



ARCTIC WOLF

Steve Thiel – Account Representative
Matt Collman – Solutions Engineer





The Average Cost of a Data
Breach in the United States...
\$8.19m

(Source: IBM)





Financial Service Firms are...

300x as likely as other companies to experience a cyber attack (Boston Consulting Group)

Experiencing a 520% increase in Ransomware and Phishing (for comparison: 64% blended across other industries)





CYBERSECURITY HAS AN **EFFECTIVENESS** PROBLEM.



Lessons Learned

2013

**Target Confirms
Unauthorized Access
to Payment Card Data
in U.S. Stores**

2017

**Equifax Announces
Cybersecurity Incident
Involving Consumer
Information**

2019

**Hacker Gain Access to
100 Million Capital One
Credit Card Applications
and Accounts**



A security product detected the threat, but nobody responded to the alert.



Flaw was known by vulnerability management tools, but the patch was never installed.



Misconfiguration in cloud service went unnoticed despite availability of monitoring products.



THEY'RE
NOT **PRODUCT**
FAILURES.

THEY'RE
OPERATIONAL
FAILURES.



The Operational Approach



Broad Visibility



24x7 Coverage



Access to Expertise



Strategic Guidance



Continuous Improvement





ARCTIC WOLF

SECURITY OPERATIONS

Arctic Wolf Platform



Arctic Wolf Platform



Monitor the data 24x7 by a team of assigned security experts who learn your organization and continually optimize our solutions for maximum effectiveness in your environment

Centralize all data in our cloud-native security analytics platform for storage, enrichment, and analysis

Leverage your existing technology stack to gain broad visibility across endpoint, network, and cloud



Concierge Security Team (CST)

Named Security Experts



- ▶ Available to you 8am-5pm in your time-zone
- ▶ Emergency 5 Minute Response

Understand Your Network and Business Risks



- ▶ Acts as trusted advisor for your IT team
- ▶ Builds a customized service for you

Remote Forensics and Incident Response



- ▶ Proactively hunts for threats
- ▶ Recommends remediation actions

Strategic Security Insights & Advice



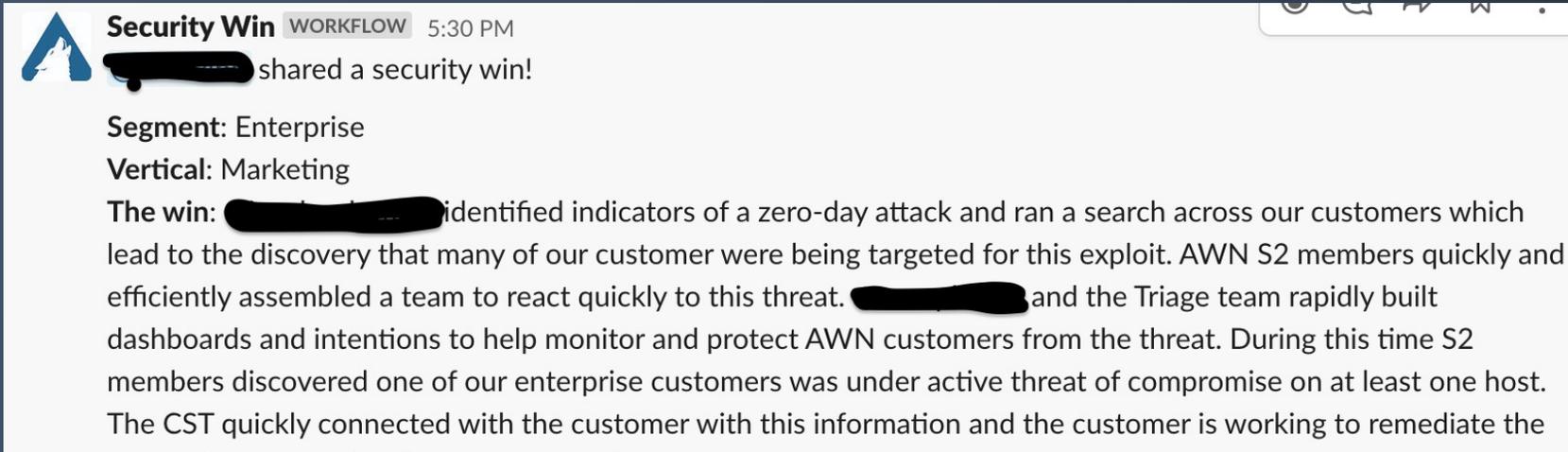
- ▶ Conducts quarterly strategic meetings to identify gaps in the overall security posture



Personal | Predictable | Protection

Recent Win Stories from our SOC

Zero Day attack caught

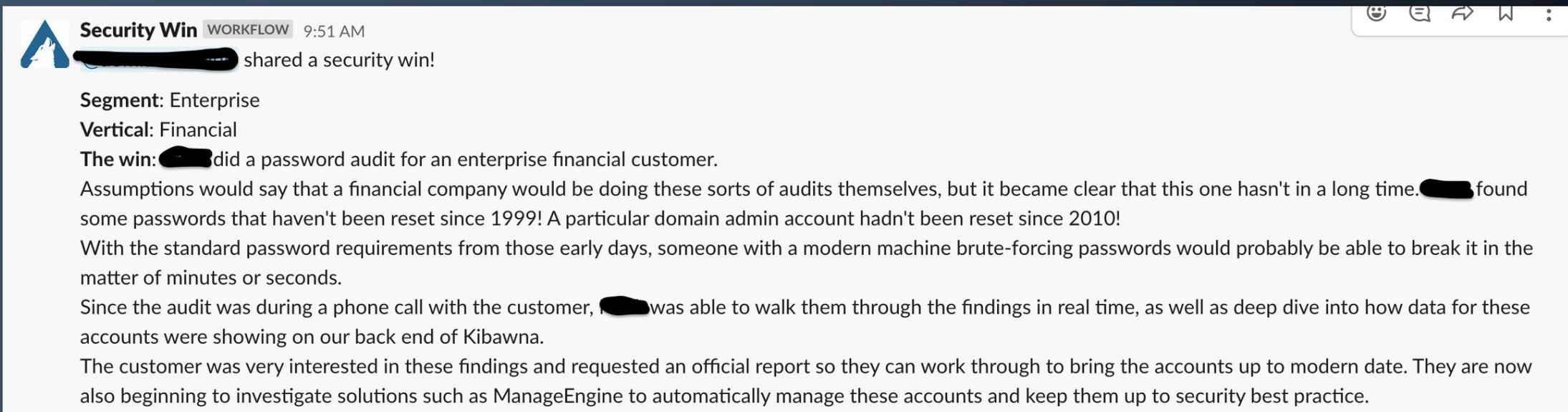


Security Win WORKFLOW 5:30 PM
[Redacted] shared a security win!

Segment: Enterprise
Vertical: Marketing

The win: [Redacted] identified indicators of a zero-day attack and ran a search across our customers which lead to the discovery that many of our customer were being targeted for this exploit. AWN S2 members quickly and efficiently assembled a team to react quickly to this threat. [Redacted] and the Triage team rapidly built dashboards and intentions to help monitor and protect AWN customers from the threat. During this time S2 members discovered one of our enterprise customers was under active threat of compromise on at least one host. The CST quickly connected with the customer with this information and the customer is working to remediate the

The value of the CST goes beyond simply detecting & responding to security alerts for our clients



Security Win WORKFLOW 9:51 AM
[Redacted] shared a security win!

Segment: Enterprise
Vertical: Financial

The win: [Redacted] did a password audit for an enterprise financial customer. Assumptions would say that a financial company would be doing these sorts of audits themselves, but it became clear that this one hasn't in a long time. [Redacted] found some passwords that haven't been reset since 1999! A particular domain admin account hadn't been reset since 2010! With the standard password requirements from those early days, someone with a modern machine brute-forcing passwords would probably be able to break it in the matter of minutes or seconds. Since the audit was during a phone call with the customer, [Redacted] was able to walk them through the findings in real time, as well as deep dive into how data for these accounts were showing on our back end of Kibawna. The customer was very interested in these findings and requested an official report so they can work through to bring the accounts up to modern date. They are now also beginning to investigate solutions such as ManageEngine to automatically manage these accounts and keep them up to security best practice.



Arctic Wolf Solutions



Detect

Leverage your existing tech stack to identify advanced network, endpoint, and cloud threats

Respond

24x7 coverage and guided response stops threats before they can do harm

Recover

Find root cause, validate remediation, and collaborate to continuously improve your overall security posture

70%

Of new customer environments have latent threats



Arctic Wolf Solutions



Discover

Identify and categorize risky software, assets, and accounts

Benchmark

Understand your current digital risk posture and identify gaps relative to best practices

Harden

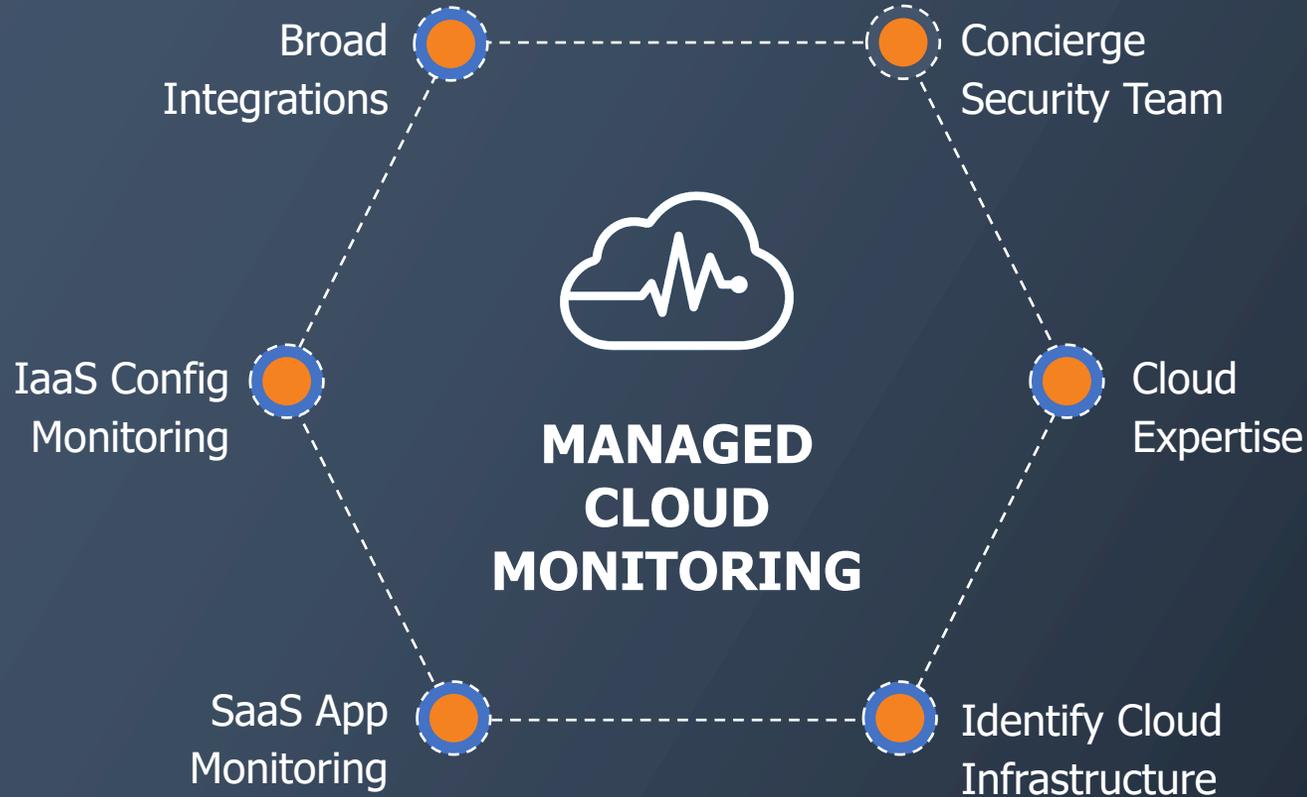
Know when you're exposed and prioritize security posture improvements

80%

Of threats can be prevented by meeting the top 5 CIS controls



Arctic Wolf Solutions



Identify

Identify exposed cloud platforms and accounts to understand risks, such as unsecured S3 buckets and unauthorized cloud deployments

Monitor

Monitor IaaS services for configuration risks, and SaaS apps for key threats and indicators of compromise

Simplify

Streamline cloud security with cloud experts plus concierge deployment and management

47%

Of the incidents we detect include a cloud component



Better Protection Against All Attack Types

Dwell Time



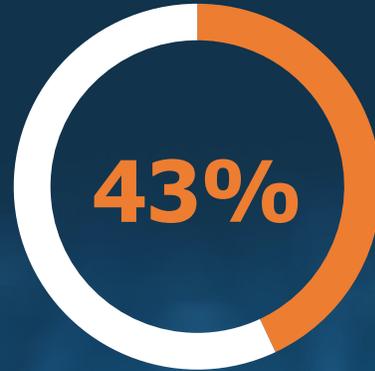
Industry average time to identify an intrusion is 206 days. Arctic Wolf does it in 30 minutes or less.

Phishing



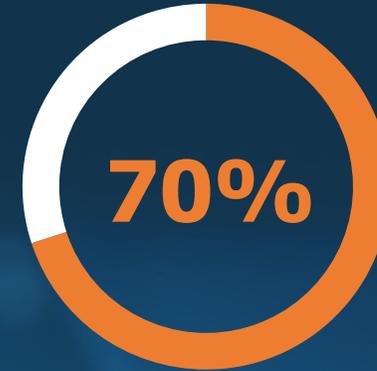
Of customers have phishing activity that is missed by email security but caught by Arctic Wolf

Advanced Threats



Of customers have advanced threat activity being missed by security tools but caught by Arctic Wolf

Account Takeover



Of customers have some PII exposure and 5.5% have plaintext passwords exposed online

Unpatched Vulnerabilities



Reduction in time to patch critical vulnerabilities after activating Arctic Wolf



WHY ARCTIC WOLF?

Our innovative platform and concierge delivery model enable us to provide better protection in a way that is uniquely fast and cost effective.





PERSONAL | PREDICTABLE | PROTECTION

THANK YOU

arcticwolf.com



Architecture

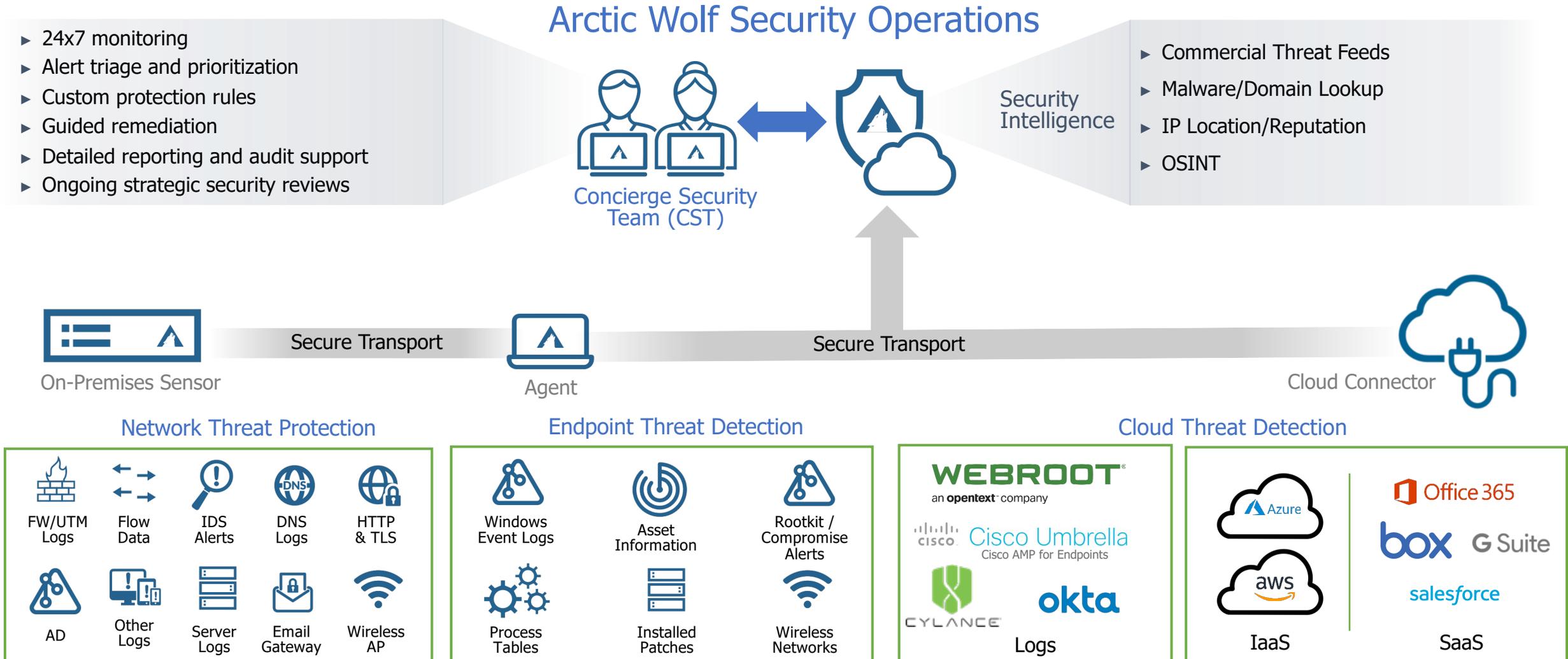
Matt Collman – Sales Engineer



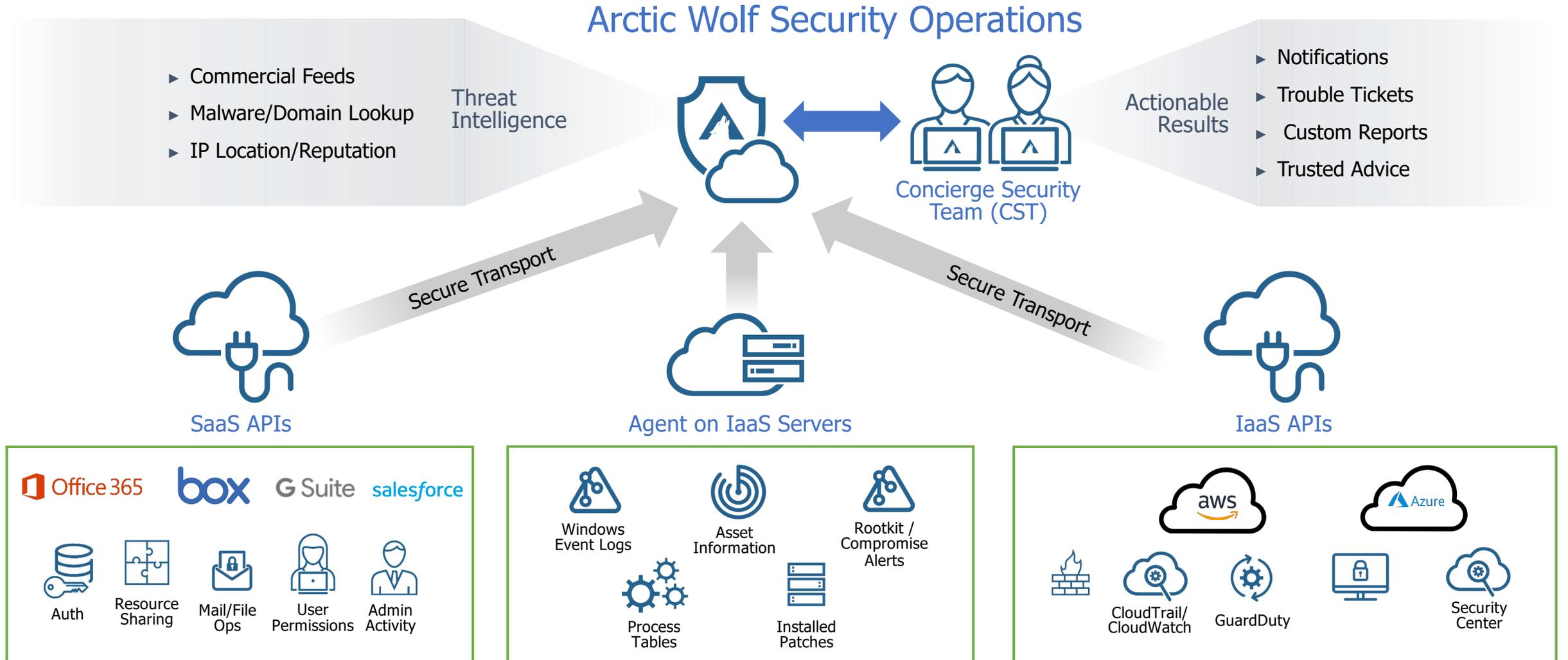
Arctic Wolf Validation



Managed Detection and Response Architecture



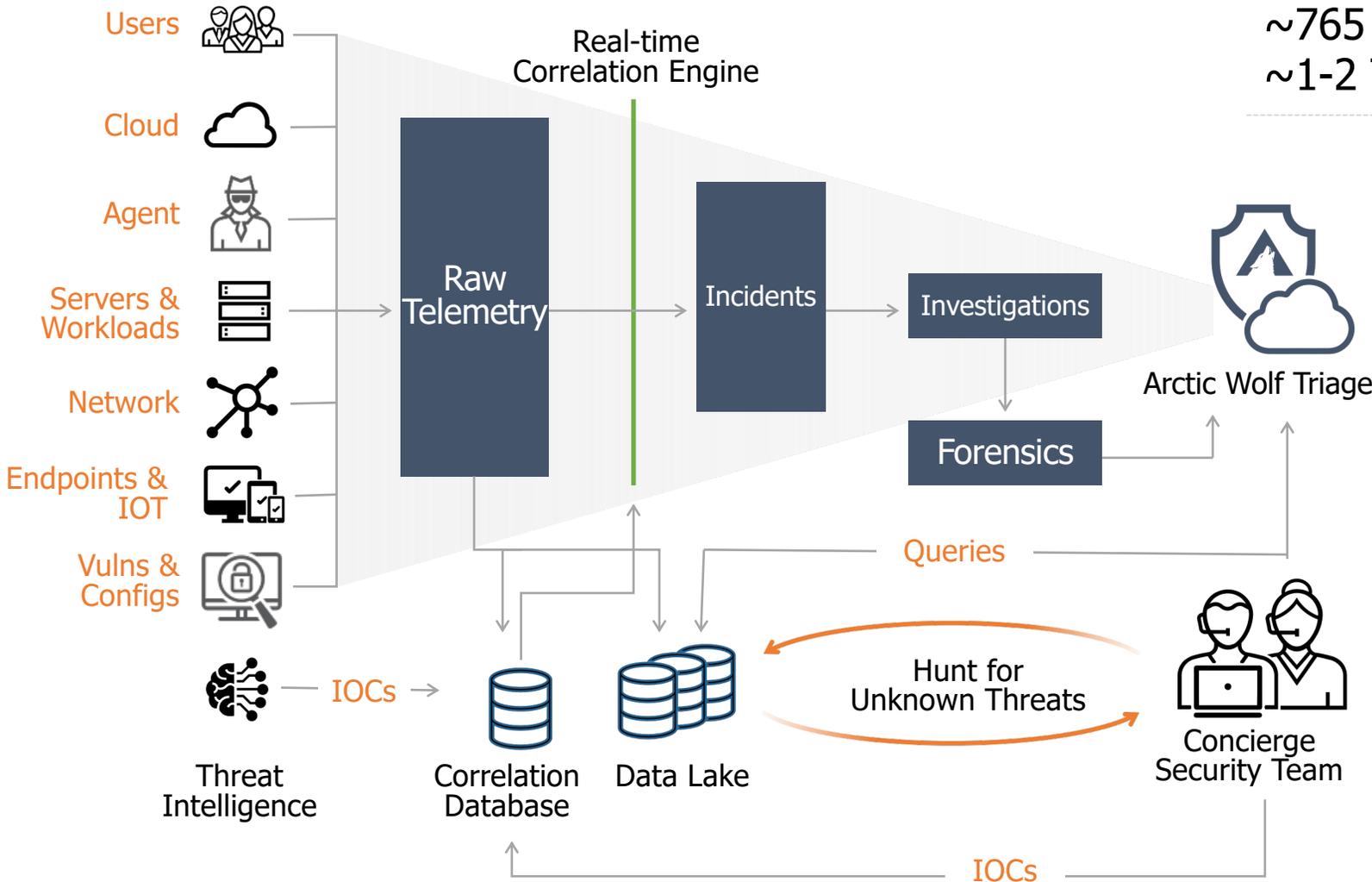
Managed Cloud Monitoring Architecture



Arctic Wolf SOC Process

~165M Observations/Week
 ~765 Investigations/Week
 ~1-2 Tickets/Week

450 Users
 150 Servers
 4 Sensors



Identify

- ▶ Detect threats across network, endpoint, and cloud.
- ▶ Expert analysis of IOCs across entire attack surface using a purpose-built cloud platform
- ▶ Discover vulnerabilities and misconfigurations

Act

- ▶ Guidance and prioritization for remediating threats, vulnerabilities, and risks.
- ▶ Detailed recovery and hardening recommendations with closed-loop follow-up

Improve

- ▶ Hunt for Advanced threats across endpoints, network and Cloud with deep analytics and human expertise
- ▶ Security Journey program to improve overall security posture

Concierge Security Team (CST)

The Arctic Wolf® Concierge Security® Team (CST) continuously monitors security events enriched and analyzed by the Arctic Wolf® Platform to provide your team with coverage, security operations expertise, and strategically tailored security recommendations to continuously improve your overall posture.

EXPERTISE

Deliver execution and operational excellence with skills required to detect advanced threats and manage risks in a way that's customized to your environment.

► Security Operations Experts

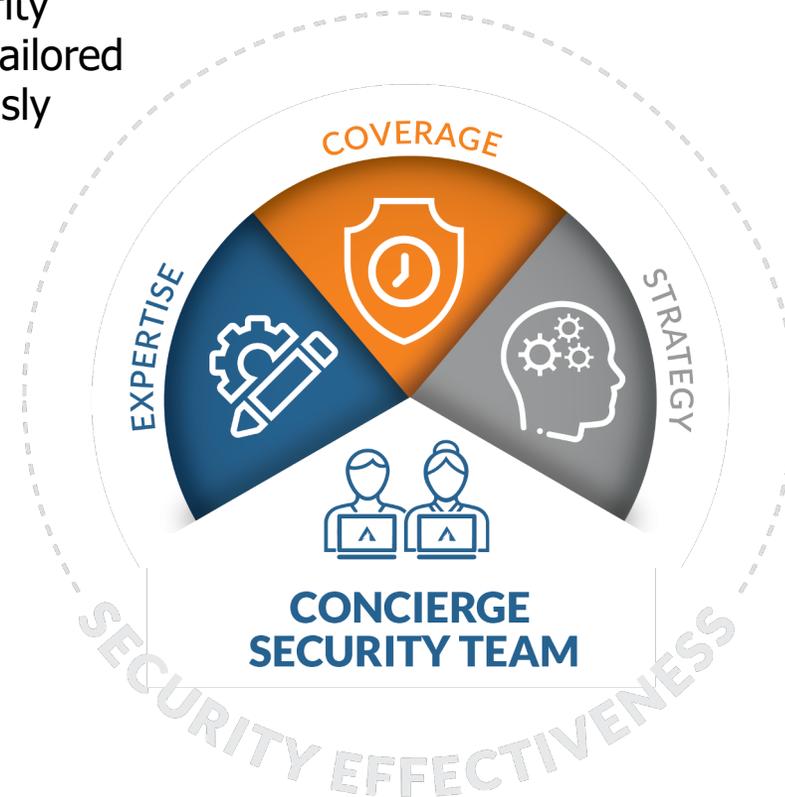
- Hundreds of years of combined experience with cybersecurity accreditations like CISSP, HCISPP, CCSP, CISM, CRISC

► Proactive Threat Hunting

- Daily hunting for suspicious activity across your environment

► Informed Incident Insights

- Filter out the noise to reveal what happened, and what to do about it



COVERAGE

Work around the clock to triage critical events and deliver actionable insights when you need them the most.

► 24x7 Continuous Monitoring

- Your environment is monitored around the clock for threats and risks

► Five-Minute Response

- Detect and alert on critical events within five minutes

► Real-Time Remediation

- Rapidly contain incidents and get detailed guidance on remediation

STRATEGY

Strategic security guidance drives continuous improvement that's tailored to the specific needs of your organization.

► Security Posture Reviews

- Evaluate the root cause of threats and get prioritized recommendations to improve posture

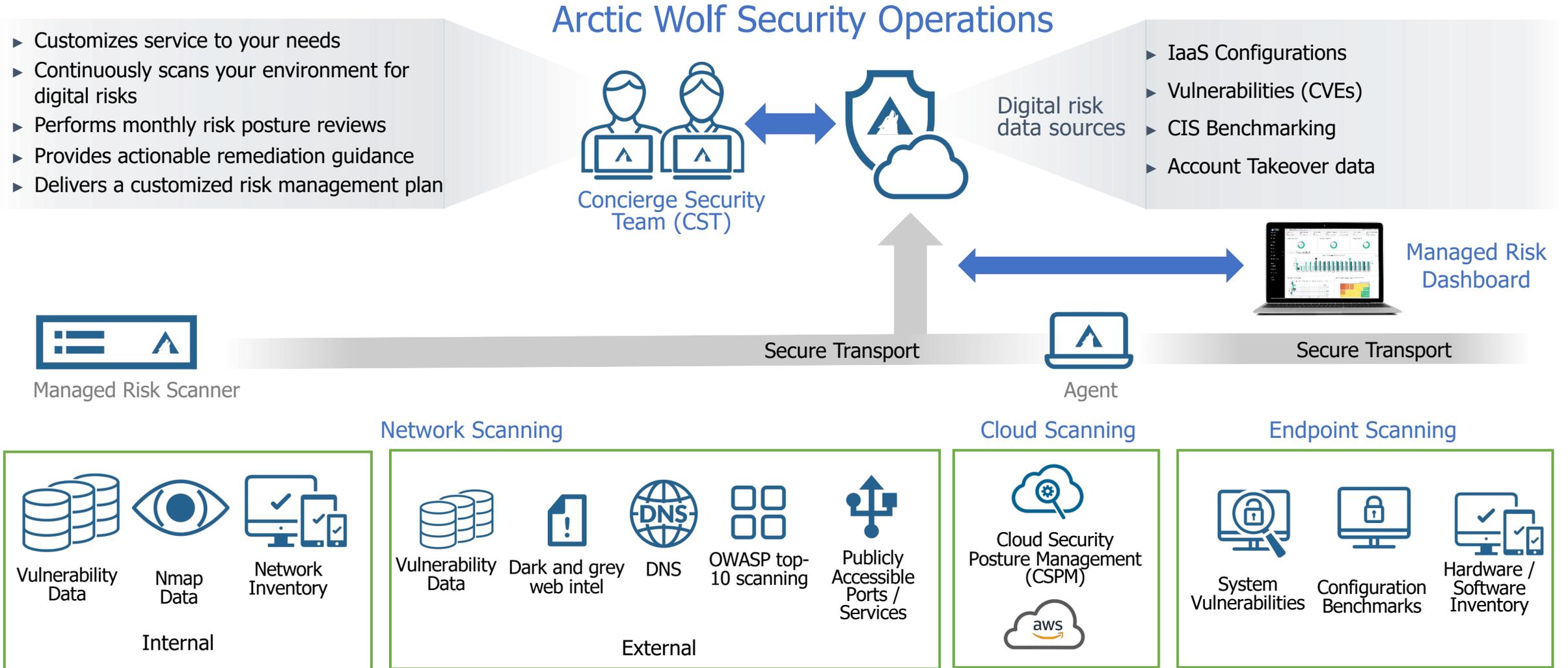
► Named Advisors

- Trusted security operations experts paired with you to deliver tailored triage and strategic guidance

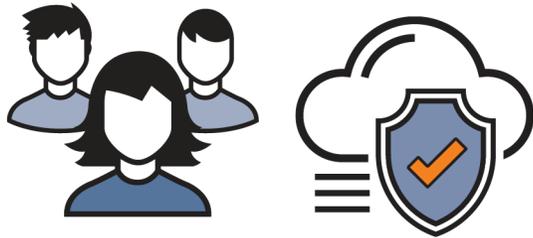
► Security Journey Guidance

- Quarterly reviews to help you design, implement, and achieve your security vision

Managed Risk Architecture

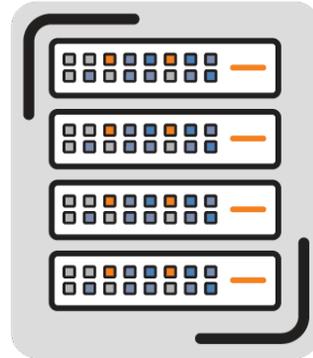


Predictable Pricing



Users

Employees and SaaS Application
User



Servers

Physical + Virtual Count



Sensors

One for Each Firewall

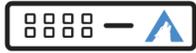
Personal | Predictable | Protection



Questions

WannaCry Kill Chain

- How Arctic Wolf CyberSOC services can detect ransomware throughout the kill chain



External and Internal scans will notify and recommend patches and config changes for known SMB port vulnerabilities used by WannaCry



User unknowingly opens email attachment.



WannaCry exploits SMB port vulnerability in Windows.



WannaCry installs on laptop and sends crypto key pair to C&C



WannaCry encrypts all files with encryption key and displays ransom note



User decrypts all files with key and recovers from shutdown



Reconnaissance



Weaponization and Delivery



Exploit



Install



Command and Control

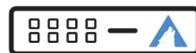


Action

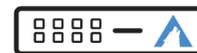
Hackers sends email with WannaCry in attachment



Host-based and Internal scans would detect vulnerabilities



Network sensors can detect connections to known hacker domains and C&C sites and block traffic



C&C saves decryption key and waits for instructions



Hacker sends decrypt key to user when ransom is paid

