 1pt each

- ☑ Challenge #1: How many TV shows on Netflix are in the Docuseries genre?
- Challenge #2: How many movies on Netflix have a rating of TV-PG?
- Challenge #3: How many movies on Netflix were released in the year 2020?
- Challenge #4: What is the longest duration by season on Netflix, and what is its TV rating?
- ☑ Challenge #5: How many movies on Netflix are listed as action and are rated PG-13?
- ☑ Challenge #6: How many movies and TV shows on Netflix have their country of origin as Turkey?
- ☑ Challenge #7: Which release year had the most movies rated G? (Not TV-G)

- Challenge #8: What two TV-Y7 rated shows were released in 2019 and were added to Netflix on November 22, 2019?
- ☑ Challenge #9: Which year had the most movies from the United States?
- Challenge #10: What is the oldest TV show by Release Year on Netflix?

## Part 2 - 2pts each

- ☑ Challenge #11: What was the IP address that uploaded the malware (MD5 hash: 3AADBF7E527FC1A050E1C97FEA1CBA4D)
- ☑ Challenge #12: What usernames did that IP address try to login to the system as? Which one did they upload a file as?
- ☑ Challenge #13: What was the User Agent String of the attacker when they successfully uploaded a file?
- ☑ Challenge #14: Did any other users also upload a file around that time? If so, who and what was their IP address?
- ☑ Challenge #15: Looking at the uploaded hashes, what were the files called that the two users uploaded? Which one seems like it was malicious?

Tip: You can see specific grading information, including points breakdown, by going to the grading page on the course portal.

# Submit your work!

Step 1: **Click** the Share button at the top of your screen double check that anyone with the link can edit.



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