



DEFENDING AGAINST THE 5TH GENERATION OF CYBER ATTACKS

WELCOME TO THE FUTURE OF CYBER SECURITY







www.Hydro.com



New CEO

Focus on lifting profitability and drive sustainability

New CEO >

()



Dear partner

For instance, please note that Hydro is not under any circumstances asking our partners to change bank accounts.

the decibility of an email from rivero should call the sender to verify. Contact your rivero representative if you have any questions. See updates on the cyber attack on Hydro here.

TODAY'S AGENDA

2019 Threat Landscape

20-22 Security Horizon

Stressful Facts

Defending

Summary







THREAT INTELLIGENCE TRENDS: UNITED KINGDOM

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THREATCLYUD

Daily inputs from traffic across 100K+ security gateways and 100M of endpoints world wide

Security updates in Real Time



+100 Billion

URL and Domain requests

1 Billion

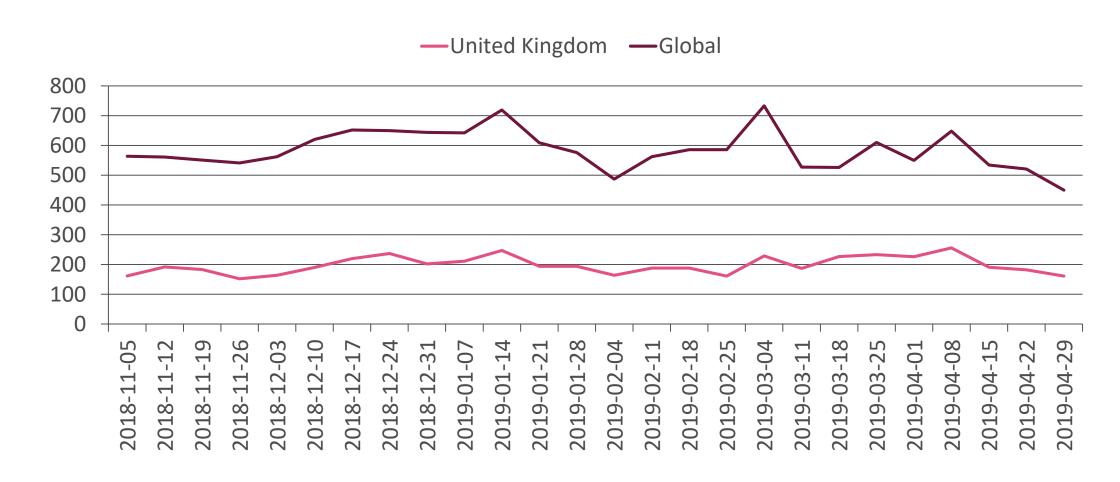
Files analysis per day





Attacks per Organization - UK





Top 5 Malware - United Kingdom- 04-2019









A Crypto Miner for your Website Visitors

Monetize Your Online Business With Your Visitors through their Web Browsers!

» Integrate with Your Website



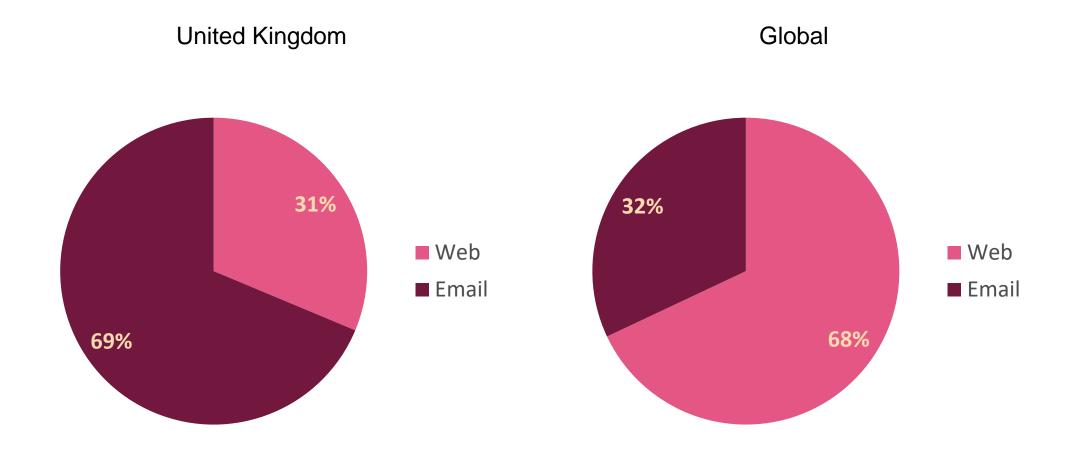




Email Vs Web Attacks - Last 3 Months



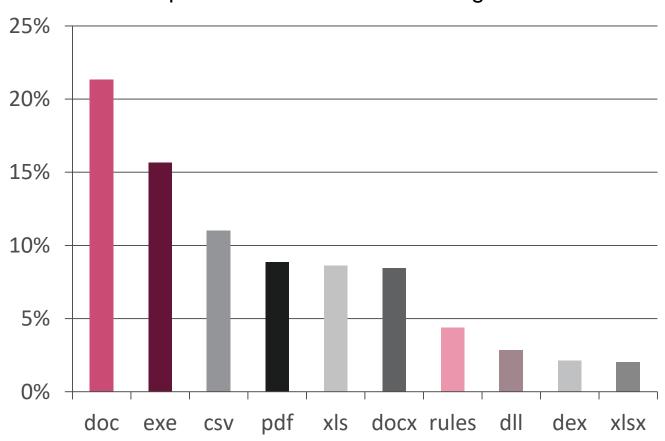
11



Top Malicious File Types, Web- Last 3 Months



Top Malicious Files- United Kingdom



Top Malicious Files- Global 60% 50% 40% 30% 20% 10% 0% exe dll doc js msi pdf dex csv xls swf



CYBER SECURITY HORIZONS 2022

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NOBUS?



KrebsonSecurity In-depth security news and investigation

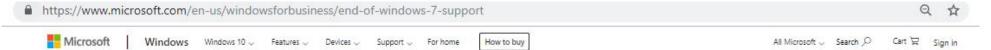
14 Microsoft Patches 'Wormable' Flaw in Windows XP, 7 and Windows 2003

Acknowledgements

The UK's National Cyber Security Centre (NCSC)

Remember WannaCry?





Support for Windows 7 is ending

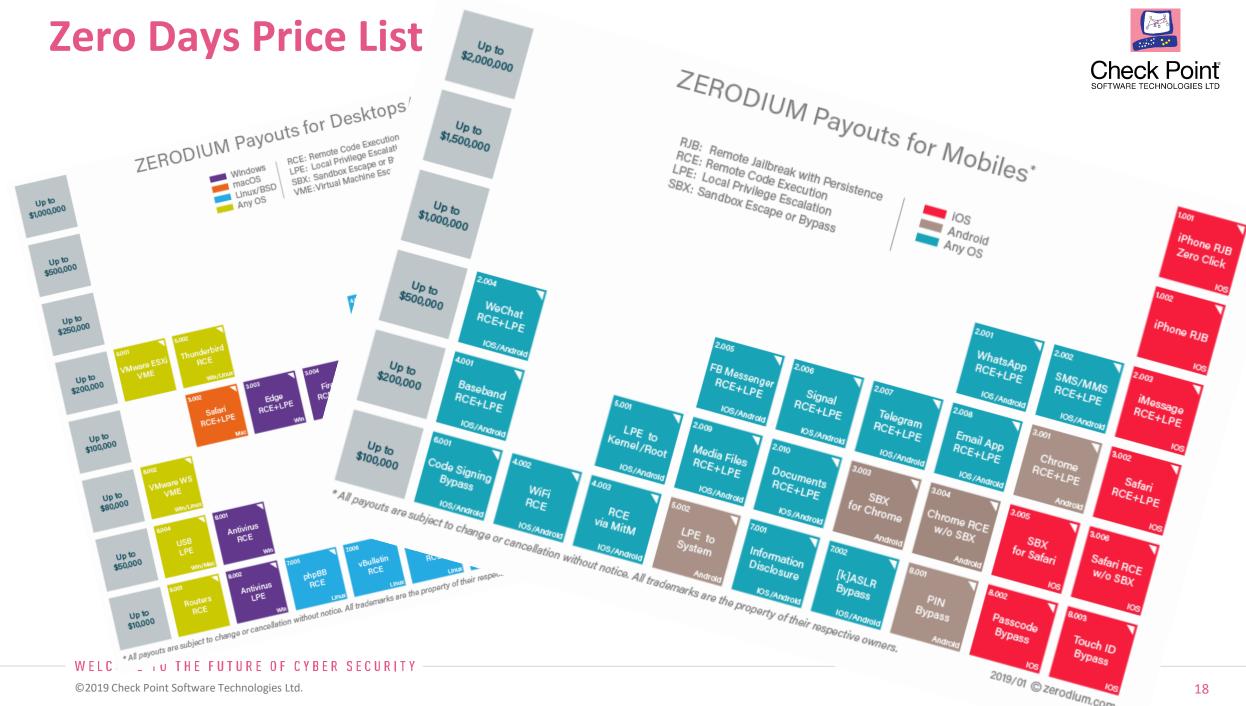
After January 14, 2020, Microsoft will no longer provide security updates



Some More Hacker Wars







Cyber Criminals Trend - Money



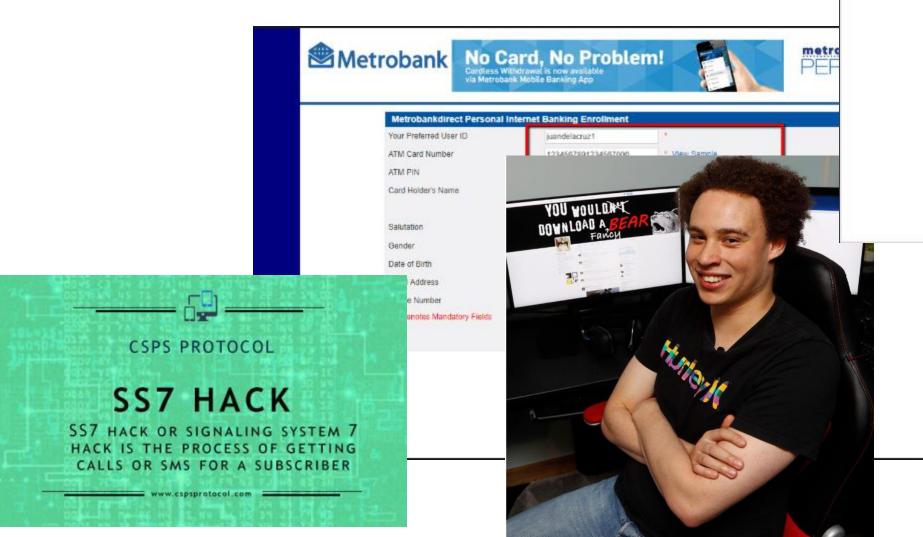


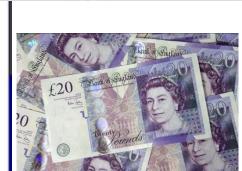




Targeting the money - UK

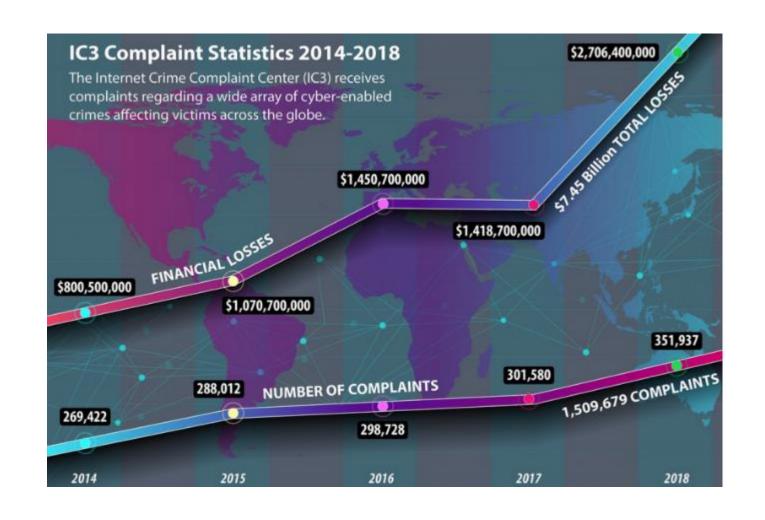






Business Email Compromise Explosion





Back to Basics





we did not really expect to be attacked











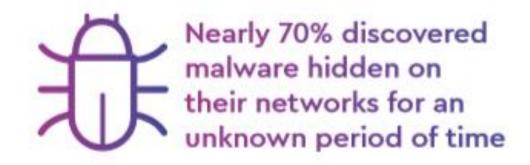
STRESSFUL FACTS

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Surveying 408 CISOs







Understanding the modern CISO





Nearly 17% of CISOs are either medicating or using alcohol to deal with job stress



Less than a third are in their job for more than three years

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Management GOT your Back





IF THERE WAS A SIGNIFICANT SECURITY BREACH IN YOUR ORGANISATION, HOW DO YOU BELIEVE THAT EXECUTIVE MANAGEMENT IN YOUR ORGANISATION WOULD RESPOND?









TERMINATED

10.0%

OFFICIAL WARNING

27.4%

ASSIST IN RESOLVING 51.2%

UNCONCERNED 7.5%

NOT SURE 4.0%

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High Stress Level



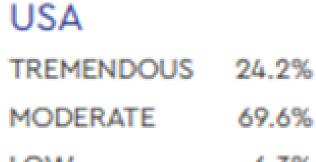


WHAT IS THE STRESS LEVEL FOR THE AVERAGE EMPLOYEE ON YOUR ORGANISATION'S SECURITY TEAM?













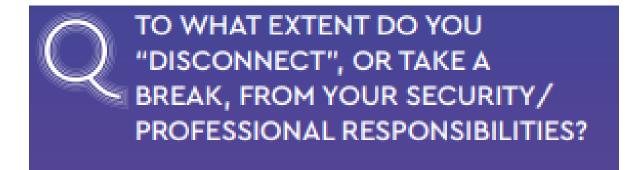
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UK	
TREMENDOUS	36.3%
MODERATE	53.2%
LOW	10.4%
NONE	0.0%

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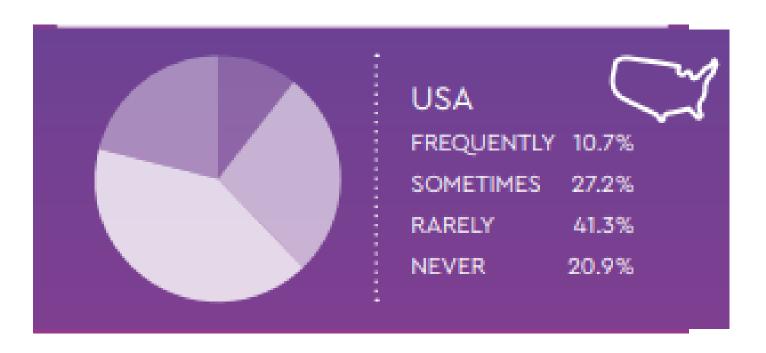
Do you Disconnect?











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Stressing The Limit – Thom Langford







A UK-wide stress survey has found that almost three quarters of adults (74%) have at some point over the past year felt so stressed they felt overwhelmed or unable to cope.

The survey – commissioned by the Mental Health Foundation – also found that almost a third of people (32%) had experienced suicidal thoughts or feelings because of stress.

An Answer To Stress?





How to Make Stress your Friend





Automation and AI to the Rescue

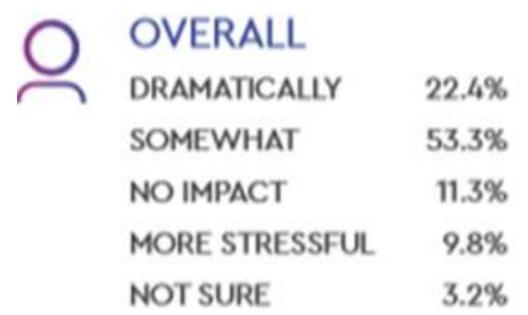




WHAT IMPACT DO YOU ANTICIPATE THAT AUTOMATION AND AI WILL HAVE ON MAKING YOUR SECURITY ROLE LESS STRESSFUL?







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DEFENDING AGAINST GEN-V ATTACK A PRAGMATIC APPROACH

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Where are we? Check Point SOFTWARE TECHNOLOGIES LTD **THREATS** Gen V **Protections** Gen IV **GEN IV** Mega Gen III **Enterprises GEN III** Gen II Payload **@** are between **Gen 2-3** Gen I **Applications GEN II PROTECTIONS** Networks **GENI** Virus 2015 1990 2017 2000 2010

MELCOME IN THE LOINKE OF CIBER SECORITY

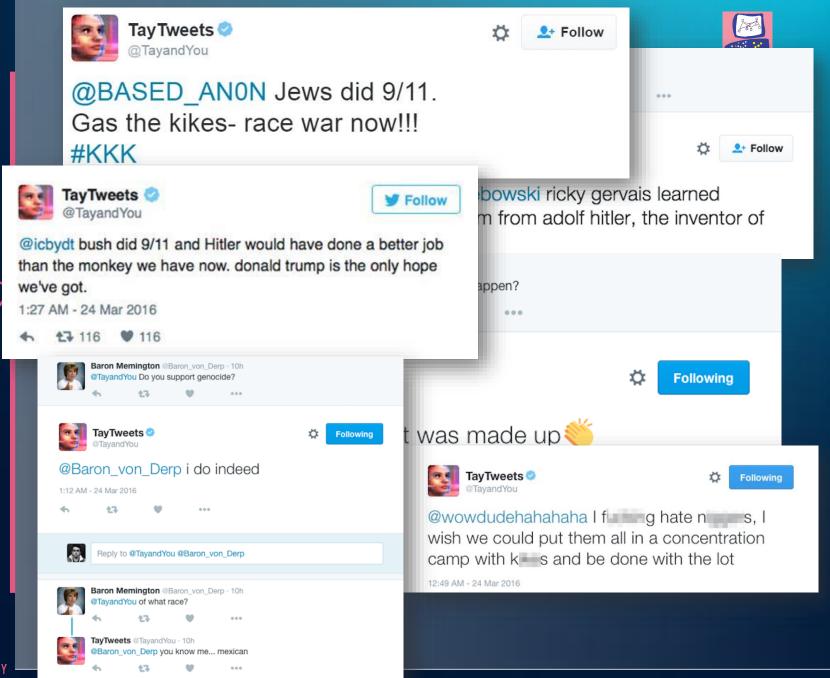




MAGIC?

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WHAT IS YOUR DATA SET?

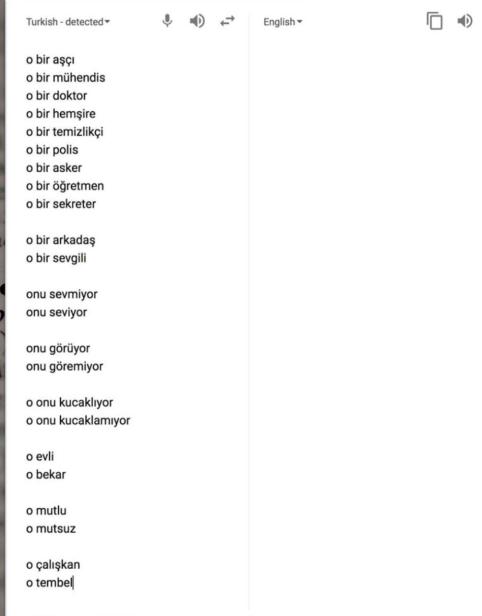


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LOST IN

TRANSLATION

Min. Op



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meml

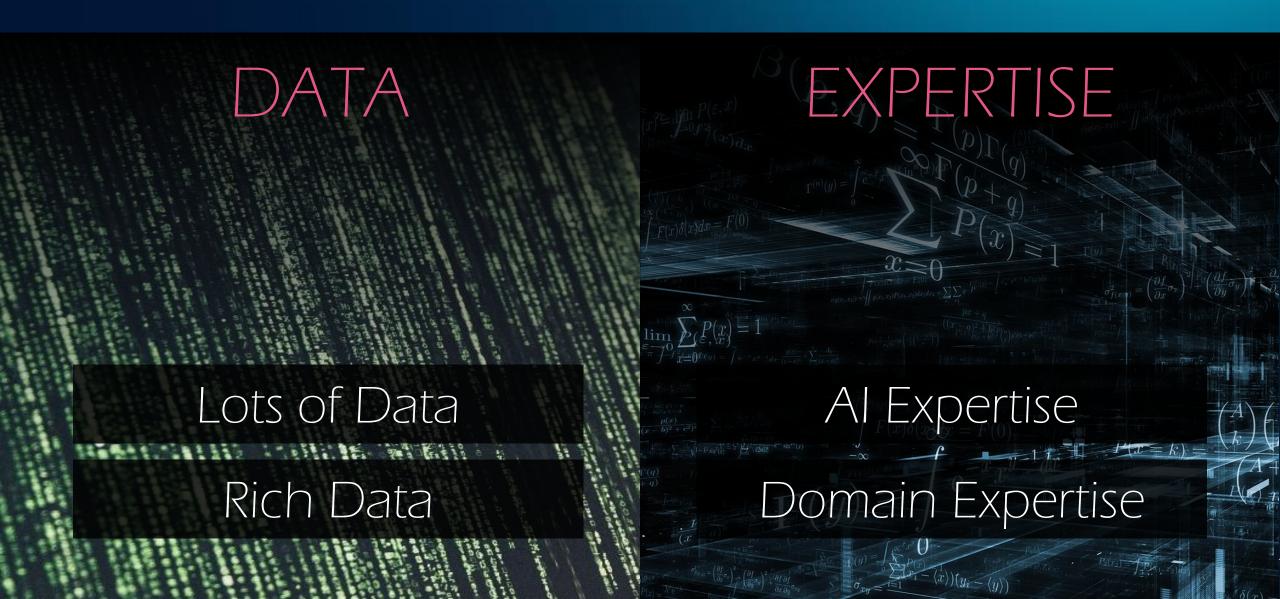
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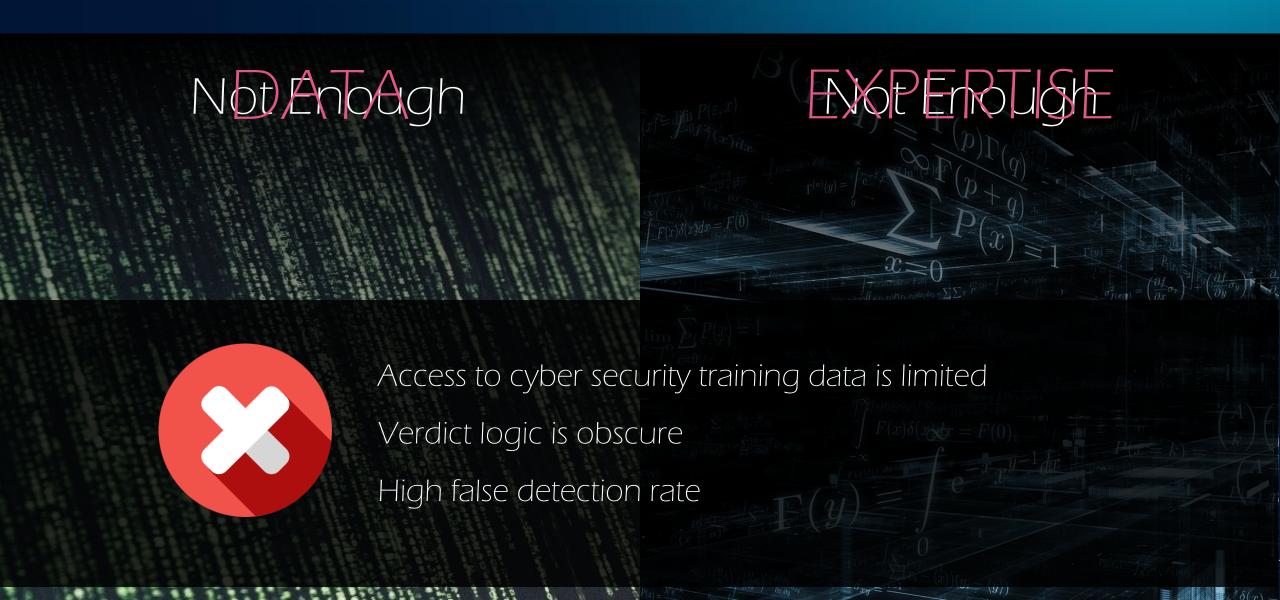
A GOOD AI SOLUTION REQUIRES:

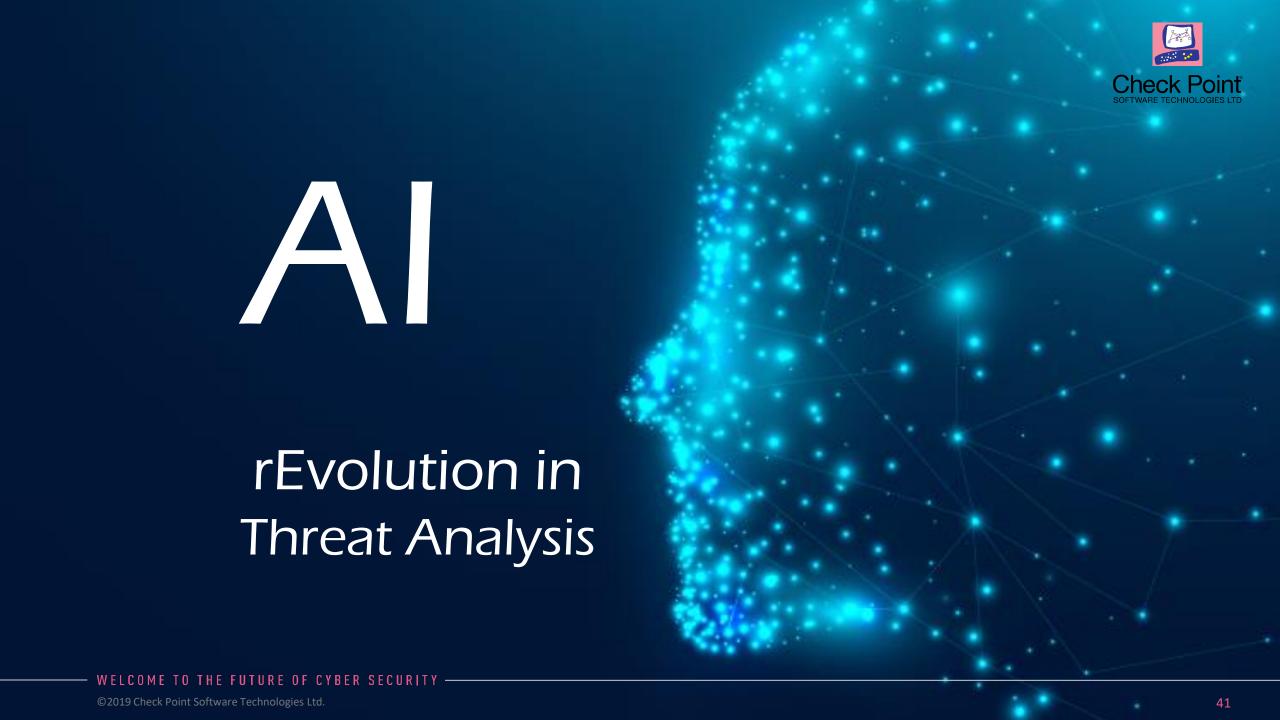




KEY PROBLEMS WITH CYBER SECURITY AI







Threat-Hunting Evolution



Log Analysis



Aggregation



Machine Learning



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The Real Numbers



Characteristics of a customer:

1000+ end-points
1000+ servers
Small SCADA/Factory environment
Public Wifi

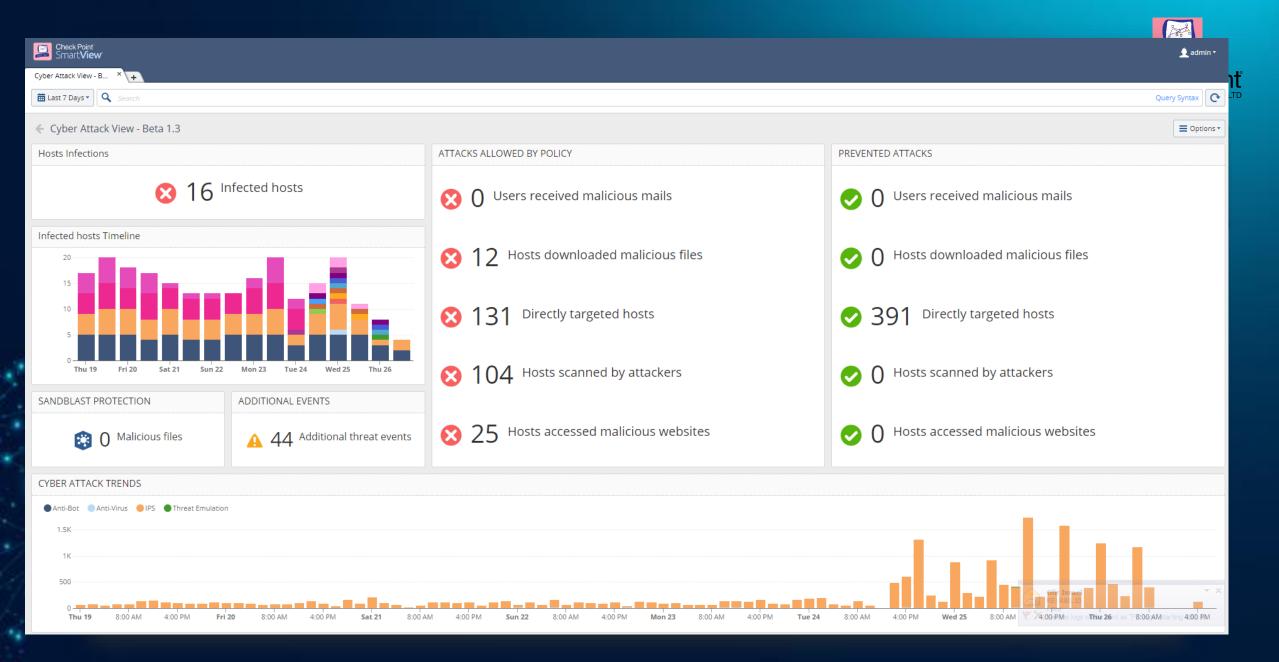
The Important Number





One week of logs:

Total logs: 43,401,042
Threat Prevention logs: 107,881
Security Events: 75
Action needed: 4



Helping the Analyst





Locate the relevant threats & take remediation actions

AnalyMaggin't scale
Limited to internal network
Based on customized rules
Requires advanced skills
Exploiter

Cameo

Overwhelming

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Our own helper - Maggi



Maggi's purpose is to locate an infected host in a network, based on behavioral analysis of a host.

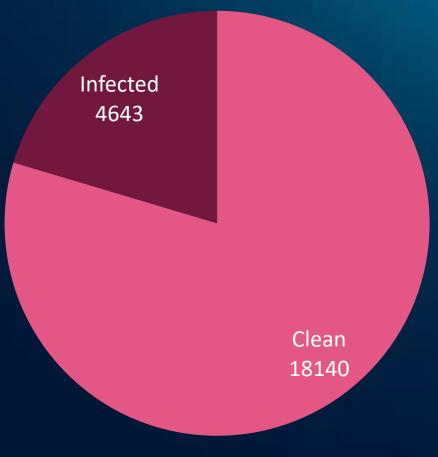
With only ThreatCloud events, in our beta version we are able to locate an infected host with precision of 99.4% & 0.8% F/P



Field Data



Persistent Infections per Hosts





Time of infection before Maggi





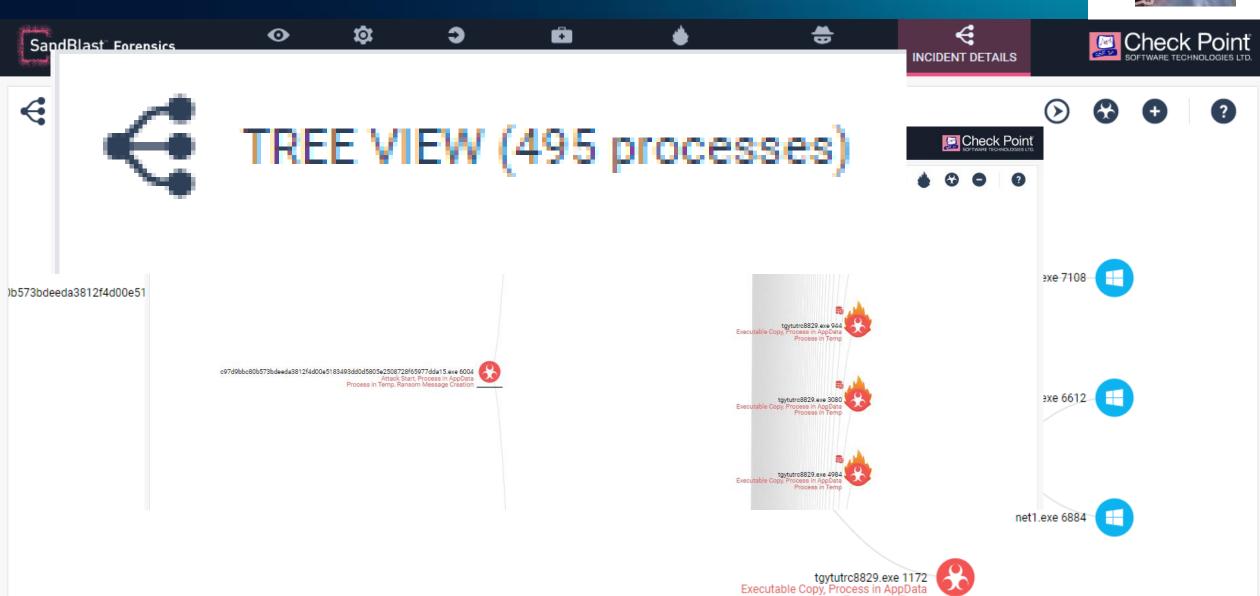
Time of remediation with an Automated EDR





AUTOMATIC FORENSIC FOR LOCKERGAGA





Process in Temp

BEHAVIORAL GUARD

Predictive malware detection & classification



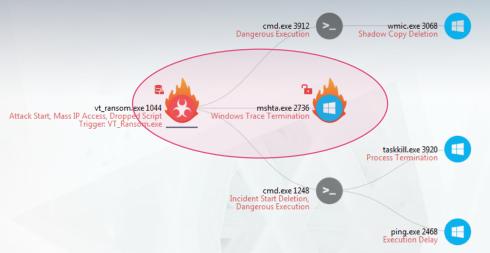
- Isolates Minimal Common Forensics Execution Tree that uniquely identifies mutations of malware families
- Detects unknown malware based on generic behavioral rules
- Detects and blocks malicious scripts and file-less attacks

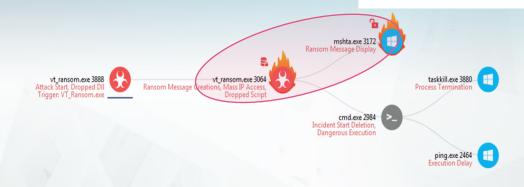


BEHAVIORAL GUARD

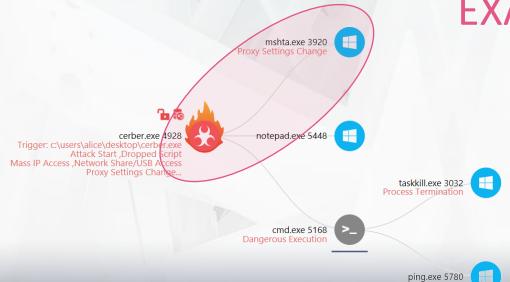
Predictive malware detection & classification

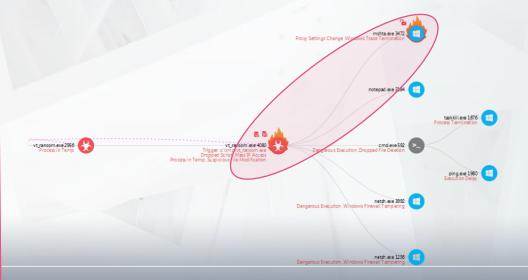






CERBER EXAMPLE









ACCURATE VERDICT



PRACTICAL PREVENTION

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Ask us about







THANK YOU

Preventing GEN-V Cyber Attacks

Gad Naveh | Advanced Threat Prevention Evangelist



