

SWAN

Plot your course

2023 Annual Conference



INFORMATION SECURITY IN LIBRARIES

IAN NOSEK, IT & SYSTEMS SUPPORT MANAGER

CRYSTAL VELA, UX CONSULTANT

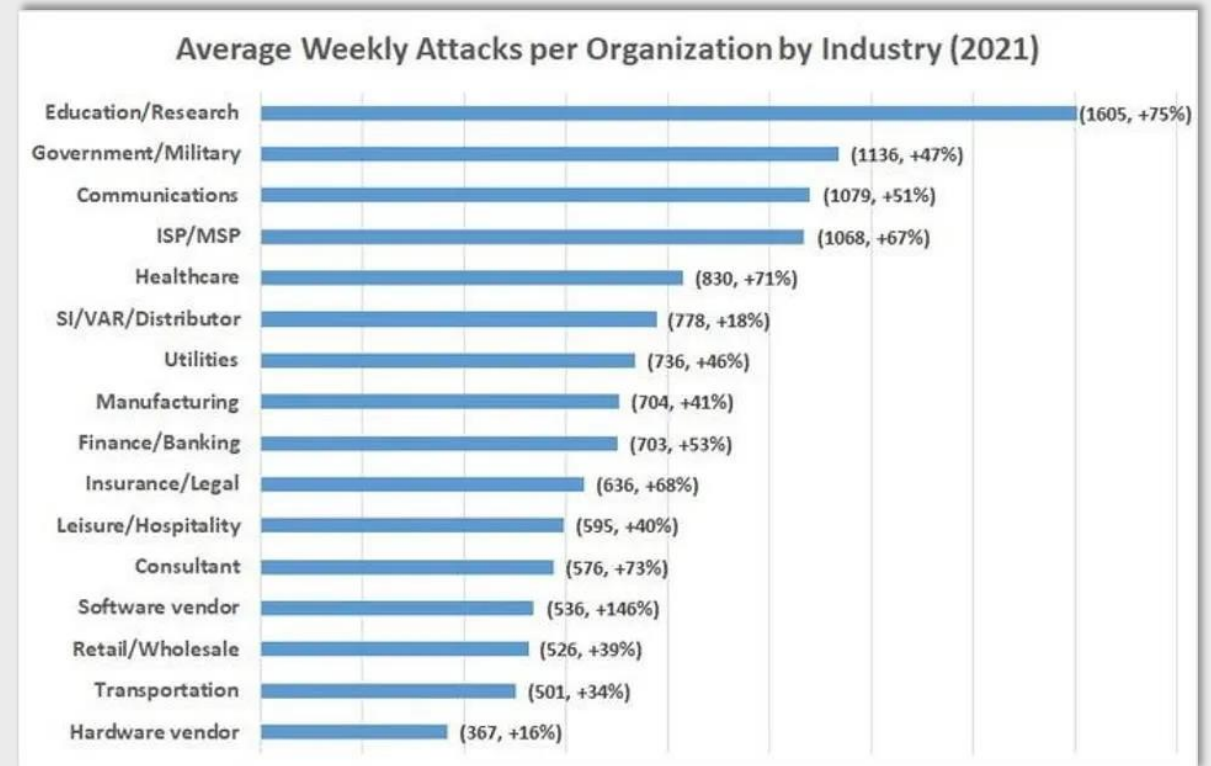
VICKIE TOTTON, IT & SYSTEMS SUPPORT CONSULTANT

AHREN SIEVERS, SYSTEMS ADMINISTRATOR – IT & SYSTEMS SUPPORT



CYBERCRIME TRENDS

- Global cybercrime has increased over 400% since 2019
- 90% of attacks are targeted at employees, not technology
- 82% of attacks involve social engineering or phishing techniques
- 80% of data breaches involve exposure of PII
- Personally Identifiable Information: any data that could potentially identify an individual



HOW DOES SWAN SECURE ACCESS TO OUR SERVERS?

- Firewall rules limit access to SWAN Symphony server
- Library connections are encrypted through use Virtual Private Network (VPNs)
 - These connections protect all data transmitted between library and SWAN
- Vendors must sign off on SWAN's Vendor Access Policy before onboarding begins
- Vendor IP addresses must be whitelisted before connection can be made
- Unless explicitly required for functionality, vendors have Read Only access

HOW IS SWAN PROTECTING THE DATA ON OUR SERVERS?

- Migration of external SIP2 connections to encrypted TLS-SIP2
- Extracts and other data transmitted to vendors via SFTP
- Regularly scheduled database maintenance and patron data removal
- Patron's reading history not visible to staff in Aspen while using Masquerade Mode
- BCA reports are scrubbed of PII or password protected if PII exists
- Patron PINs masked in system

SECURING SIP2 WITH TLS

- SIP2 is an industry standard for passing transactional data between server and client
- SIP2 data is passed in plaintext, potentially exposing Personally Identifiable Information
- Transport Layer Security (TLS) is an encryption method requiring the use of a key-pair to decrypt data
- TLS-SIP2 encrypts SIP2 data, rendering it unreadable without matching security key
- Libby, Hoopla, Kanopy, MeeScan, and several other vendors currently using TLS-SIP2 connections

AOWMS | AA21140003533188 | AENOSEK, IAN |
AQSWS | BZ0075 | CA0000 | CB0200 | BLY | BV15.00
| BD800 QUAIL RIDGE DR WESTMONT IL 60559-6149
| BEian@swanlibraries.net | BHUSD | PD19830618 |
PCSWS_STAFF | PEMALE | PFADULT | PG

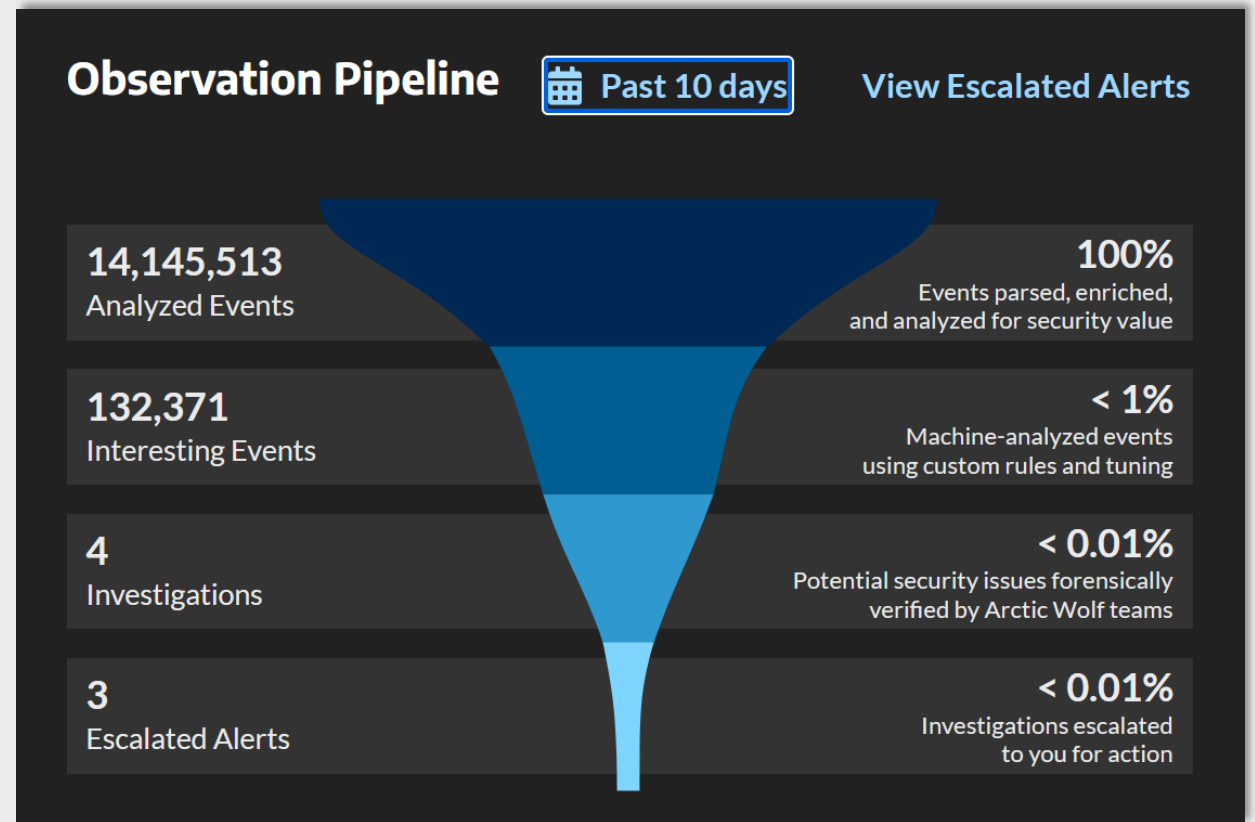
PII Exposed:

- Name
- Gender
- Birthdate
- Home Address
- Email Address
- Barcode/PIN



MANAGED DETECTION AND RESPONSE

- Managed Detection and Response (MDR)
 - 24x7 Cloud, network & endpoint monitoring
 - Dedicated security team investigates and alerts us to incidents and helps with remediation and analysis.
- Managed Security Awareness
 - Phishing simulations
 - Interactive training sessions
- Incident Response JumpStart
 - Incident Response plan development assistance
 - Up to \$1M in recovery funds following a breach





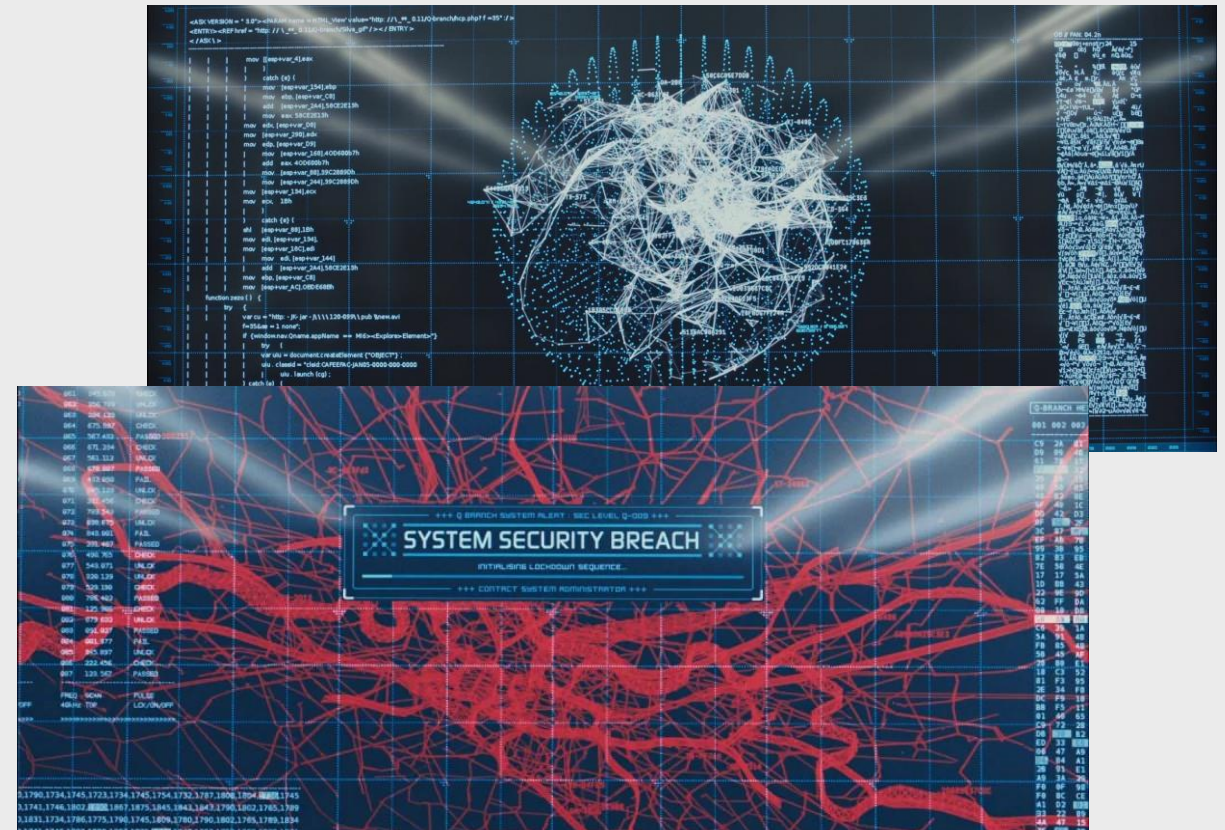
MANAGED DETECTION AND RESPONSE

- Detection

- Movies vs. Reality
- Combing through logs is tedious.
 - Typically only happens *after* a breach or incident.
- Reactive
 - IT only looks through logs when there's an issue.

- Response

- Proactive
 - Logs are constantly being ingested and scanned.
- Zeroes us in on the exact nature of the issue with less hunting through various systems and scrolling through log files.
- Recent Example



PROTECTING PATRON PRIVACY ON THE FRONT LINES



How would you help a patron at the desk without a library card?

- Ask for photo ID
- Photographs in a patron record to ensure identity
- Ask patron to write down address, email, birthdate & shred paper

How would you help a patron with their PIN?

- Keypad for patron to enter PIN
- At registration enter last 4 digits of phone number and urge the patron to change it in Aspen
- Assist patron at a public OPAC in resetting/changing PIN

PROTECTING PATRON PRIVACY ON THE FRONT LINES

How do you protect your patrons hold information?

- Closed hold shelf
- Hold wrappers do not have full name or card number
- Flip item so spine is not face out.

Pickup By:
8/4/2023

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42860

Pro Tip!

Do not leave title
information in a
voicemail

HOW CAN YOU HELP?

- Subscribe to SWANcom for important announcements and communications!
- Update passwords on a regular basis
 - Follow [Managing Passwords & Logins](#) guidelines
 - Use a password manager tool if possible
- Submitting support tickets with SWAN
 - Do **not** include PII or passwords in tickets!
 - Edit screenshots to redact sensitive information



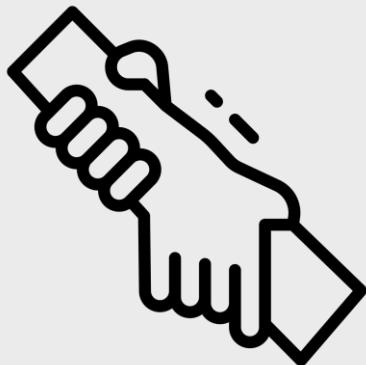
HOW CAN YOU HELP?

- Password protect BLUEcloud Analytics report subscriptions if they contain PII
- Enable PIN for 3rd party vendor connections
 - Self-Check
 - Scheduling Software
- Limit the PII collected and retained
 - Do not use open forms for collection, e.g. Google Forms
 - Create a retention policy and delete files
 - Self-Check Logs
 - Scheduling Software



OTHER WAYS TO PROTECT ACCESS TO INFORMATION

**Open a support ticket when
offboarding library staff.
SWAN can help!**



What is included in SWAN offboarding?

- Reset passwords in
 - WorkFlows
 - BLUEcloud Analytics
- Unsubscribe from
 - SWANcom
 - The Current
- Remove access to
 - SWAN support site
 - SWAN Community Forums (posts remain)
 - SWAN Online Learning

ANY QUESTIONS?



Contacting SWAN Support:
Email: help@swanlibraries.net
Phone: 844.SWANLIB (844.792.6542)