

DAILY NEWS

Cyber Attack Exposes Millions of Customers' Data Company hit with massive fines, stock plummets





Cyber Attacks Growing in Complexity and Scale



- \$2.7 billion monetary losses in 2018 per FBI¹
- Cost of
 Remediation far
 outweighs the cost
 of prevention



- Notable public breaches have resulted in millions of records stolen
- Breach victim's future business jeopardized

1. FBI Internet Crime Report 2018

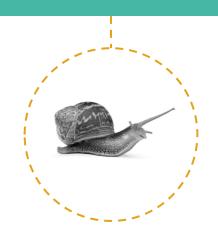
But Security Teams Cannot Respond to Incidents Fast Enough



- 196 days on average between infection and detection
- Not all organizations have necessary people/tools/automation to correlate data from multiple systems

Customer A

Had a lot of data to analyze and decided to outsource SOC operations because they couldn't analyze it themselves



Customer B

Didn't know all the places in the network where they were using threat intel and failed to operationalize on it



And Throwing More People at the Problem is Not Possible

92%

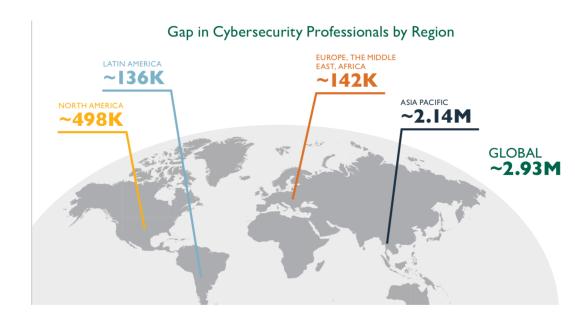
of companies get more than 500 alerts per day; a single cyber analyst can handle only ~10

4%

of alerts are investigated; not enough humans to keep organizations safe

30+

security tools in operation, with staff and expertise to manage ~12



How Hard Is It To Rent A Botnet?



rent a botnet

Q

All News Images Shopping Videos More Settings Tools

About 237,000 results (0.46 seconds)

DDoS for Hire | Booter, Stresser and DDoSer | Incapsula

https://www.incapsula.com/ddos/booters-stressers-ddosers.html

It turns out, not much is needed to actually **rent a botnet**. Usually, it boils down to a PayPal account, ill-will towards the target and willingness to break the law.

Botnet · DDoS Attack Scripts · DDoS attacks

Build, buy, or lease? The 15-minute botnet - Cyren

https://www.cyren.com/blog/articles/build-buy-or-lease-the-15-minute-botnet ▼
Jul 10, 2017 - Because the software required to launch a proper botnet is complex ... in on
botnet purchase and rental schemes by developing the software ...

Do You Know How Much It Costs to Rent an IoT Botnet? | Secplicity ...

https://www.secplicity.org/2017/03/07/know-much-costs-rent-iot-botnet/ ▼
Mar 7, 2017 - Renting an IoT botnet is probably less expensive than you think. IoT botnets are
the new Flavor of the Month when it comes to cyber attack ...

You Can Now Rent a Mirai Botnet of 400,000 Bots - Bleeping Computer

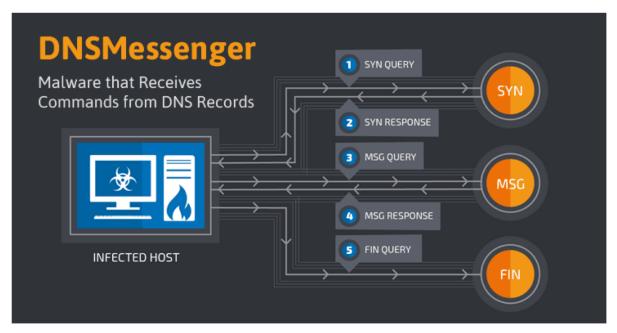
https://www.bleepingcomputer.com > News > Security ▼

Nov 24, 2016 - Two hackers are **renting** access to a massive Mirai **botnet**, which they claim has more than 400000 infected bots, ready to carry out DDoS ...



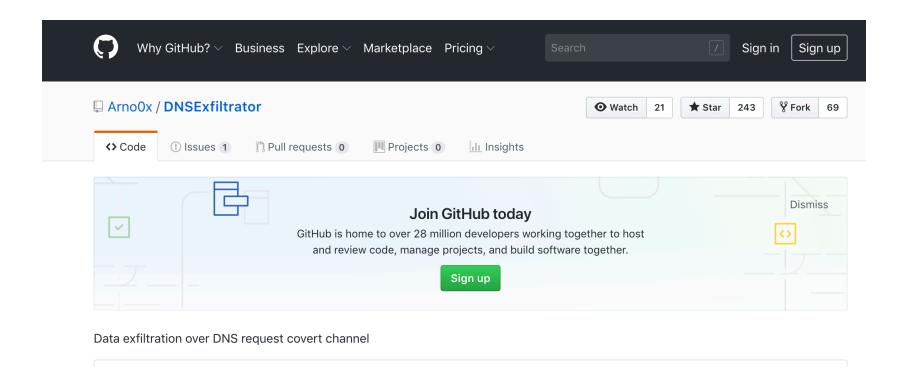
DNS Infil-/Exfiltration

- -TEXTMATE (FireEye) DNS
 Tunneling via fileless attack
- Made cyber news in Mar '17
- Involved 4 stages of attack beginning with a malicious attachment
- Bi-directional communications via DNS TXT records



Source: thehackernews[.]com/2017/03/powershell-dns-malware.html





The Bottomline

- Threats growing exponentially in quantity and capability
- Impossible to match skills of a well trained, distributed, global malware developer
- Threat actors aren't bound by political or legal limitations
- Enterprise visibility suffers at the rate of expansion
- Human-in-the-loop security analysis cannot scale at the rate of security events



Maturing your Cyber Security Program



MAYBE WE SHOULD TRY A DIFFERENT SECURITY APPROACH THIS YEAR."



The 3 Worst Words You Can Say in Cyber Security?

WAYS TO SAY I DON'T KNOW I have no idea. I am unsure. O Search me. Don't ask me. Beats me. I don't have a clue. English Study Page That's a good question. I'll check it. I don't know anything about ... I don't have any information about that. Like www.englishstudypage.com facebook.com/englishstudypage



Elements of a Mature Cyber Security Program

Actionable Network Intelligence (IT)

+

Actionable Threat Intelligence (Security)

+

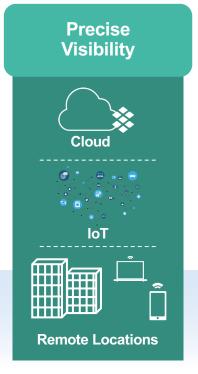
Informed Ecosystem

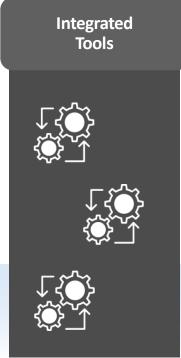
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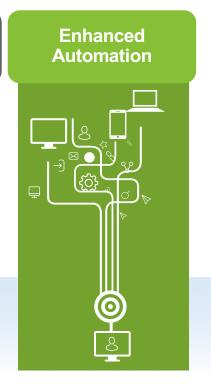
Holistic and Mature Cyber Security
Program



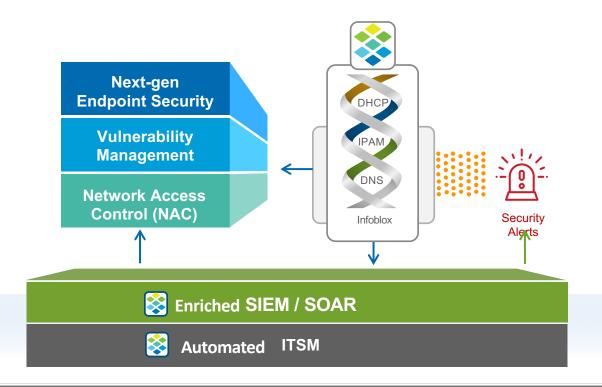
Key Tenets of Efficient Security Operations







Improve Productivity and Enhance Automation



DNS

- Malicious activity inside the security perimeter
- · Includes BYOD and IoT device
- · Profile device & user activity

DHCP

Device Audit Trail and Fingerprinting

· Device info, MAC, lease history

IPAM

Application and Business Context

- "Metadata" via Extended Attributes: Owner, app, security level, location, ticket number
- Context for accurate risk assessment and event prioritization



Combined DDI, Threat Intel and Context to Power SOAR Platforms

Enriched data and integrations that can be relied upon to build automation



Prioritize 100s of alerts | Automate incident response | Reduce cost of human touch/error

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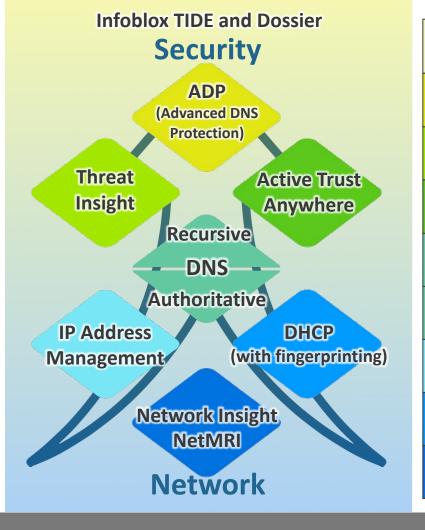
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Know the Threats: Proactive / Reactive

DDoS Resilience

Protect Your Data from Leaving

Protect Where You are Going from Anywhere

Where are they going?

Provide Your DNS

Where are they?

Who and what is on my network?

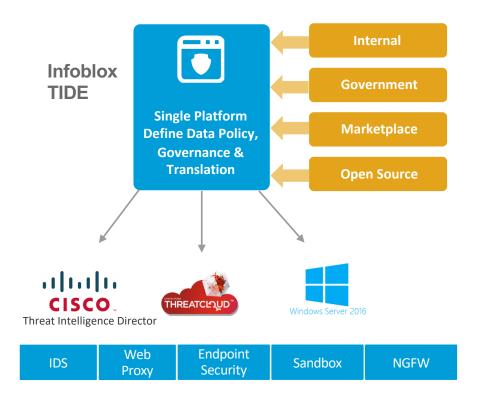
What is on your network?



...and many more.

Security Policy Unification

- 3rd party platform receives malicious host names, IP addresses and URLs from TIDE
- 3rd party platform can now block/ monitor more threats
- Improves effectiveness and delivers better ROI for your security stack







For the second year, Lucky Srika E-AR Honda brings you its 006 Formula One car stripped bare. From recognisable components such as the front and rear wings and the wheels incht down to the electrical assembly systems and engine management controls B-A-F presents you with the picture you want to see. For more information on the 8-A-R Honda 005 visit:

BARf1.com

key components

- 1. Front wing/noce accomply
- 2 Monocoque
- 3 Mirror assembly
- 4 Honda V10 engine
- 5 Exhaust system
- 6 Hydraulic plate accombly
- 7 Clutch acquiror assembly
- 8 Gearticx assembly
- 9 Rear impact structure
- TO Rear wing assembly
- 11 Fuel tank
- 12 Headest
- 13 Strering wheel
- 14 Radiator duct assembly
- 15 Engine ocverside pods
- 16 Drivers sent
- 17 Barga board
- 18 Lover front wishbone
- 19 Top front wishbone
- 20 Front brake ducts
- 21 Steering rack assembly
- 22 Front suspension damper
- 23 Front pushrod
- 24 Lower rear wishbone
- 25 Top near wishbone
- 20 Pear pushrud
- 27 Roor trackrost
- 28 Driveshaft
- 29 Brake disc assembly
- 30 Brake calper 31 BES vinesis with Bragestone tyres

- 32 Water redictor
- 33 Oiltark assembly
- 34 Main electrical harness:
- 35 Airoox and ar filter
- 36 Let-hand electrical assembly
- 37 Fire extinguisher
- 38 Ollonder
- 39 Plank
- 40 Moin foor assembly with diffuser
- 41 Spitter assembly
- 42 Engine management controller 43 Bottony
- 44 Steering column
- 45 Throtte and brake cedal assembly 46 Rear brake ducts
- 47. Whee rus
- 48 Damper cover
- 40 Engine heatshields
- 50 Seat belt
- 51 Camera
- 52 Ainpring
- 53 Front until roll bay



Customer Story: Major Insurance Company

Customer Use Case:

- Customer says: "I'm not interested in your DNS firewall. I have a Palo Alto Network Firewall, it can do all the things Infoblox can."
- But they did have security operations challenges
 - Inefficient and ineffective vulnerability scanning for compliance; hours of wasted time and resources
 - Sandbox solution does not scale for mitigation; expensive and can't block in remote offices
 - Query logging (for feeding into their SIEM) on Microsoft DNS can't be enabled

Solution: ActiveTrust with cybersecurity ecosystem

Outcomes:

- Infoblox tells vulnerability scanner when a new device is on the network, making it more effective
- Enable sandbox to add domains to RPZ block across entire DNS infrastructure
- Enables DNS Query data to be sent to their SIEM





Live Demo

Provisioning New Web Server

