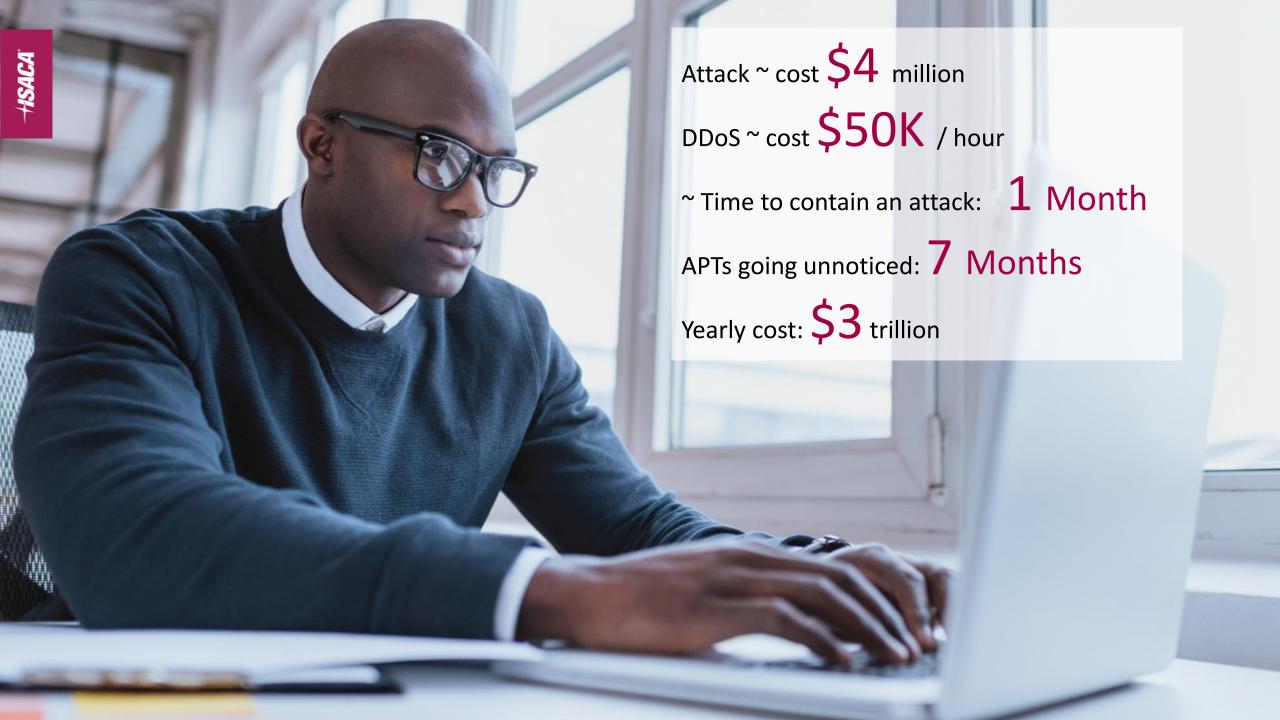


# Agenda

- Cyber Threat Landscape 2016
- 2 Building Cyber Security Capability

#### Global environment

- Technology proliferation = "The 4th Industrial Revolution"
   World Economic Forum Summit on the Global Agenda
- Fortune 500 life expectancy: 1975=55y, 2016=10y
- IoT: 2009 / 2,5b devices, 2020 / 30b devices (GARTNER)
- By 2018 owned infrastructure will be <50% the rest is Cloud (Forrester)
- Software: From Monolithic->SoA-> Microservices



# Cyber Threats

- U.S. Department of Homeland Security: 60% of Cyber Attacks originate in supply chain
- Verizon 2016: 80% of breaches occurred from externals
- Main Motives: financial / espionage
- EY Global Data Analytics 2016: Fraud main tools are cyber breaches combined with internals bribery/corruption follows

# ISACA State of Cyber 2016: Cyber threats

- 82% report their Board of Directors are more concerned
- Only 20% of CISOs report to the CEO/Board
- 45% hiring increase in 2016
- 94% report difficulty in finding skilled professionals
- 31% of attackers were criminals
- 24% are still unknown
- Most successful attacks: Phishing, malware, social engineering

# ISACA 2016 Cyber Security Jobs Index

- 781 data breaches reported in 2015...in the US alone (second highest year on record)
- About 75% of attacks focused on the business or health/medical industries
- 27% of cyber security positions are requiring up to 6 months to fill
- 59% of security professionals say that less than half of the job candidates they considered were "qualified upon hire"—an increase of nearly 10% from the prior year











#### Holistic Cyber Security Program

 CSX is designed to help fortify and advance the industry by educating and training a stronger, more informed workforce that can keep organizations and their information secure—now and in the future. CSX provides expertise and insights, guidance, training and educational events to meet the needs of individual professionals and organizations.



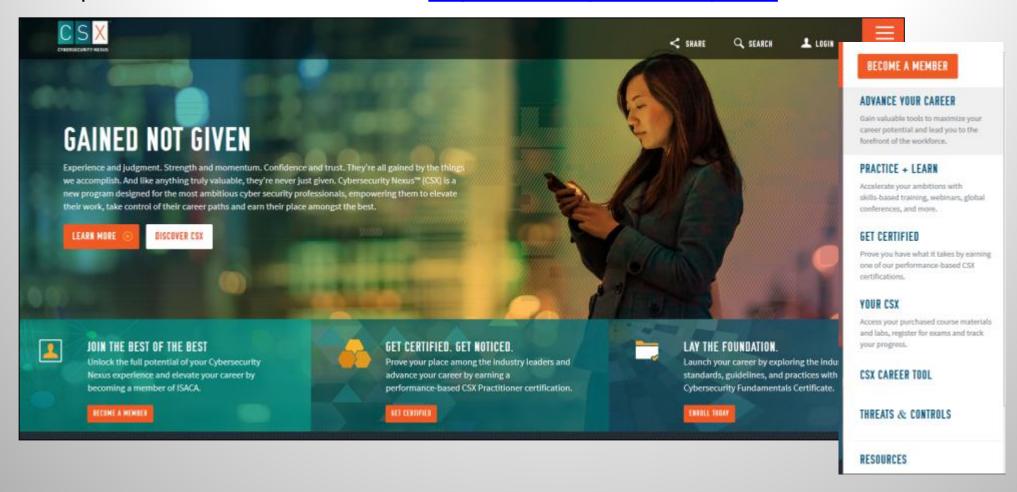
# Cyber Security Fundamentals



- The entry point into ISACA's cyber security program, Cyber Security Fundamentals, offers a certificate in the
  introductory concepts that frame and define the standards, guidelines and practices of the industry. The
  certificate and related training are ideal for college/university students and recent graduates, those new to
  the field, as well as those looking to change careers.
- The Cyber Security Fundamentals exam tests for foundational knowledge across five key areas:
  - Cyber security concepts.
  - Cyber security architecture principles.
  - Cyber security of networks, systems, applications and data.
  - The security implications of the adoption of emerging technologies.
  - Incident response
- The exam is available online, and may be taken at home or in office.
- Multiple options are available to help prepare for the Cyber Security Fundamentals Certificate exam: the
  accompanying study guide, an 8-hour online course, and 2- or 4-day workshops available during ISACA events

#### CSX Website

The CSX site is the main hub for ISACA's holistic cyber security program.
 Explore all that CSX has to offer at <a href="https://www.cybersecurity.isaca">https://www.cybersecurity.isaca</a>



#### Additional Reading

ISACA CSX (CyberSecurity NEXUS) <a href="http://www.isaca.org/cyber/">http://www.isaca.org/cyber/</a>

US NIST Cybersecurity Framework <a href="https://www.nist.gov/cyberframework">https://www.nist.gov/cyberframework</a>



# THANK YOU

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