





FRSECURE®

There's Been an Incident...

Now What?

Agenda

01	Welcome
02	Brief Overview of Arctic Wolf & FRSecure
03	Textbook Incident vs Real-Word Incident
04	IR Planning & Prevention
05	Q&A
06	Closing & Resources

Speakers



John Harmon
President
FRSecure



Lane Roush

Sr. VP, Global Sales Engineering

Arctic Wolf



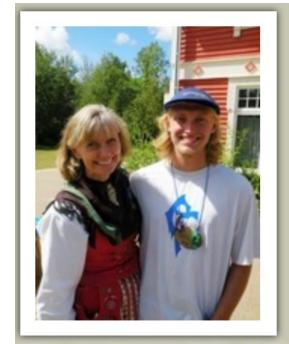
46.4% of adults will experience a mental health illness in their lifetime

~118,000,000: 46.4% of adults

~48,400,000: 41% who receive professional care

~69,600,000: 59% who don't





IN MEMORY OF
Robert
Andrew Wallenberg
"Robby"
Bragg

- Mental Health First Aid USA https://mentalhealthfirstaid.org
- National Suicide Prevention Lifeline
 (Hours: Available 24 hours.) 800-273-8255
- SAMHSA Treatment Referral Helpline 877-SAMHSA7 (877-726-4727)
- Mental Health Hackers https://www.mentalhealthhackers.org



FRSecure – Security Experts on a Mission

The information security industry is broken. We need to fix it.

Talent shortage

No common language

Money-grab

Too much focus on IT

Not enough focus on people

Ego

Lack of accountability

Etc. Etc. (UNSECURITY BOOK)

Need all hands on deck yesterday

Based in MN

Offices in MT & CO. TN, TX and AZ coming soon

~90 Mission-Driven, Wonderful Humans

Product Agnostic

Core Services:

- Forensics & Incident Response
- Security risk assessment
- vCISO
- Compliance (SOC2, PCI, CMMC, NIST, ISO, etc)
- Pen Testing
- Red Teaming (DEFCON Biohacking CTF 2021)

ARCTIC WOLF

END CYBERRISK

How we define Cyber Risk



Arctic Wolf: A Snapshot

SECURITY OPERATIONS CLOUD 1.5 Trillion+ 13400+ 1.5 PB+ Observations/ Active Data/ Week Week Sensors

SOC Statistics





Textbook incident timeline

Stuff Happens

Social engineering
Brute force
Honest mistakes
Vendors
Zero-day
Manufacturer failures
Cloud providers

Detect

Something's off Alerts everywhere System outage Wire transfer attempts Weird e-mails Ransom messages

Process

IR plan (hopefully)
Call the right people
Response team engages
Call insurance (maybe)
Document & contain
Monitor for residual

Report

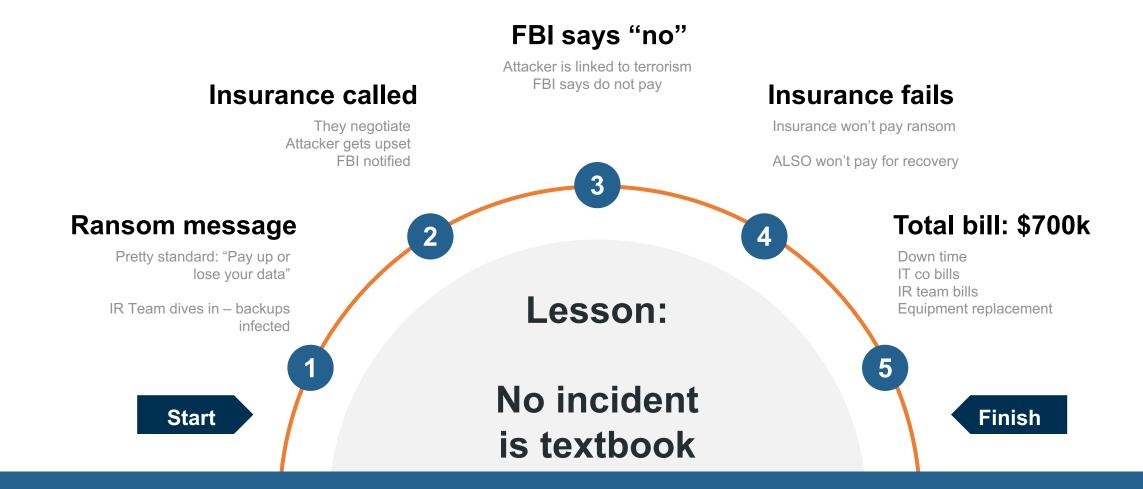
I'm not a lawyer – report it to who you need to

Sharing IOC's is a good idea

Finish

Start

Real-world incident timeline – 800 emp co ransomed



Ransomware Attack Avoided

Arctic Wolf Platform



Arctic Wolf Triage Team



Customer



CST

5:23 am

Source: Active Directory

[USER1] user account begins logging into multiple systems

5:28 am

Investigation Triggered

- C2 traffic is correlated with PowerShell Empire activity on [SERVER1]
- · The incident is escalated to Triage Team Level 3 forensics dashboard with Urgent status

5:48 am

Incident Ticketed

Investigation concludes and Triage Team contacts customer with a CSV detailing the C2 traffic as well as logins which preceded these connections. Gives recommendation to:

- Contain the device / disconnect from network
- Change passwords for the [USER1] accounts / Service accounts
- Run AV scan on endpoints















Security Journey

CST works with customer to identify areas of improvement for their security posture:

- Implement principle of least privilege for remote tools
- · Geofence firewalls
- Enable MFA
- · Setup GPO to block use of PowerShell
- Install Arctic Wolf Agent with Sysmon on all machines

Source: Arctic Wolf Sensor

- HTTP header information containing outbound communication with xx.xxx.230.236 detected, possible C2
- Suspected PowerShell Empire activity detected on [SERVER1]

5:26 am

Investigation Starts

- Triage team begins investigation and finds activity within Active Directory logs of [USER1] user logging into many systems in a short amount of time.
- Confirms network and PS Empire alerts are a true positive and assess scope of attack

6:13 am

reset

Remediation

Customer responds

that the device has

been contained

and passwords

5:29 am

IR Plan Wisdom

You should have one – top priority if you don't

Incident response plans take work, but there are plenty of templates to start with

Incident response plans should cover more than IT

Incident response plans should be tested annually or even quarterly

Have your own relationship with an IR Team

A good plan is your plan, not mine or anyone else's

You are going to have an incident - rodeo rule

Companies who manage risk holistically have fewer and less severe incidents

Cyber Insurance is not a plan

Basic Security Tips/Recommendations

Phishing/BEC

- Add [EXTERNAL] to all inbound email subject lines
- > Don't click links, hover and validate location
- Establish procedure for when/how financial transactions are approved. Email can't be the final say.
- Enable Sender Policy Framework
- Create a culture of security awareness

Malware

- Validate endpoint prevention tools are installed and updated
- Enable perimeter and prevention capabilities (on-prem and in the hyperscalers)

Vulnerability & Config Management

- Maintain a routine patch cycle, build a process for out of band patches/config changes.
- Understand vulnerabilities and prioritize risk
- > Cloud adoption, understand the shared responsibility model

Know Your Attack Surface (e.g.,)

- > Firewall Review
 - External posture / attack surface before and after
 - Recent changes (get into change control/tracking)
- Active Directory Review
 - Review privileged group memberships
 - Validate appropriate audit configuration settings

Why Arctic Wolf?

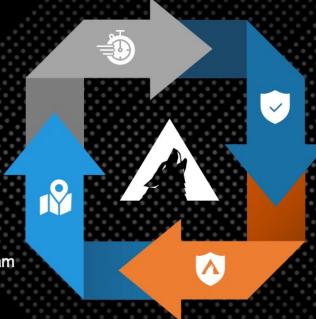
Our innovative Security
Operations platform and
concierge delivery model
enable you to end Cyber Risk

Time to Value

- Leverage existing investments
- Add resources & expertise to your team
- Reduce noise & drive efficiency

Guidance

- Concierge Security Team
- Framework tailored to your environment
- World-class expertise ondemand

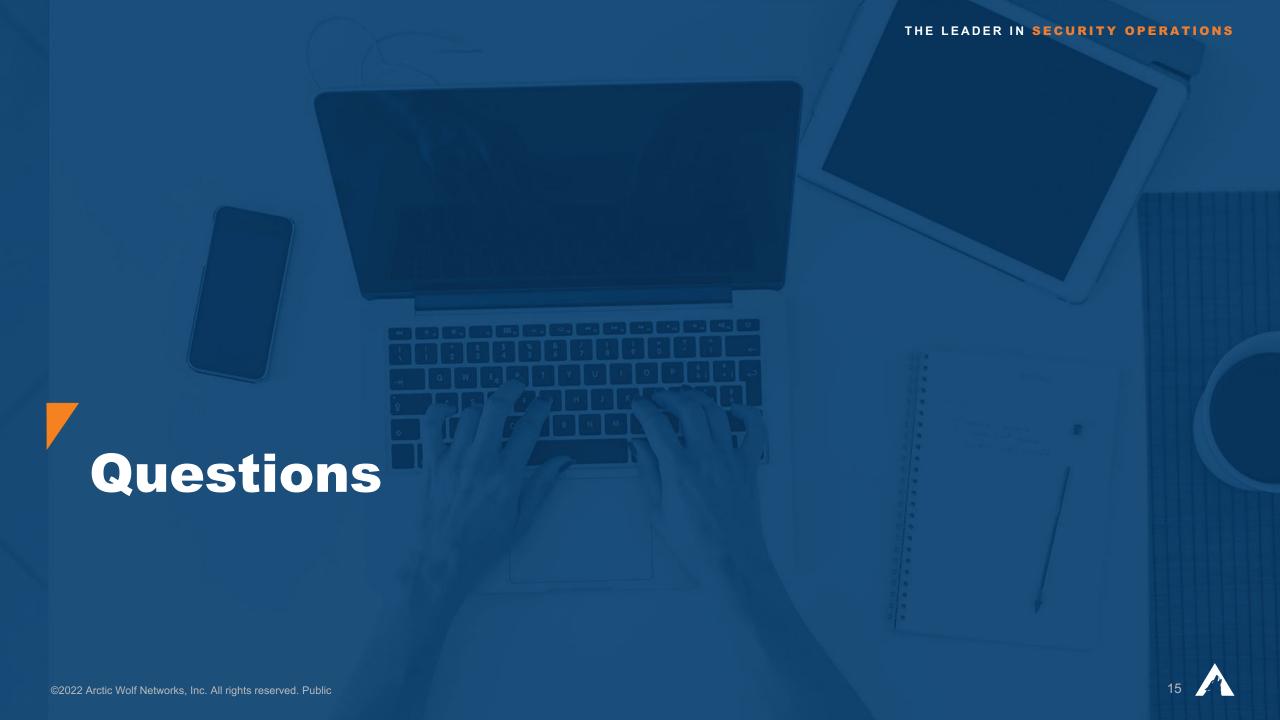


Protection

- Against commodity & advanced threats
- Attack surfaces
- All-the-time (24x7)

Resilience

- Proactive risk mgt
- Continuous posture assessment
- · Sustained compliance



Thank You

Resources:

Arctic Wolf

www.arcticwolf.com

FRSecure.com

- IR Template
- Security Policies
- LOTS of content
- CSIRT@FRSecure.com
- IR Risk Registration
- CISSP Mentor Program