

ELLINGTON CYBER ACADEMY

KENNETH ELLINGTON

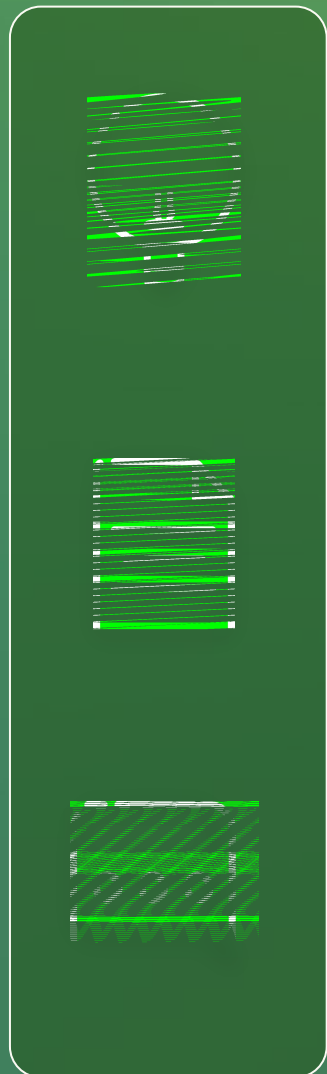
Founder & Instructor

ellingtonCyberAcademy.com

e:kellington@ellingtoncyberacademy.com



About The Webinar



- **Mastering Splunk for Digital Defense**
- **WHAT.** Hands-on labs overview of Splunk and Security basics
- **SCHEDULE.** 1 Night 1-2 Hours long
- **HOW.**
 - Walkthrough of the fundamentals of how Splunk works and SIEM technologies overall
 - Demo of how to set up a basic Splunk Lab
 - Demo of how to ingest Windows logs into you Splunk Lab

Who the HECK is Kenneth?



- **Kenneth Ellington**
- Senior Cybersecurity Consultant at Big 4 firm
- Cyber Security Practitioner specialized in SIEM and SOAR technology
- Former Cyber Security instructor at University of Houston
- Blue team program instructor for Blacks in Cyber Security
- Huge My Hero Academia Fan

Who the HECK is Courtney?



- **Courtney Wright**
- SOC Specialist at Expel
- Specialized in MDR technologies and phishing techniques
- SIEM and SOAR Instructor at ECA
- Huge Marvel fan



What Exactly is a SIEM?

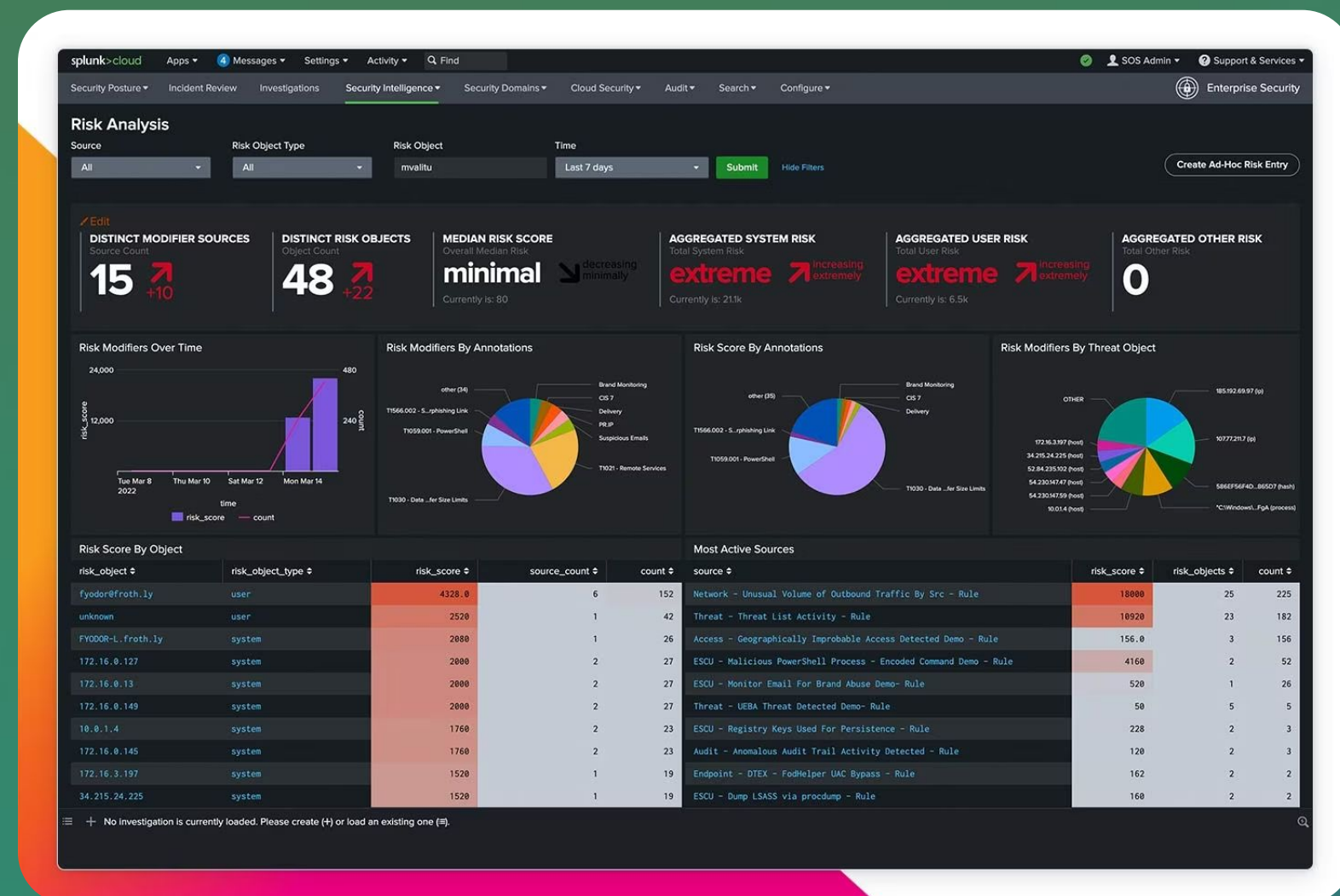
SIEM = Security Information & Event Monitoring

Designed to log and monitor security events inside of an environment
Not meant to store every single IT event inside of the environment

Examples: Splunk ES, Qradar, Microsoft Sentinel



splunk> What the Hell is Splunk?



- Data Aggregation Log Management and visualization platform

- Used for multiple use cases, including:

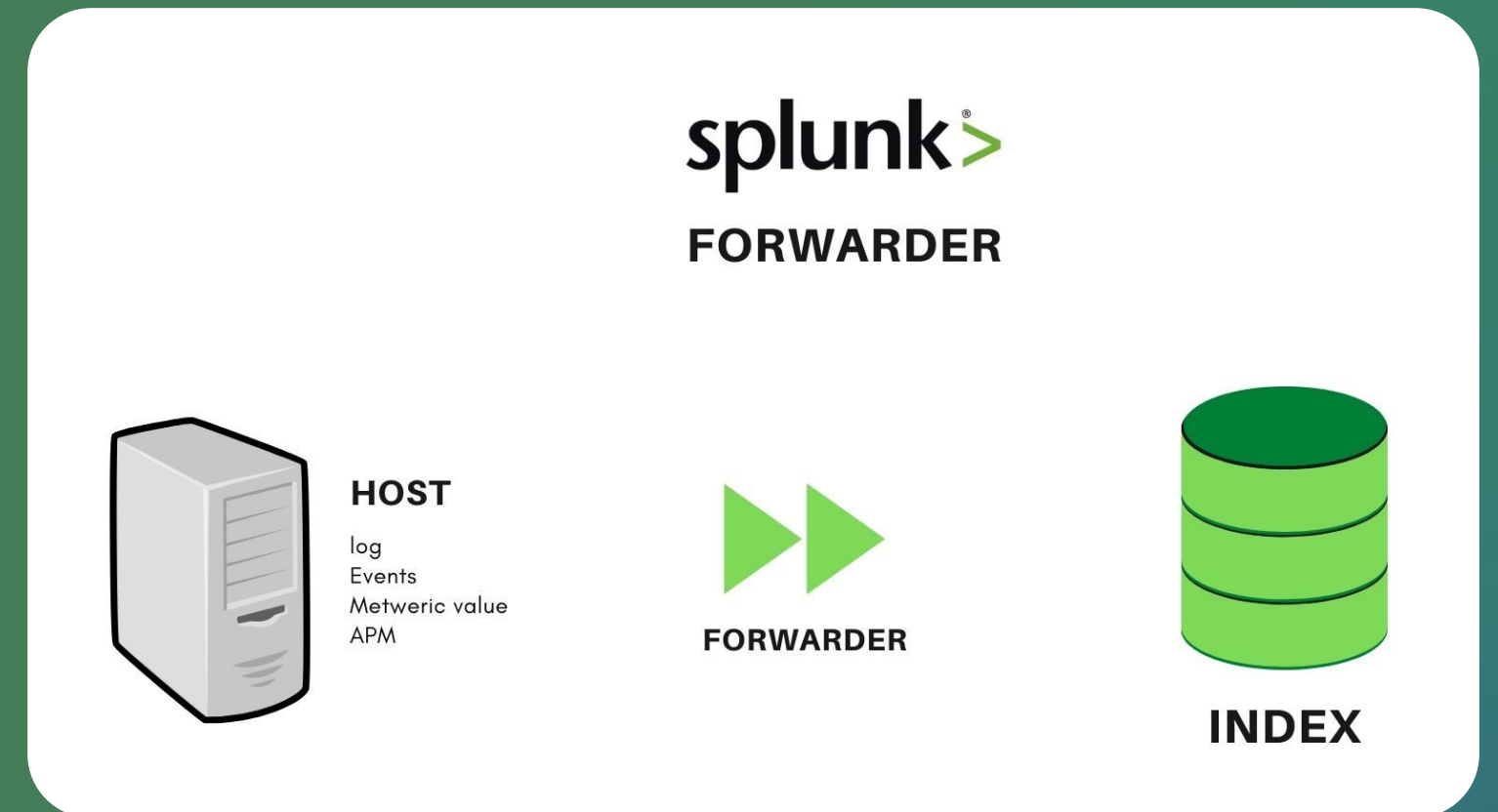
- IT Operations
- Devops
- UBEA
- Cyber Security analytics
- Network Monitoring

- It is not a SIEM!

- Used by 80%+ of Fortune 100 companies

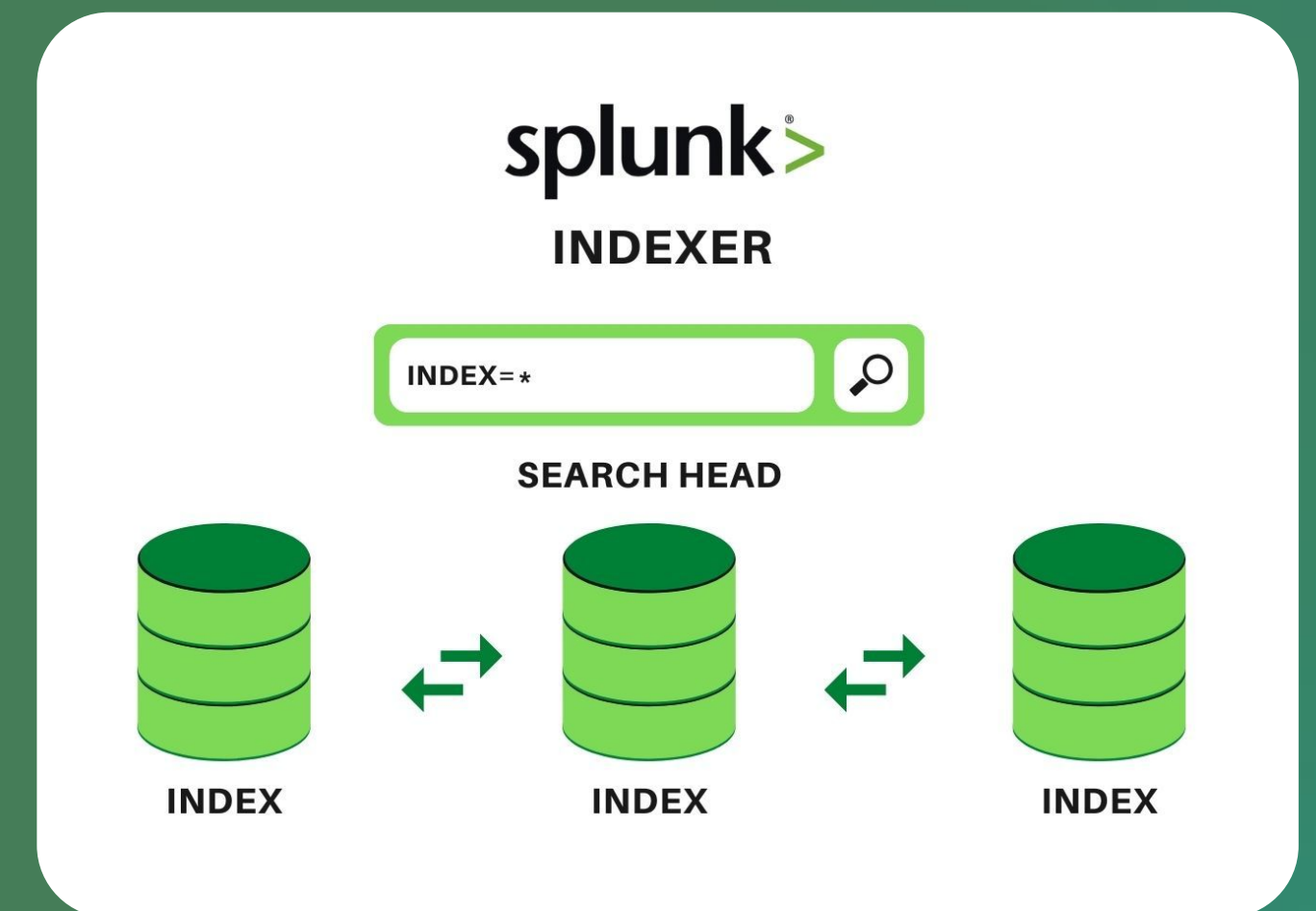
What is a Forwarder?

- Light instance of Splunk Enterprise
- Mainly used to send data to Indexer
- Installed on devices that are owned by firm
- Multiple Types such as:
 - Universal Forwarder (Most Common)
 - Intermediate Forwarder
 - Heavy Forwarder



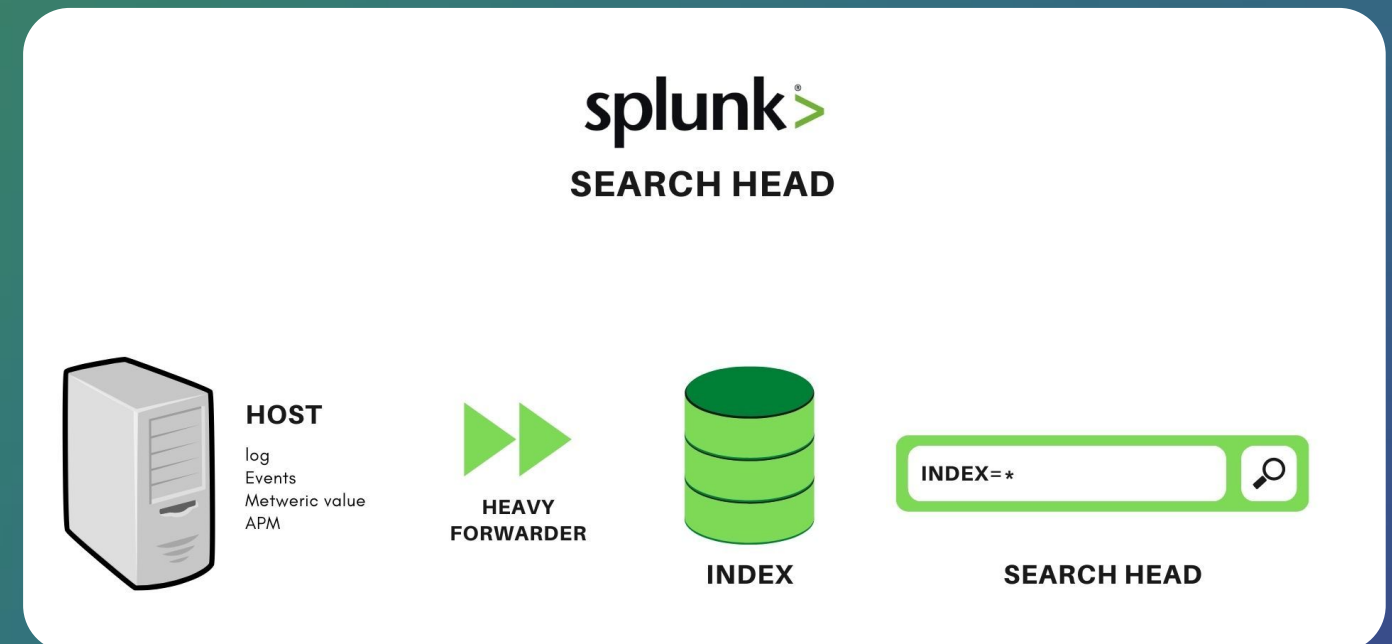
What is An Indexer?

- Storage medium where data is sent to and stored from the forwarders.
- Stored on Flat files and queried from the Search head
- Where the indexing and parsing happens most of the time.
- Licensing meter is also run here.



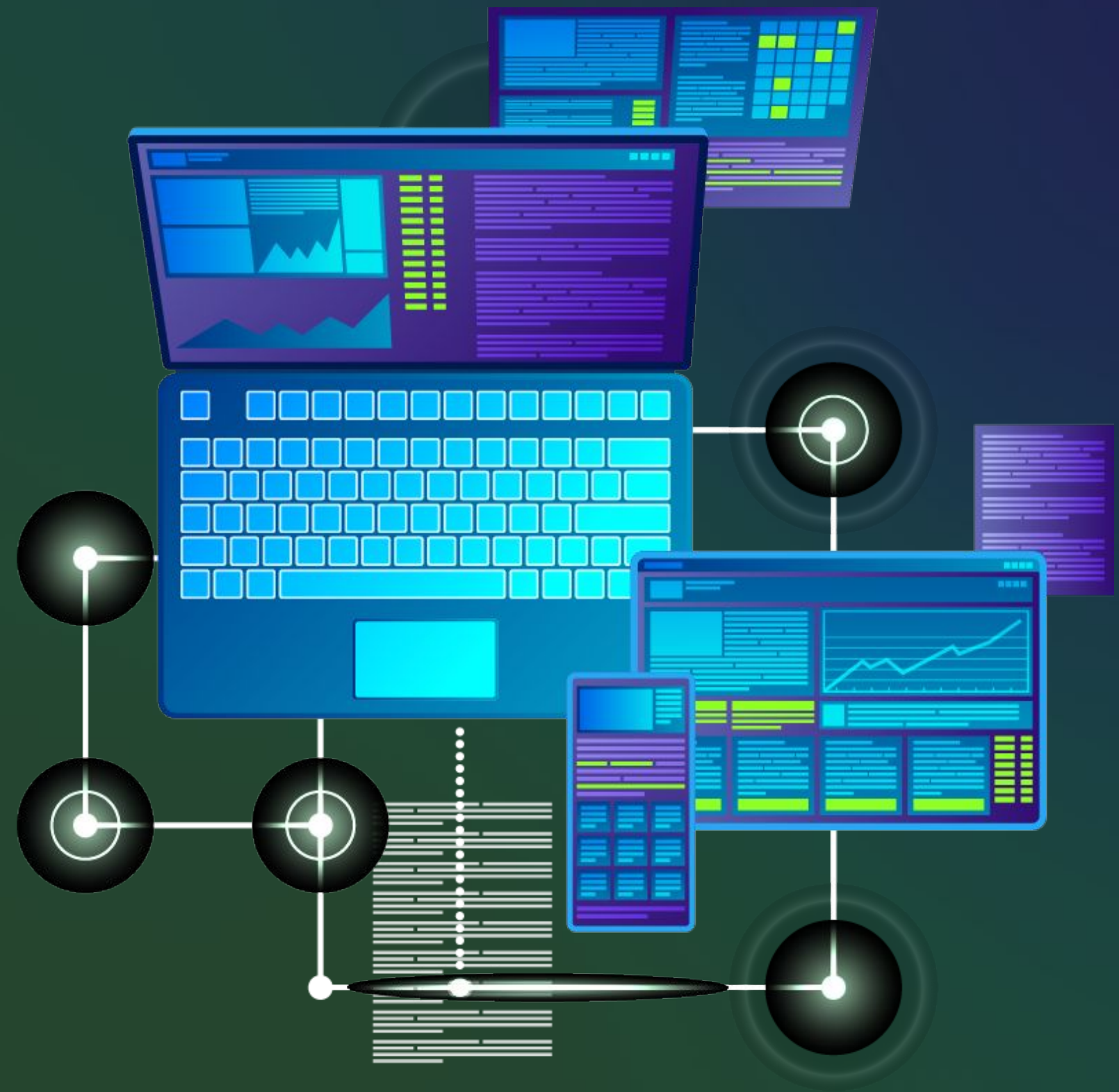
What is a Search Head?

- Splunk component that the end user has access to
- Splunk Web or the GUI sits on the Search Head
- Where the visualizations are created such as Dashboards or reports, as well as where searches are run
- Search head queries the index back for information then displays it



Demo Time

Installing and Configuring Splunk



Searching Windows Event Logs

1 Key Points

- Understanding why it's important to monitor Window logs in your environment
- Learning how to build Detection rules on them certain Event Codes

2 Setting up Windows Forwarding inside of your environment

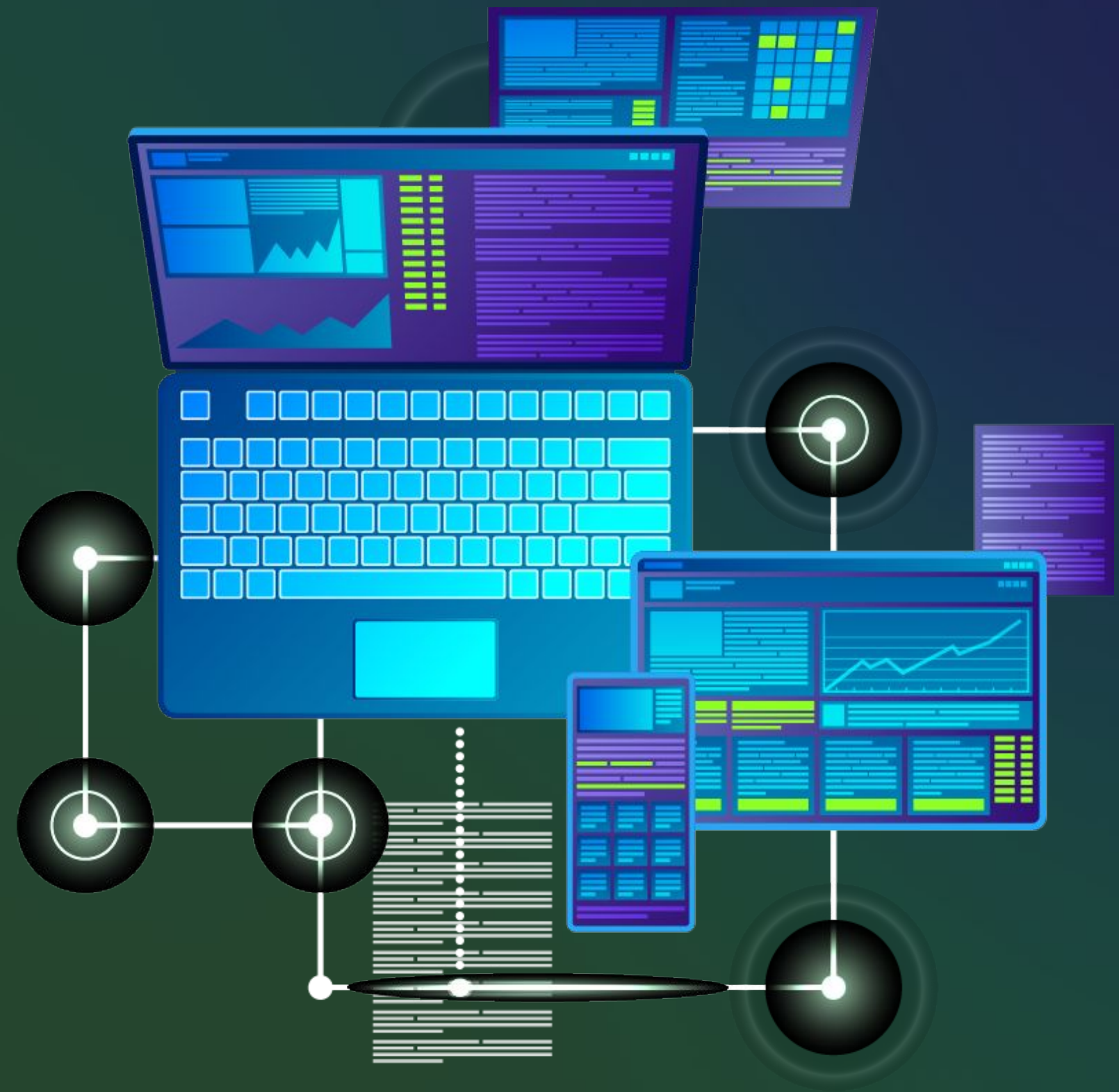
- Configuring the proper ports inside of Splunk
- No TA vs. Using a Windows TA for data ingestion

3 Windows Event Codes to look out for

- Security - 4624, 5136
- Application - 1001

Demo Time

Splunking Windows
logs



THANK YOU



KENNETH ELLINGTON

Founder & Instructor

ellingtoncyberacademy.com

e:kellington@ellingtoncyberacademy.com

