

# SLAIT Consulting

## Threat Ops

End Point -

*First line of defense*

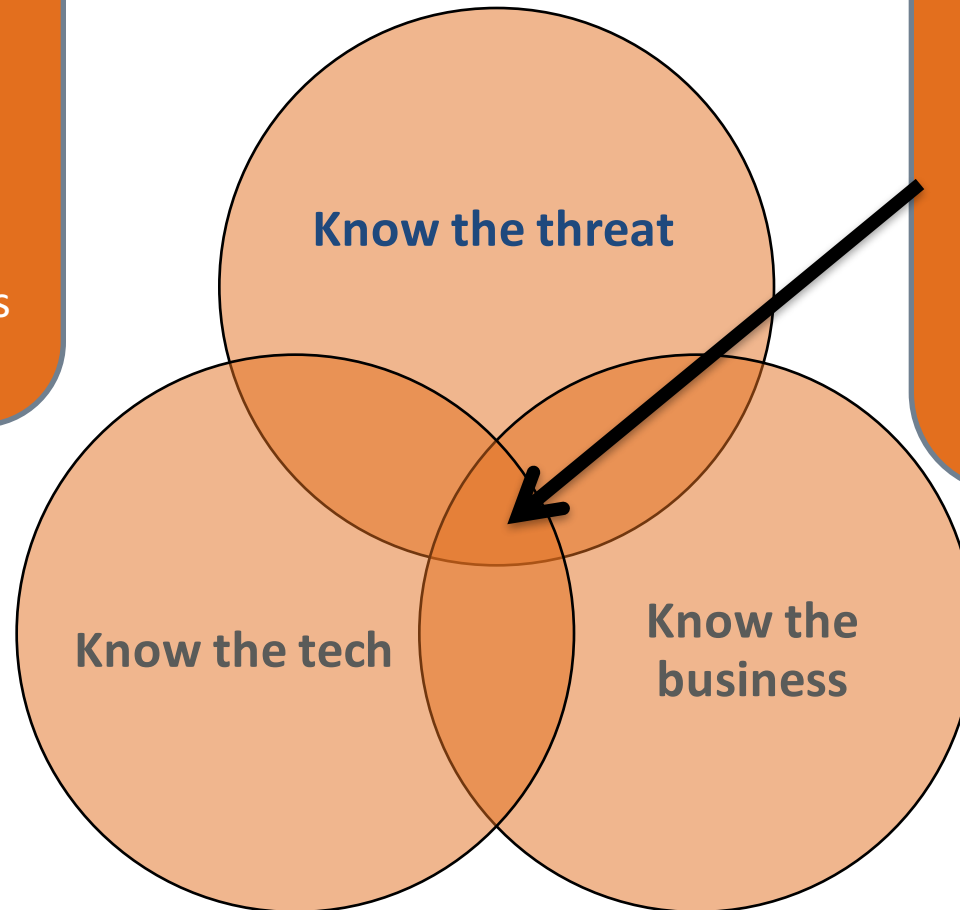
# Why are the Good Guys losing?

- Evolving Threats (Bad guys are getting better)
- Program Maturity / Investment Challenges
- Security Staffing Challenges
- Over-reliance on security technologies
- Alert Fatigue (Information overload)

# You are Special

Your business really is special

- Different threat landscape
- Different tech stack
- Different business processes



Hunting means:

- Understanding your business-specific threats and motivations
- Understanding your tech stack and blind spots
- Understands the business and what's "normal"

# Lets face the facts

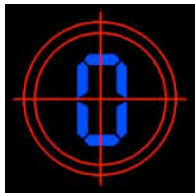


Attackers are well funded and sophisticated



91%

Increase in targeted attacks in 2013

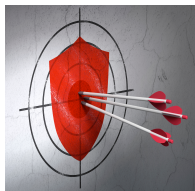


Launching Zero-Day attacks are more accessible and common



78%

Of exploit kits utilize vulnerabilities less than two years old



Targeted attacks can only be solved on the endpoint



71%

Of Breaches involve a targeted user device

# What do I mean when I think end point?

- Symantic
- Kaspersky
- Bitdefender
- Sophos
- McAfee

- SLAIT Security
- Crowdstrike
- FireEye (Mandiant)
- Fidelis

AntiVirus, White listing, AntiSpam, IPS,  
Patch management

Active hunting capable, No Blocking, DVR,  
Live response capable, includes threat  
intelligence, Sand box, Security analytics

# Typical vulnerabilities on the Endpoint?

Endpoint = Desktop, Laptops, Servers, IoT (anything with an OS)



- Operating System (Windows, Linux, OSX)
- Browser
- Application

# Why the endpoint?

- Visibility with off network activity
- Solves encryption problem
- Attack surface (endpoint is the preferred target)
- VPN to unauthorized networks (logging network connections)
- Data creation and transmission point

# Why “Hunting at the endpoint”?

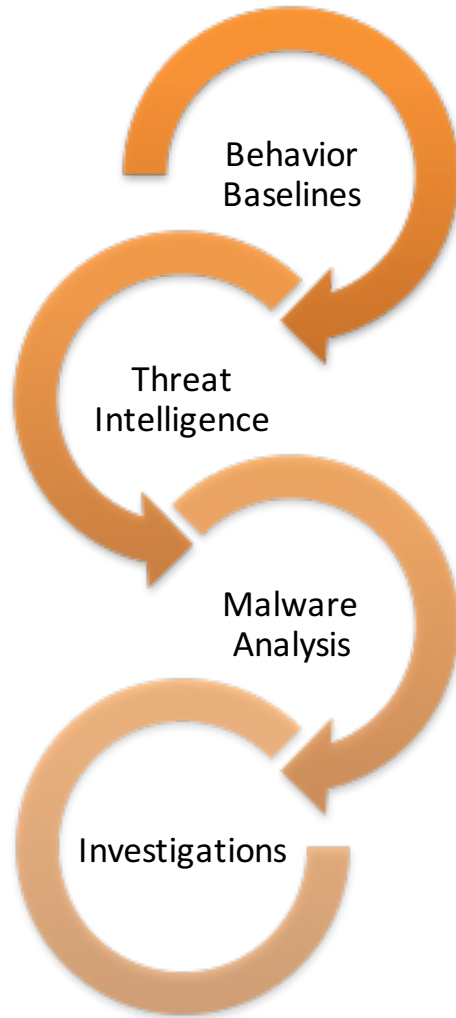
- Active hunting vs. passive alerting
- Search for adversaries without explicit warnings
- BYO Breach Notifications
- Reduce “Dwell Time”
- Control the messaging and response (First to know)
- Effective “off network”



# How do you hunt for threats?

- Add Endpoint visibility
- Utilize the tools you have
  - SEIM/Splunk
  - Palo Alto Wildfire / FireEye
  - IDS/IPS/HIDS
  - Centralized A/V
- Find “context” in every alert
- Customize alerts for your environment

# Hunting Methodology



## **Behavioral Baseline**

Looking at Operating System activity to discover potential security incidents

## **Threat Intelligence**

Determining if existing activity matches “known bad” indicators

## **Malware Analysis**

Take every executed application within the enterprise and determining if the binary shows any potential high-risk behaviors

## **Investigations**

All suspicious activities are put into the SLAIT investigation framework to determine potential impact to the client

# Let's talk tech...

## ○ Endpoint Detection & Response



## ○ Advanced Prevention



## ○ Network



## ○ Open Source



# Top 10 places to look for Badness

- Processes
- Persistence
- User Account Behavior
- IP/Domain connections
- Admin Tool or Exfiltration files
- Geography of network connections
- Network Activity/Volume
- AV Logs
- Driver Stack
- Advance Malware logs

# Bringing it home

- Figure out what's normal in your environment and build anomaly alerting – add context
- Start with tracking down alerts or events you already have – integrate threat intel
- Attacks usually start with endpoints
- Be proactive! Don't wait for someone else to notify you of a compromise - reduce “threat persistence / dwell time” window
- Integrate with defensible security program

# SLAIT ThreatManage

## Managed Services – Incident Response

- Provides full management of Client IR and Security Operations solutions from the SLAIT Services team
- **Includes Active Hunting & Passive Monitoring**
- Shared console and shared threat intelligence
- Scales easily – every dataset adds value to system
- Assumes day-to-day operations with focus on improvement
- Expert team of IR and Threat Hunting staff
- Utilizes “best-of-breed” endpoint technology

*Secure, specialized, scalable*

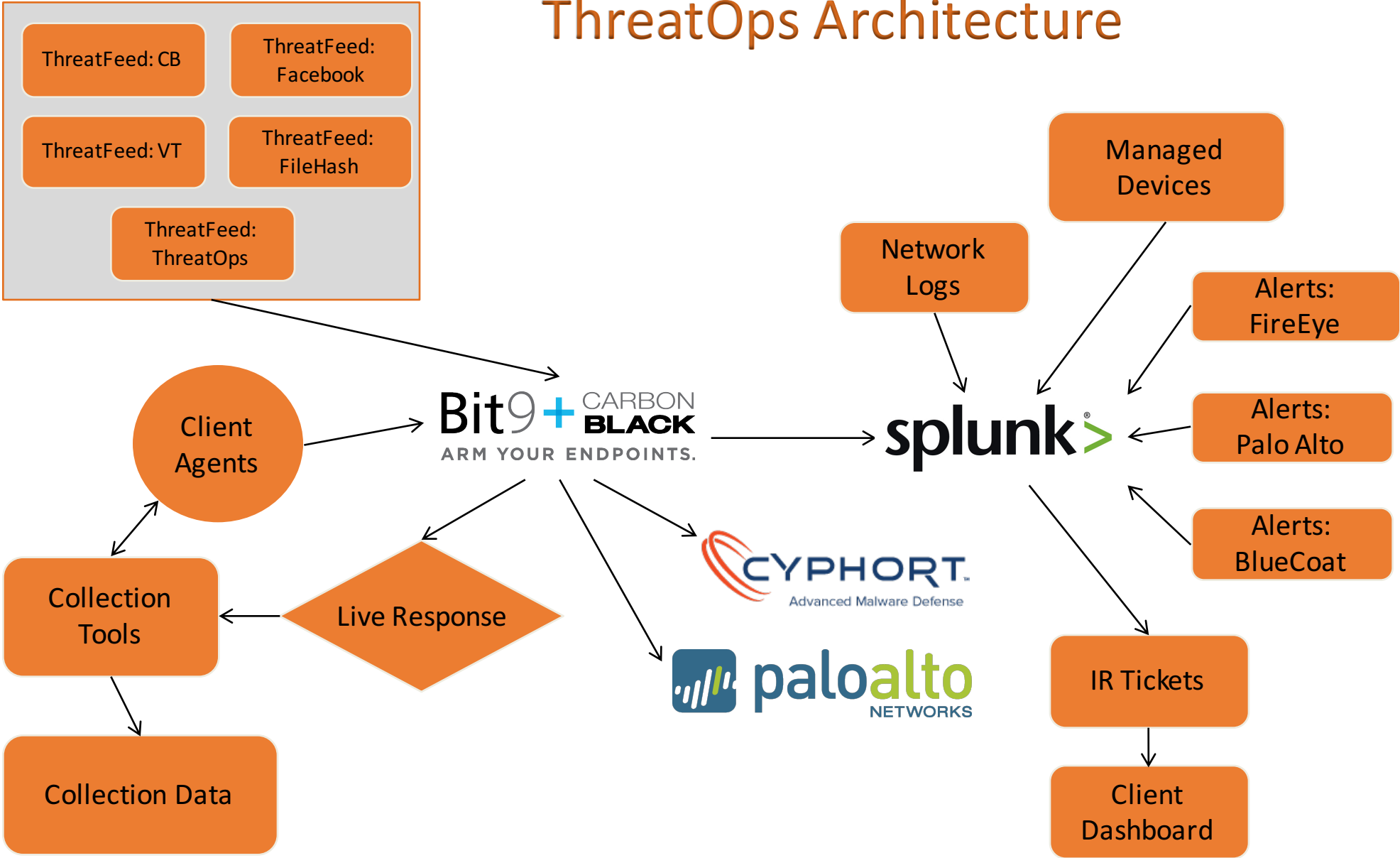
- Discover & hunt
- Detect & alert
- Volatile collection & analysis
- Stop, Triage, Destroy & Recover



Let SLAIT assume the complexity, difficulty, and risk of an enterprise-level threat operations while providing advanced threat intelligence & expertise

**True IR-as-a-Service**

# ThreatOps Architecture



# Questions?

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