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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!)

   **SIEM** (Security Information and Event Management)

 **(Shield):** Represents the security aspect of SIEM, which focuses on defending systems from cyber threats.

 **(Arrow):** continuous flow of data being monitored and analyzed in real-time.

 **(Chart):** Symbolizes the data analysis and reporting of security events, which is crucial for identifying and responding to threats.

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

The **timestamp** is the more important field. Timestamp is the field that helps understand the flow of events or the sequence of actions and correlating logs across different systems.

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

All my pals from Team 17. I have to be prepared to be able to support them

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. **170**
2. index=main host="Netflix" type="TV Show" listed_in="Docuseries" | stats count

 **Challenge 2:** How many movies on Netflix have a rating of TV-PG?

Solution:

1. **1080**
2. index=main host="Netflix" type="Movie" rating="TV-PG" | stats count

 **Challenge 3:** How many movies on Netflix were released in the year 2020?

Solution:

1. **1034**
2. index=main host="Netflix" type="Movie" release_year="2020" | stats count

 **Challenge 4:** What is the longest duration by season on Netflix, and what is its TV rating?

Solution:

1. **Longest TV Show = 17, rating = TV-14, title = Grey's Anatomy**
2. index=main host="Netflix" type="TV Show"
| rex field=duration "(?<season_duration>\d+)"
| stats max(season_duration) as longest_duration by rating, title
| sort -longest_duration
| head 1
| table longest_duration, rating, title

 **Challenge 5:** How many movies on Netflix are listed as action and are rated PG-13?

Solution:

1. **46**
2. index=main host="Netflix" type="Movie" listed_in="Action & Adventure" rating="PG-13" | stats count

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

Solution:

1. **210**
2. index=main host="Netflix" (type="Movie" OR type="TV Show") country="Turkey"
| stats count as Total

Challenge 7: Which release year had the most movies rated G? (Not TV-G)

Solution:

1. **Release_year = 2009, Count = 8**
2. index=main host="Netflix" type="Movie" rating="G"
| stats count by release_year | sort - count
| head 1
| table release_year, count

Challenge 8: What two TV-Y7 rated shows were released in 2019 and were added to Netflix on November 22, 2019?

Solution:

1. **"The Dragon Prince", "Trolls: The Beat Goes On!"**
2. index=main host="Netflix" type="TV Show" rating="TV-Y7" release_year=2019
date_added="November 22, 2019"
| stats values(title) as Titles

Challenge 9: Which year had the most movies from the United States?

Solution:

1. **Release_year = 2017, Count = 568**
2. index=main host="Netflix" type="Movie" country="United States"
| stats count by release_year
| sort - count
| head 1
| table release_year, count

Challenge 10: What is the oldest TV show by Release Year on Netflix?

Solution:

1. **Release_year=1925, Title="Pioneers: First Women Filmmakers"**
2. index=main host="Netflix" type="TV Show"
| sort release_year
| head 1
| table title, release_year

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:

1. **192.168.1.10**
2. index="pathcode" host="uploadedhashes" "File Hash"="3AADBF7E527FC1A050E1C97FEA1CBA4D"
| dedup IP
| table _time, IP, "User Agent", Filename

 **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. What usernames did that IP address try to login to the system as ?

Aburk, Pi, Admin

index="pathcode" host="webserver02" Event="Login Attempt" IP="192.168.1.10"
| dedup Username
| table _time, IP, "User Agent", Username

2. Which one did they upload a file as?

2023-06-24-04 15:29:00 JMann

2023-06-24-04 15:21:00 Aburk

index="pathcode" host="webserver02" Event="File Upload"
| dedup Username
| table _time, IP, "User Agent", Username, Event

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

Solution:

1. Opera/75.0.3969.218

index="pathcode" (host="BluecoatProxy01" OR host="failedlogins64" OR host="uploadedhashes" OR host="webserver02") Event="File Uploaded" IP="192.168.1.10" "File Hash"="3AADBF7E527FC1A050E1C97FEA1CBA4D"
| dedup IP
| table _time, IP, Filename, "User Agent"

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

Solution:

1. **2023-06-04 15:21:00 ABurk : 192.168.1.10,**
2023-06-04 15:29:00 Jmann: 192.168.1.7
2. index="pathcode" (host="BluecoatProxy01" OR host="failedlogins64" OR host="uploadedhashes" OR host="webserver02") (Event="File Upload" OR Event="File Uploaded") Username="*"
| dedup Timestamp
| table Timestamp, IP, Username

 **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. **Looking at the uploaded hashes, what were the files called that the two users uploaded?**
2023-06-04 15:29:00, 192.168.1.7, Jmann, proposal.pdf ,
2023-06-04 15:21:00, 192.168.1.10, ABurke, EvilScript.exe

2. **Which one seems like it was malicious?**

EvilScript.exe

```
index="pathcode" host="webserver02" Event="File Upload"  
| table Timestamp, IP, Username  
| Join IP  
  [search index="pathcode" host="uploadedhashes"  
  | table IP, Filename]  
| dedup IP  
| table Timestamp, IP, Username, Filename
```

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
- Reflection Question #2 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?

QTip: You can see specific grading information, including points breakdown, by going to [the grading page](#) on the course portal.

Submit your work!

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