

Airports Canada 2015 Conference

Cyber Security, Current Bad Actors, Threat Vectors and Strategy

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BUSINESS

[insert breach headline here]

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**All about
your
company.**



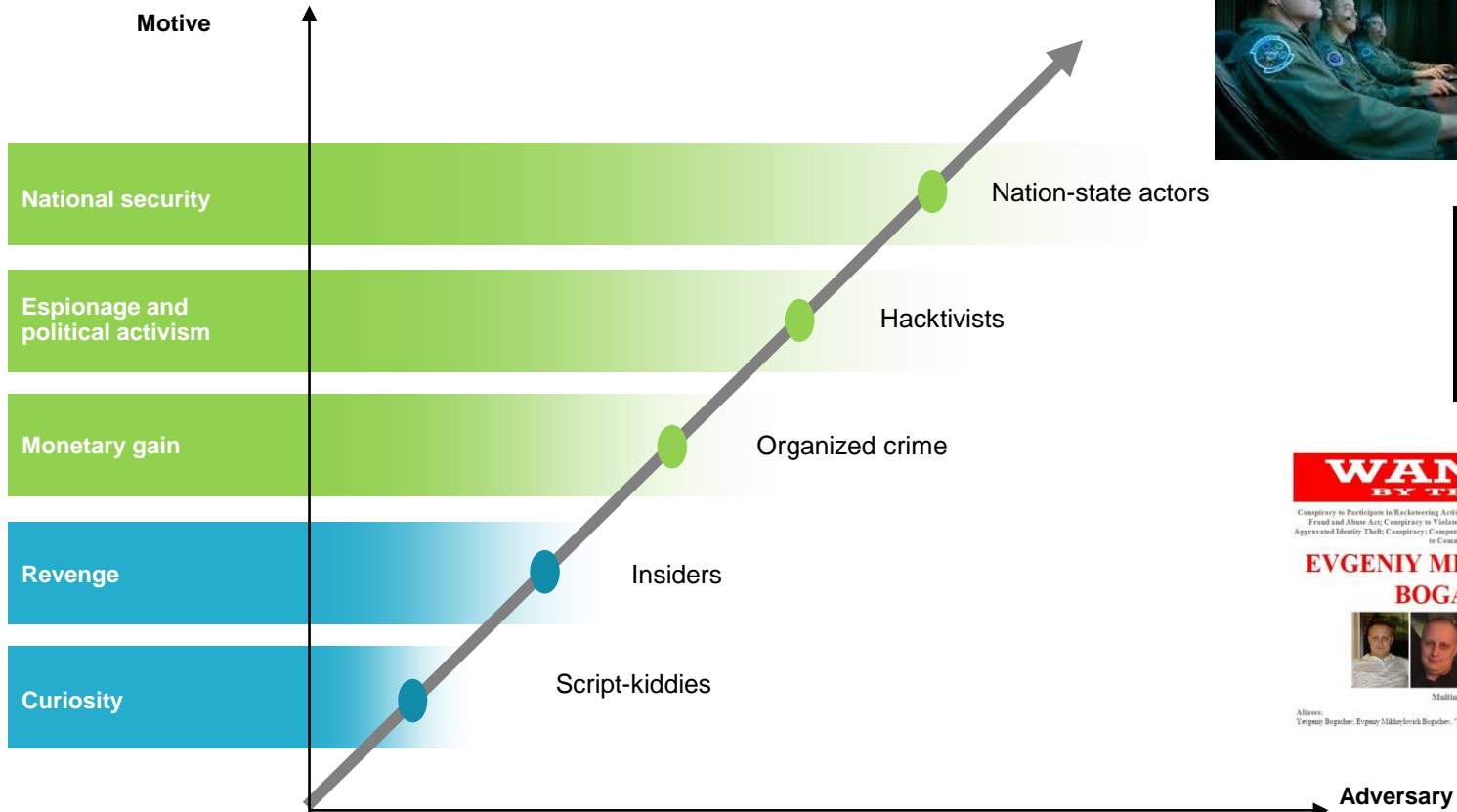
IMPACT



The Attackers

1995 to 2005
First decade of the commercial Internet

2005 to 2015
Second decade of the commercial Internet



WANTED
BY THE FBI

Conspiracy to Participate in Racketeering Activity; Bank Fraud; Conspiracy to Violate the Computer Fraud and Abuse Act; Conspiracy to Violate the Identity Theft and Assumption Deterrence Act; Aggravated Identity Theft; Conspiracy; Computer Fraud; Wire Fraud; Money Laundering; Conspiracy to Commit Bank Fraud

EVGENIY MIKHAILOVICH BOGACHEV



Aliases:
Yevgeny Bogachev; Evgeny Mikhailovich Bogachev; "h0x012345"; "dr0k"; "P0d1ng00m"

We are in an era of continuous breaches

Attackers are relentless, victims are targeted, and the damage toll is rising

2011

Operational Sophistication

IBM X-Force® declared
Year of the Security Breach

2012

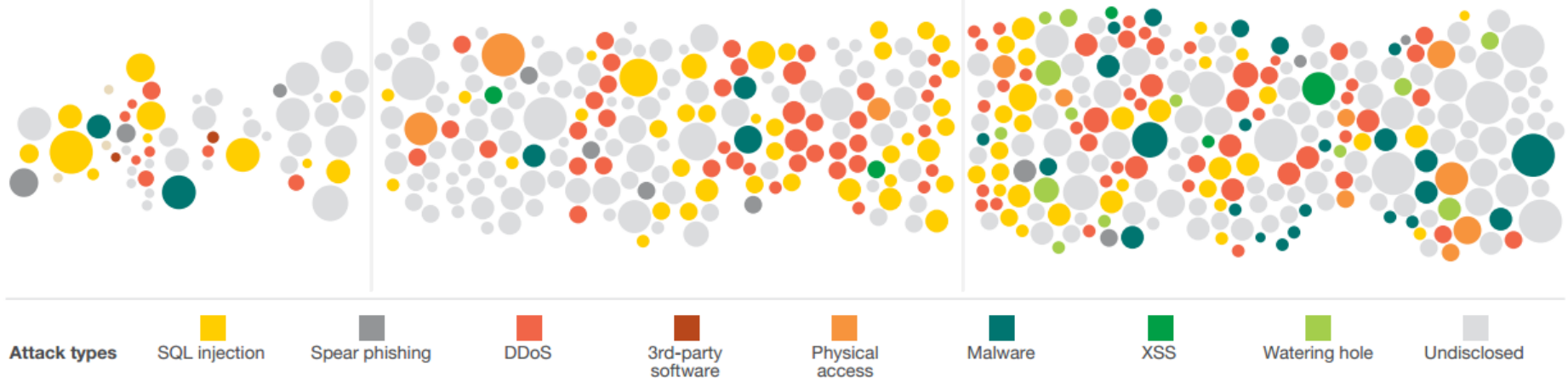
Near Daily Leaks of Sensitive Data

40% increase
in reported data breaches and incidents

2013

Relentless Use of Multiple Methods

500,000,000+ records
were leaked, while the future shows no sign of change



Source:
[IBM X-Force Threat Intelligence Quarterly – 1Q 2014](#)

Note: Size of circle estimates relative impact of incident in terms of cost to business.

Why are we still so vulnerable?

1 Failure to adapt

- Security models frozen in time
- Unable to secure the mixed bag of new and legacy equipment / devices
- Unprepared to address the new interconnectedness and BYOD

2 Over-reliance on compliance

- Secure does not mean compliant
- Compliant does not mean secure

3 Failure to govern effectively

- IT, OT, Physical and Telecom still operating as islands
- Sluggish to address convergence of IT and OT



IBM Security Services – helping our clients drive and achieve security transformation through a full range of capabilities.

Consulting

- Industry recognized management consulting
- **What?** Assess security risk and compliance, evolve security program
- **Why IBM?** Unique, practical approach based on our experience as an enterprise and service provider

Systems Integration

- +3700 consultants and architects
- **What?** Design & deploy solutions across all security domains: Identity & Access, Application, Infrastructure, & Data
- **Why IBM?:** Integrated solutions across all layers of the security framework

Operations

- Globally available managed security services platform
- **What?** Manage security operations, detect and respond to emerging risk
- **Why IBM?** IBM's global coverage of security operations centers powered by unmatched cyber security analytics

Expertise

Integration

Intelligence


IBM has proven security consultancy practices and dedicated security research capabilities across the globe.



IBM research



10 billion analyzed web pages
150 million intrusion attempts, daily
40 million spam and phishing attacks
46 thousand documented vulnerabilities



Worldwide managed security services coverage

- **Over 20,000** devices under contract
- **Over 3,700** MSS¹ clients worldwide
- **Over 15 billion** events managed per day
- **Over 1,000** security patents
- **133** monitored countries (MSS)

Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed or misappropriated or can result in damage to or misuse of your systems, including to attack others. No IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. IBM DOES NOT WARRANT THAT SYSTEMS AND PRODUCTS ARE IMMUNE FROM THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.

Thank You

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