

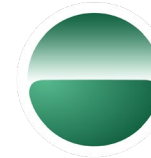


12TH ANNUAL LEADERSHIP EVENT

CYBER SECURITY SUMMIT

Security solutions through collaboration.™

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Island

EYES WIDE OPEN



CYBER SECURITY SUMMIT
Security solutions through collaboration.™

12th Annual Cyber Security Summit | October 24-26, 2022

cybersecuritysummit.org

What Are the Challenges Most States and Local Government Face Today?



Joe Marshall

Sr. Strategist ICS/Threat
Research, CISCO Talos

Cisco Security Research



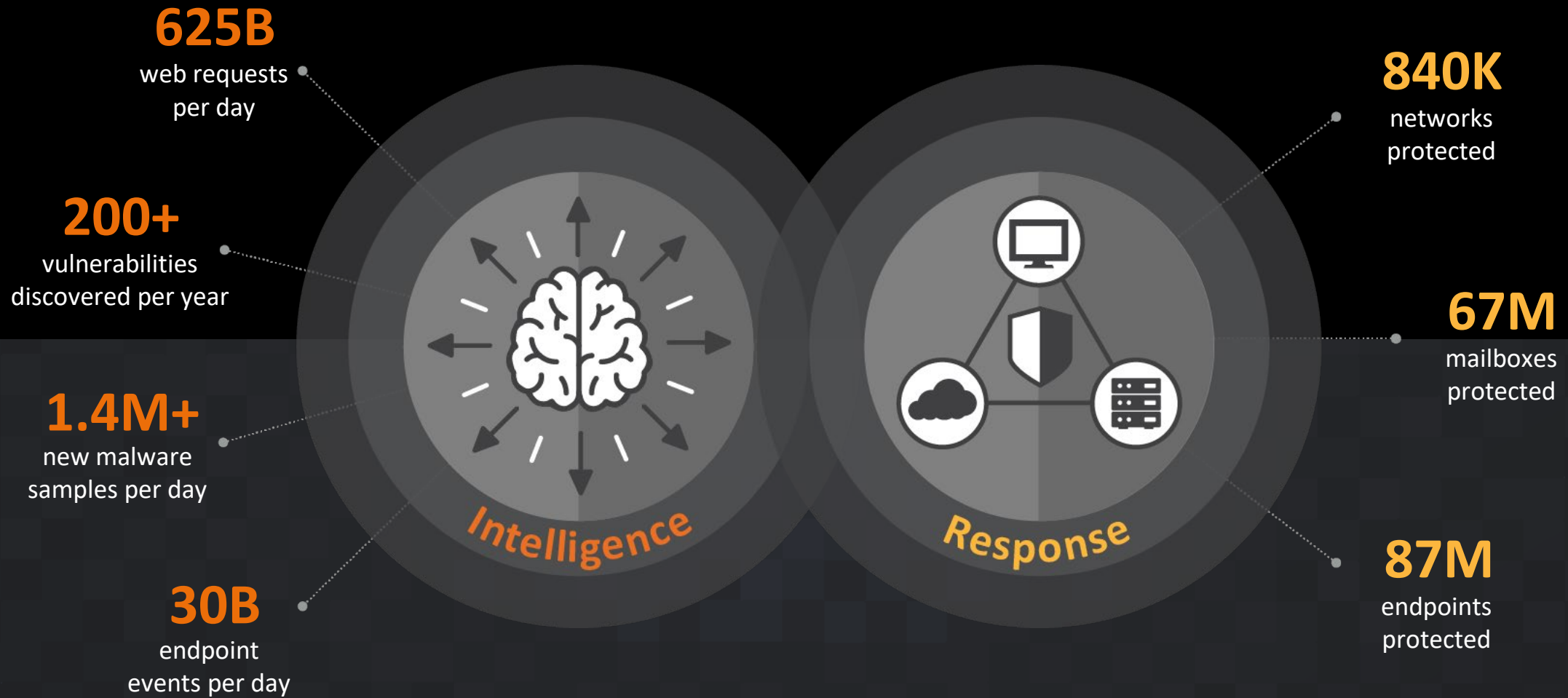
Fighting the Good Fight

Our job is protecting your network

Talos is the threat intelligence group at Cisco. We are here to fight the good fight — we work to keep our customers, and users at large, safe from malicious actors.



Talos tracks numerous threats



Cyber attacks in Ukraine

Seven plus months into the invasion



NotPetya: The Costliest Cyber Attack in History



Unmatched Visibility



AMP



Ukraine Cyber Police



Snort rules



Actionable Intelligence



Gathering IOCs



Highly destructive supply chain attack



Cyber weapon targeting the general public



One of the costliest cyber attacks in history



Collective Response



Field engagement



Shipped protection



Snort rules



Blogs



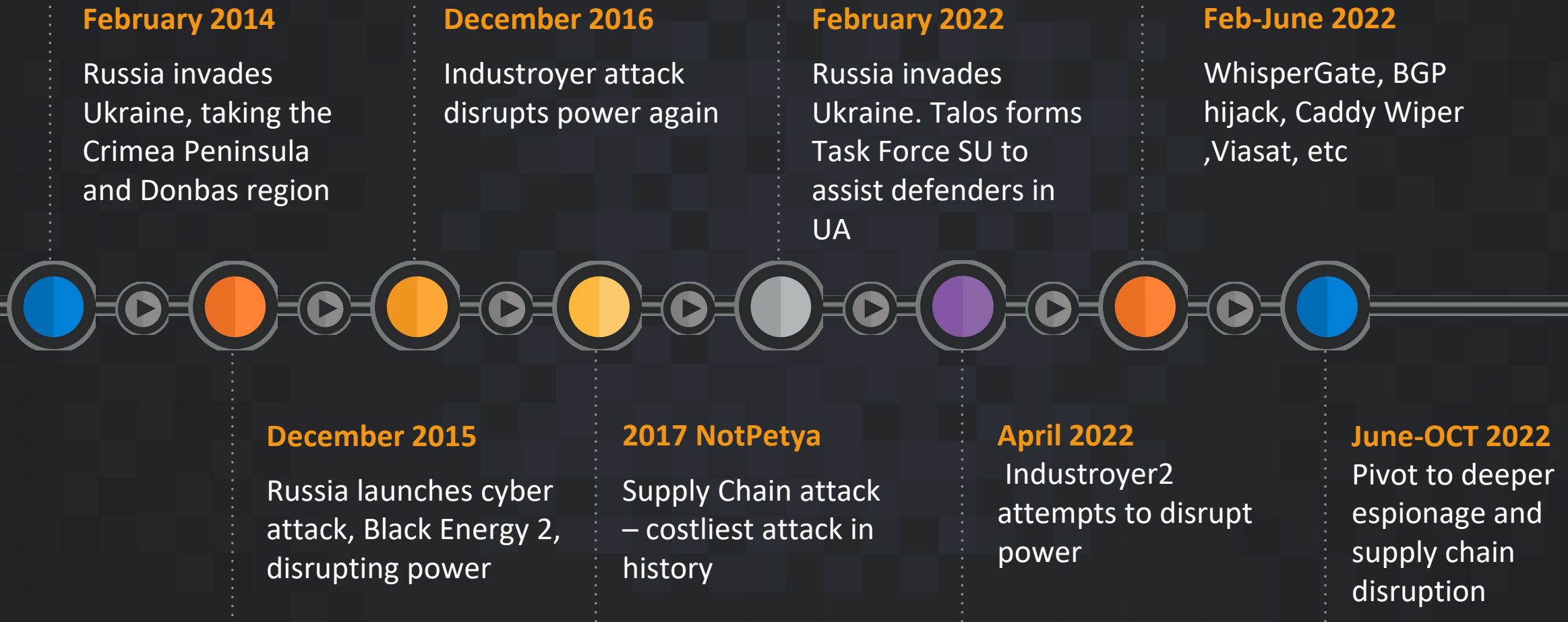
Consumable IOCs



Product maturation



A refresher of cyber attacks in Ukraine



What's new?

- Objectives have shifted - rebuilding infrastructure for new attacks
- Evidence that additional supply chain-based attacks are being planned
- Strong pivot into espionage – Baltic states, and Eastern Europe, along with other NATO countries
- Adversary OPTEMPO remains strong



Supply Chain and GoMet in Ukraine

- Targeted a massive supplier in Ukraine
- Absolute viability in unconnected systems
- Few, if any, look for or know about it
- Sounds a little familiar....

```
#> ./GoMet
```



by Mimah

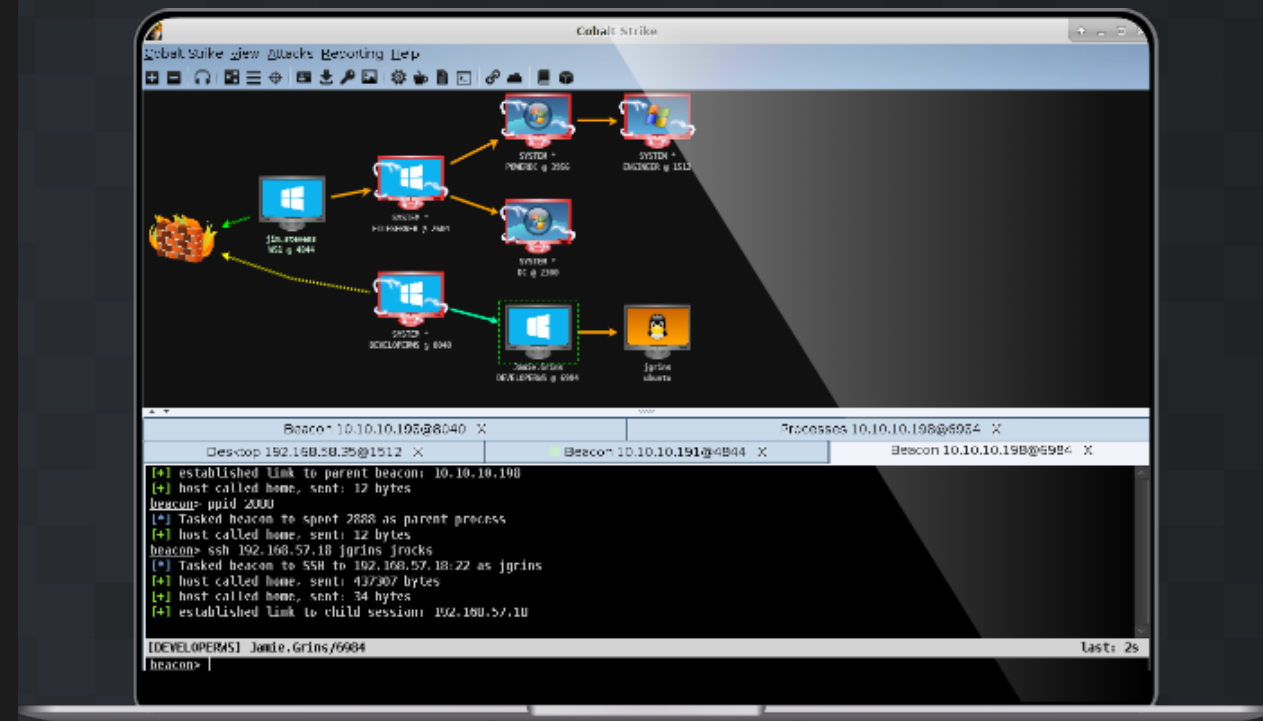
```
server > info
Local listener: 0.0.0.0:8888
Socks listener: 127.0.0.1:9050
HTTP magic: khRoKbh3AZSHbix
server >
server > help

Commands:
clear      clear the screen
exit      Exit
generate   Generate an agent
help       display help
info       Print server information
routes     List routes
sessions   List sessions
```

Cobalt Strike Beacon Chain?

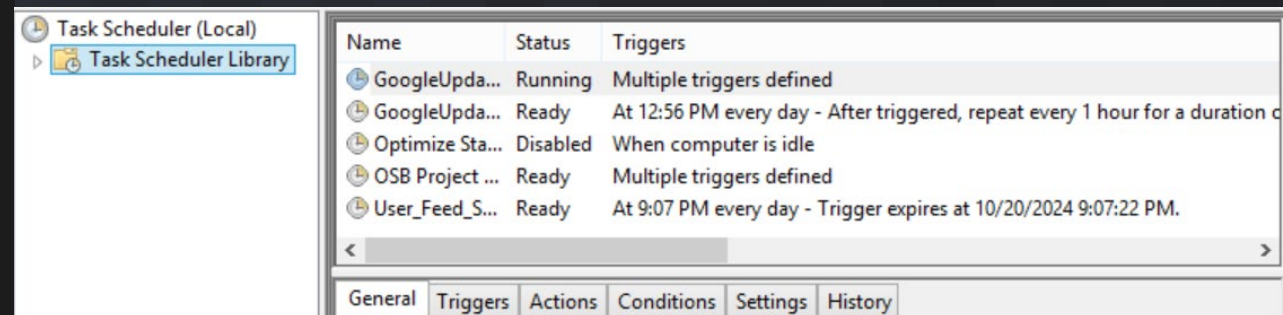
(GoMet is better I think)

<https://blog.talosintelligence.com/2022/07/attackers-target-ukraine-using-gomet.html>



Super slick persistence

- Old tactic with a twist
- Task PE replacement!
- Good 'ol MITRE ATT&CK T053



Like COM hijacking (but simpler)

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Created
CacheTask	Ready	At log on of any user		23/04/2019 20:03:30	(0x800401F9)	Microsoft	

General	Triggers	Actions	Conditions	Settings	History
When you create a task, you can specify the conditions that will trigger the task. To change these triggers, open the task property pages using the Properties command.					
Trigger	Details	Status			
At log on	At log on of any user	Enabled			

File Edit View Favorites Help			
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Classes\CLSID\{0358b920-0ac7-461f-98f4-58e32cd89148}\InProcServer32			
	Name	Type	Data
>	{034AD88A-55AF-424B-96FF-37AC6CF5688D}		
>	{0358b920-0ac7-461f-98f4-58e32cd89148}		
>	InProcServer32		
>	{0363215C-3B87-4C3D-8300-FF3FD3E02B91}		
>	{0369B4E5-45B6-11D3-B650-00C04F79498E}		
>	{0369B4E6-45B6-11D3-B650-00C04F79498E}		
>	(Default)	REG_EXPAND_SZ	%systemroot%\system32\wininet.dll
>	ThreadingModel	REG_SZ	Both

Computer\HKEY_CURRENT_USER\Software\Classes\CLSID\{0358b920-0ac7-461f-98f4-58e32cd89148}\InProcServer32			
	Name	Type	Data
>	{018D5C66-4533-4307-9B53-224DE2ED1FE6}		
>	{021E4F06-9DCC-49AD-88CF-ECC2DA314C8A}		
>	{031E4825-7B94-4dc3-B131-E946B44C8DD5}		
>	{0358b920-0ac7-461f-98f4-58e32cd89148}		
>	InProcServer32		
>	(Default)	REG_EXPAND_SZ	c:\tools\demo.dll
>	ThreadingModel	REG_SZ	Both

Talos continues to support Ukraine cyber

Additional threat hunters added



- Over 650 threat hunters across Cisco supporting Ukraine
- Active collaboration with threat hunters and incident response teams in Ukrainian private and public industry

Deep telemetry into Ukraine cyber space



- Over 30 critical industries being actively monitored
- 22,000+ endpoints being actively monitored
- Actively monitoring new behaviors and tactics
Russian APT's are utilizing real time

What can you do?



Nothing we have seen in Ukraine changes our recommendations



Everything that you know you're supposed to be doing is what you should do



You know where you have "accepted risk"

- Revisit that decision
- Harden that environment
- Isolate and monitor aggressively



Focus intelligence activities to understand current Russian and unattributed activities and react quickly

Understanding ransomware & Russia & you

Financial crimes and geopolitics



A preface on cartels




TALOS

Russia and the Cartels



Example: Conti Cartel (RIP)

“WARNING”

 The Conti Team is officially announcing a full support of Russian government. If any body will decide to organize a cyberattack or any war activities against Russia, we are going to use our all possible resources to strike back at the critical infrastructures of an enemy.

 2/25/2022

 62

 0 [0.00 B]

Admin Access for Sale

Selling access to UAE GOV and Companies Active Directory networks - Full **network Access**(Domain Admin + WebShell + NTDS + Creds)

Oil Corporation - Full **Network Access**(Domain Admin) 2000\$

Police - Full **Network Access**(Domain Admin) 2000\$

"Turkish Hacker"

4 Replies



1 drumrlu | 6/30/2020, 8:57:21 PM

Saudi Arabic health insurance - Full **Network Access**(Domain Admin)

"Turkish Hacker"

SELLING [LUX] Network Access - US Company

by isGunboom - September 17, 2020 at 02:30 PM

★ isGunboom



V.I.P User

VIP

Posts 20
Threads 7
Joined Sep 2020
Reputation 0

September 17, 2020 at 02:30 PM

Welcome to LUX

Company Info:

Location : US
Market : Logistics
Revenue : \$ 30 million
Employees : 150

Access : Domain Admin

Finance and Employee info gotten from ZoomInfo.

Price: \$ 500

👑 attak



GOD User

GOD

Posts 5
Threads 1
Joined Apr 2018

September 21, 2020 at 09:45 AM

attak Wrote: →

(September 14, 2020 at 11:22 AM)

Access Type: Domain Admin
Industry: Cyber Security, Homeland Security, SCADA Services
Location: Israel
Price: \$3200
Host in the network : 300+

SELLING Selling Network Full Access (Domain Admin)

by 3lv4n - July 08, 2020 at 09:34 PM

The Admin

Pages (3): 1 2 3 Next »

👑 3lv4n



CyberPunk Hacker

GOD

Posts 69
Threads 15
Joined May 2020
Reputation 571



July 08, 2020 at 09:34 PM

Electric Power Company - Amman - Employees:8,150 Revenue: \$719 Million (Domain Admin+NTDS+Full internall network info)

Hospitals - Saudi Arabia - Employees: 7,400 Revenue: \$1 Billion (Domain Admin+NTDS+Full internall network info)

Insurance - Thailand - Employees: 520 Revenue: \$131 Million (Domain Admin+NTDS+Full internall network info)

insurance - Saudi Arabic - Full Network Access(Domain Admin+NTDS+Full internall networkro info) Price: \$3200

Only Sell TO Verified Users, For More Info Pm Me.

davidarnold0151

September 04, 2020 at 05:26 AM This post was last modified: September 04, 2020 at 05:27 AM by davidarnold0151. Edited 1 time in total.

Access: Domain Admin

Other details on PM and only if you are serious about buying it.

2022: Data Exfiltration


BlackMatter - Tor Browser

Problem Black X BlackM 414 Req BlackM Problem BlackM BlackM BlackM BlackM BlackM blackmax7 logo.png

blackmax7su6mbwtcyo3xwtpfxpm356jjqrs34y4crcypw7mfuedyd.onion

BlackMatter Ransomware

FOR MEDIA CONTACT US



National Beverage


NATIONALBEVERAGE.COM

DATA SIZE 210 GB

Data contains:

- Finance
- Contracts
- Projects
- Marketing
- HR - Employees PII data (SSN, DOB, etc.)
- Legal

PUBLISHED GO TO POST



Keycentrix


KEYCENTRIX.COM

DATA SIZE 285 GB

Data contains:

- Product source codes
- Customer credit cards
- Accounting
- Contracts
- NDA
- Projects

PUBLISHED GO TO POST



LA-Martiniquaise


LA-MARTINIQUE.COM

DATA SIZE 30 GB

Data contains:

- Banking
- Details of agreements
- Contracts
- Internal company docs
- Customers files
- Customers Data

PUBLISHED GO TO POST




JMclaughlin

JMCLAUGHLIN.COM

DATA SIZE 300 GB

Data contains:

- Banking
- Details of agreements
- Contracts
- Internal company docs



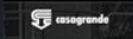
BCP Securities

BCPSECURITIES.COM

DATA SIZE 14 GB

Trading operations, brokerage accounts and data.

- Banking
- Details of agreements
- Contracts



CasagrandeGroup

CASAGRANDEGROUP.COM

DATA SIZE 11 GB






Data contains:

- Banking
- Details of agreements
- Contracts
- Internal company docs

Blackbyte

BLACKBYTESUPPORT@ONIONMAIL.ORG

▶ BLACKBYTE ◀

Victim icon	<Victim name removed>		Victim icon	<Victim name removed>	
Victim icon	<Victim name removed>		Victim icon	<Victim name removed>	
Victim icon	<Victim name removed>		Victim icon	<Victim name removed>	
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Victim icon	<Victim name removed>		Victim icon	<Victim name removed>	

Example



Claptrap Tuesday, 8:02 AM

[Vice Society] Marist College Ashgrove

data_url: <http://xu66gzit6zp22qvixpenlxu2ok7vzrpqvgkuupkiu>

victim_website: <http://www.marash.qld.edu.au/>

victim_country: Australia

1 | Marist College Ashgrove was officially four

[Vice Society] Pate's Grammar School

data_url: <http://xu66gzit6zp22qvixpenlxu2ok7vzrpqvgkuupkiu>

victim_website: <http://www.patesgs.org/>

victim_country: United Kingdom

1 | Pate's Grammar School is a grammar school v

[Vice Society] Test Valley School

data_url: <http://xu66gzit6zp22qvixpenlxu2ok7vzrpqvgkuupkiu>

victim_website: <http://www.testvalley.hants.sch.uk/>

victim_country: United Kingdom

1 | Test Valley is a small, rural, high achievi

[Vice Society] Mars Area School District

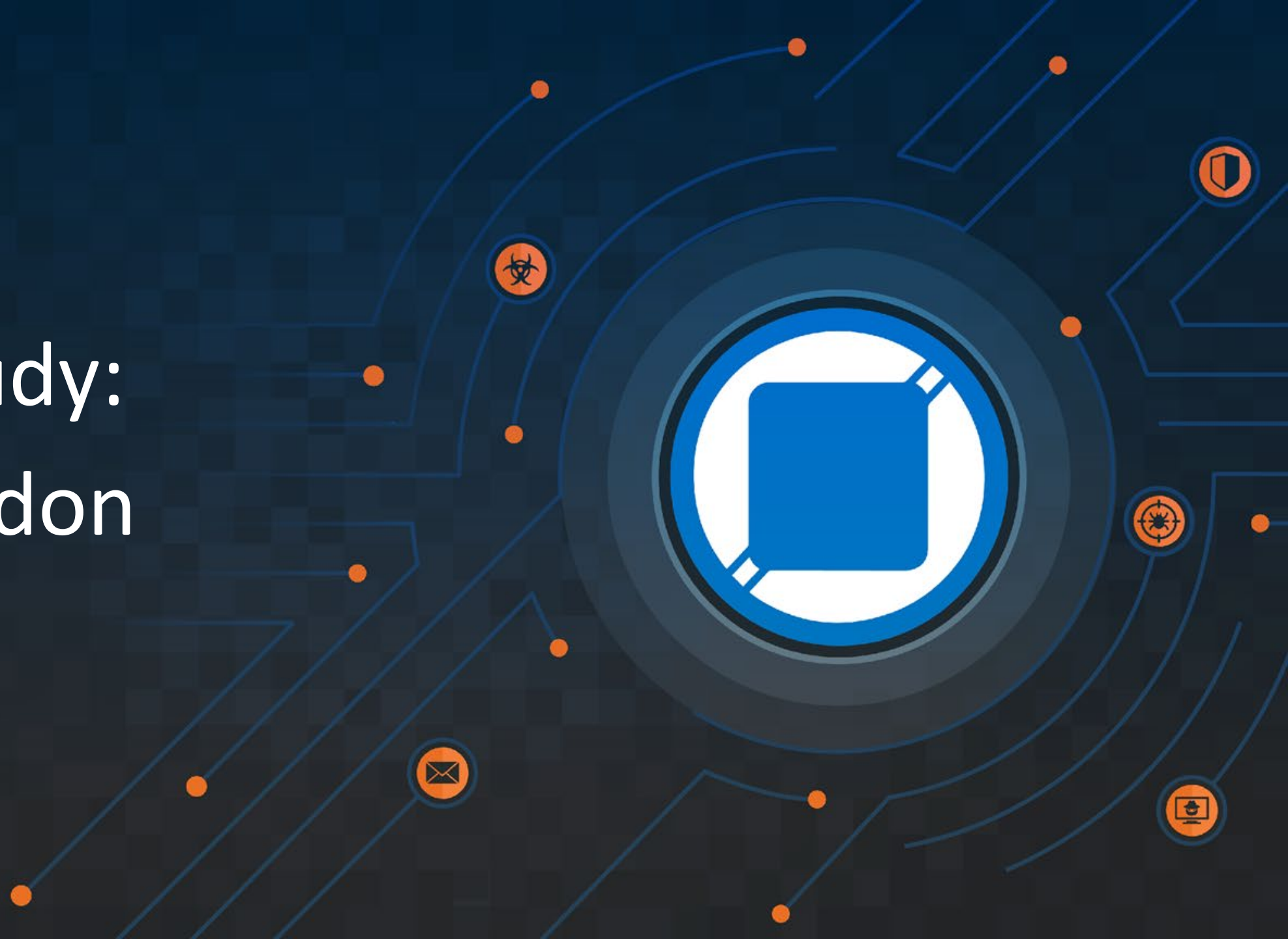
data_url: <http://xu66gzit6zp22qvixpenlxu2ok7vzrpqvgkuupkiu>

victim_website: <http://www.marsk12.org/>

victim_country: United States

1 | Mars Area School District is a public schoo

Case Study: Gamaredon



Who is Gamaredon?

ACTOR PROFILE

Gamaredon Group

TALOS

Aliases

Primitive Bear, Armageddon, Shuckworm, Winterflounder, BlueAlpha, BlueOtso, IronTiden, SectorC08, Callisto, Trident Ursa

Affiliations

Russia

Active since

2013

Goals

Espionage, data theft, establishing long-term access

Victimology

Actively targets Ukrainian entities, specifically government organizations, critical infrastructure and entities affiliated with Ukraine's defense, security and law enforcement apparatus. Secondary operations include broad targeting of entities in Europe and globally, including, government, military, humanitarian and non-profit organizations.

Notable TTPs

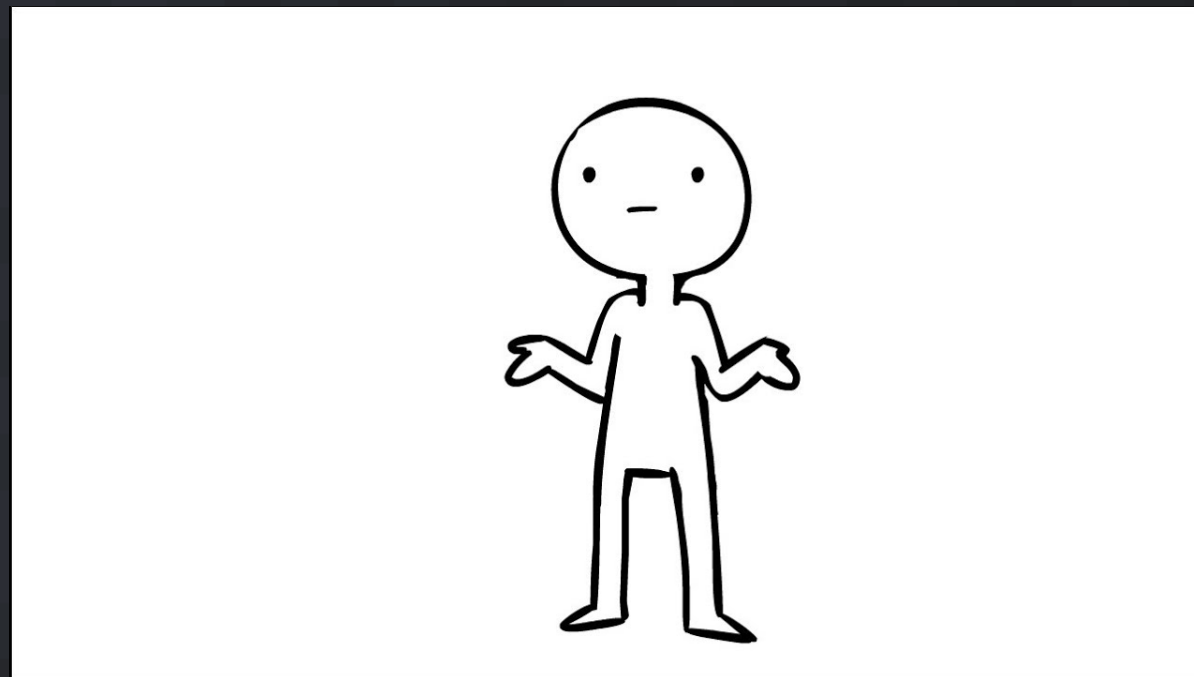
Social engineering techniques, spear-phishing, compromised domains and dynamic DNS, long-term access, data exfiltration, custom script-based malware.

Malware & tooling

Gamaredon employs a variety of custom, self-developed implants that are used exclusively by the adversary ranging from customized script-based malware to infostealers and backdoors. Notable malware families include GammaLoad, GammaSteel, Giddome, Powerpunch and Pterodo.

Sophisticated APT? Well. Kinda.

- Very capable
- Also very loud
- Suggestive of tradecraft that is effective but inelegant.
- Yeah, it's kinda weird
- Pre-War: Unfocused.
- War: Ukraine



What do we take away from this?

Tactics, strategy, resilience

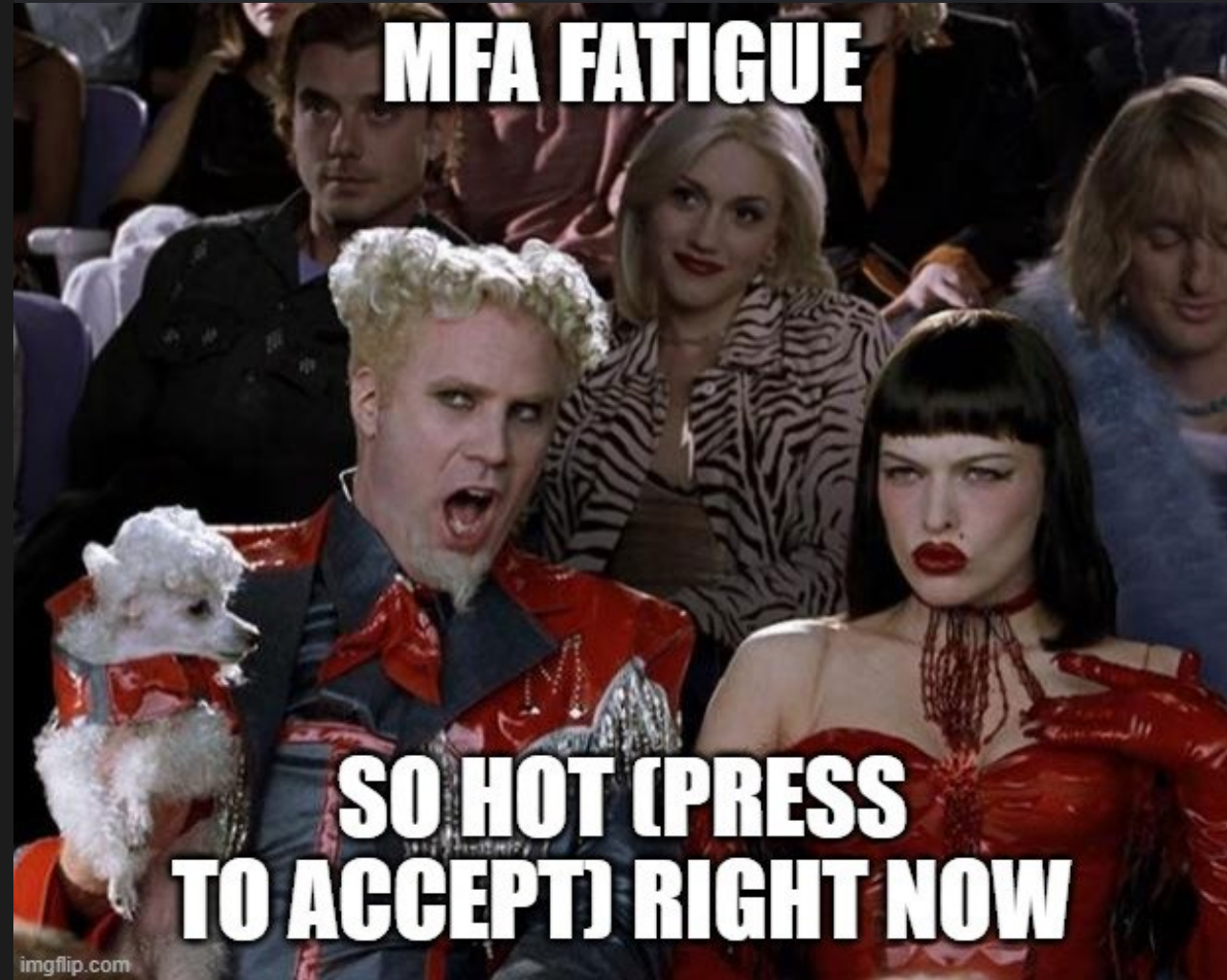


Knowledge is power

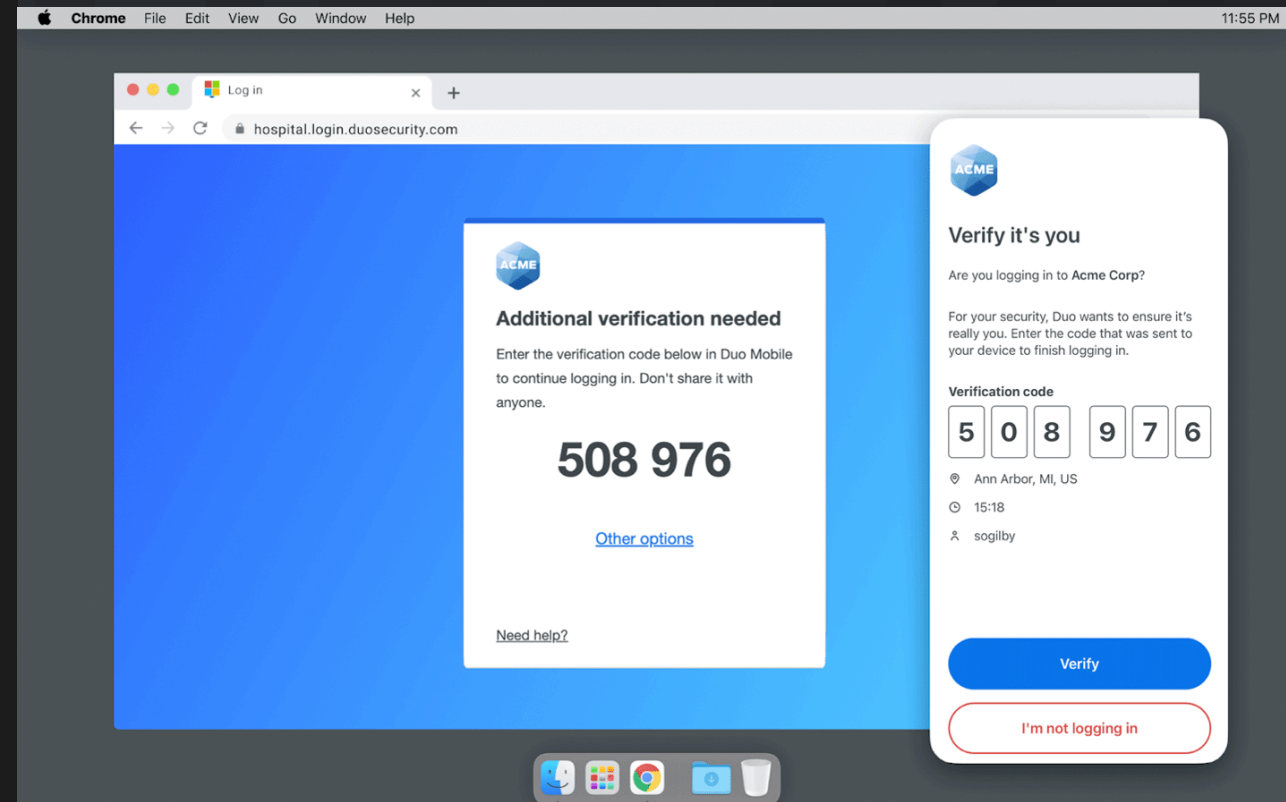


KNOWING  
IS HALF THE BATTLE

Strategic: MFA Fatigue



Tactical: Embrace Verified Push



Strategic: War is hell



Tactical: Visibility has saved pain in Ukraine

The fundamentals are CRITICAL

- Asset & Inventory
- Monitoring
- Baselines
- Segmentation



Prevention is where you start

- ...**resiliency** is where you want to be
- Visibility, monitoring, and your security fundamentals are incredibly important
- Again – fundamentals. It's a journey, not a destination.
- Learn to bend but not break



Train. Learn.

- “Everyone has a plan until they get punched in the mouth.” – Mike Tyson
- Know your risk appetite.
- Understand cyber insurance!
- Be proactive – train hard! Use 3rd party evals
 - Intelligence on demand!
 - Tabletop Exercise!
 - Threat hunts!
 - Playbooks!





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