

2016

Introduced the Cybersecurity Tactical Training Center

2015

2014

2013

Founded to Safeguard Healthcare & Critical Systems

Introduced NIST 800-53/HIPAA Rapid Assessment Program

Named Top-500 Most Innovative Cybersecurity Firm

Founded Hacking Healthcare Conference

Introduced first Security Operations Center for Healthcare Sensato-CTOC

Formed non-profit Medical Device Cybersecurity Task Force

Named 2016 Frost & Sullivan Visionary Leader in Cybersecurity





Advisory Services

Incident Response Planning

Penetration Testing

Vulnerability Assessments Incident Response Planning

Cyber Range

Medical Device Security

Managed Services

Security Operations Center





Software



Breach Detection

Sensato-ISAO







DIVURGENT







ALIEN VAULT







38% Increase in Cyberattacks

PWC Global State of Information Security
Survey 2016

20% Increase on Cybersecurity Spending

PWC Global State of Information Security Survey 2016

23% Increase in Cost of Attack [\$4M]

2016 Cost of Data Breach Study – Poneman & IBM

"Simply stated, for the most part, as an industry we are applying 2010 solutions to 2020 problems."

\$1,367 average cost of exploit kit [44% decrease over 2015]

2016 Cost of Data Breach Study – Poneman & IBM

40% decrease average cost executing an attack

HelpNet Security – The Economics of Hacking 4/26/2016

<24 hours time for attack to breach a target [72% decrease over 2015]</p>

Verizon 2016 - DIBR





Motivation	Attacker Type	Sophistication Level
Mission	Nation State	High
Ideology	Terrorist/Activist	Medium
Financial	Criminal	High





June 27 – 07:00AM EST: A cyberattack is launched against Nuance at a Ukraine office.

June 27 – 07:14AM EST: The attack is successful and has the following impact:

- 14,800 servers are impacted
 - 7,600 will be destroyed beyond repair.
- 26,000 workstations are impacted.
 - 9,000 will be destroyed beyond repair.





Recovery efforts will cost over \$60M

Nuance team members will work 24x7 for six weeks before getting a day off.

The company realizes about \$125M in potential business losses and impact.





Nuance was the victim of NotPetya – a very violent strain of the Petya virus:

Not Petya is not ransomware.

There was no exfiltration of data.

There was no command & control.

The only mission of this attack was to destroy systems using a highly effective cybermunition.





Cyber Spies

- FBI reports at least 108 nations have active cyber spy groups.
- The nation state typically appoints a proxy.
 - Chinese Unit 61398 has a 130,000 square foot/12 story facility that employs thousands of operatives.
- Highly Sophisticated
- Cross Over to Cyber Criminal Groups
 - Providing Testing Services
 - Beta Programs



Robin Sage N8 at NETWARCOM

Norfolk, Virginia Area Computer & Network Security



Current	NB at Maval Network Warfare Command	
Past	Internat Government Agency ☐	
Education	Massachusetts Institute of Technology St. Paul's Echcol	
Recommendations	1 person has recommended Robin	
Connections	147 cannections	
Websites	Where I Work Dark Side of Security My Facebook	
Twitter	• rcb nsage	
Public Profile	http://www.linkedin.com/in/rcbinsage	

Summary

I have been in the computer hacking scene for over ten years. During this time I have penetrated hundreds of networks as a professionally contracted hacker and was empowered by the acrenaline rush of breaking into secured facilities of Global 500 companies and various governments. Because of my style and diverse areas of expedice, many of my friends refer to me as the real life Abby Souto of NCIS.

Established profiles on LinkedIn and Facebook

Friended CIO at NSA, Congressman, Northrop and Lockheed Executives

Started to get requests to interview and sponsorship for secret clearance.

Befriended Army Ranger deployed to Afghanistan, who sent photos to her with embedded GPS information.

Received confidential documents and invitation to speak on cyber war and security at the Pentagon





Cyber Criminals

- Highly Organized
- Collaborate Deeply
- Extreme Incentives
 - Contests
 - Recognition
- Full Time Positions with Benefits
- Crime-as-a-Service
 - RaaS
 - Multilingual Call Centers
 - Support Scams
 - "Yes" Scam
 - Disaster Scams
- Utilization of Big Data Analytics to value data and create hostage situations.

Type the text Privacy & Terms



The Attacker's Perspective





NIST Top-10

Addresses 80% of NIST 800-53

Addresses HIPAA

Qualifies as a risk assessment for HIPAA

Provides a manageable foundation for ultimately achieving 800-53

Allows flexibility in prioritization and project management.

- 1. Business Associate Management
- Qualification & Training
- 3. Education
- 4. Executive Intimacy
- 5. Incident Response
- 6. Monitoring
- Old Technology
- 8. Patch Management
- Relevant Practices
- 10. Single Authority



Dirty dozen phases

Phase I

Relevant Practices
Patch Management
Old Technology

Education & Awareness

Phase II

Qualification

Executive Intimacy

Monitoring

Incident Response

Phase III

Business Associate Management

Single Authority

Medical Device Security

Operational Systems Security

Strategic Roadmap & Plan







Attacker Innovation

Eliminate the Rules

Dare To Try

Failure Becomes a Known Entity

No Political Correctness

Audacity

They Do Not Believe What Everyone Believes

They Believe in Wonderment









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