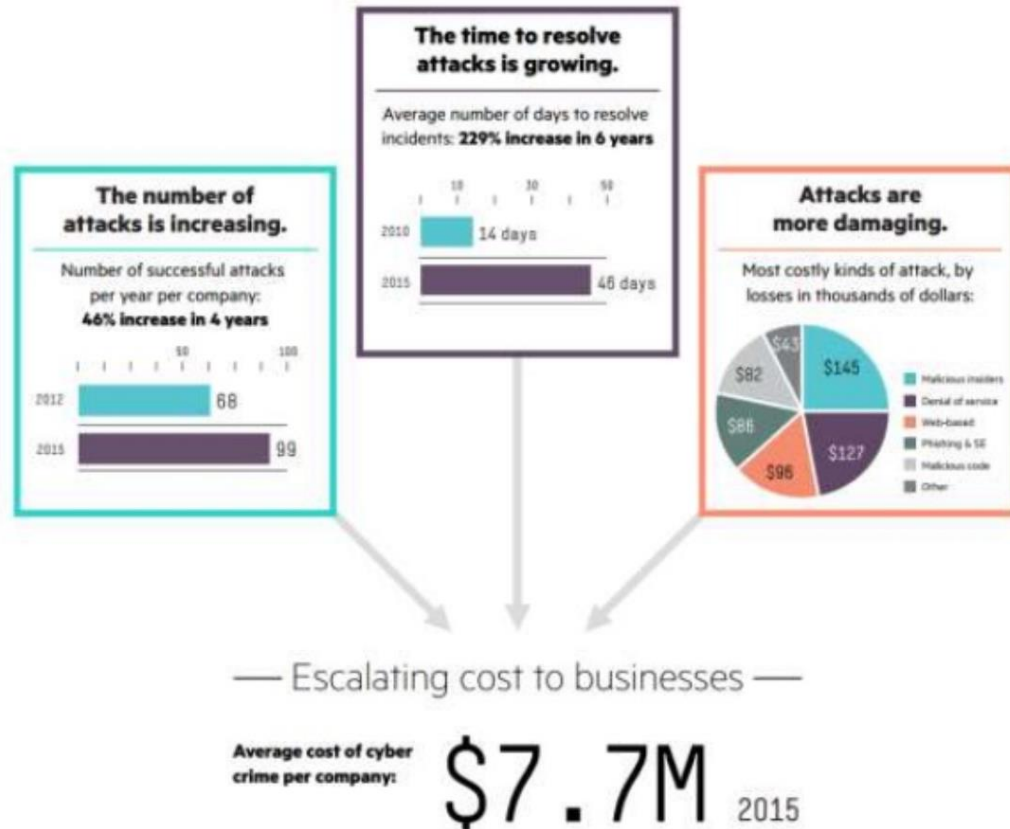


Attracting and Retaining Cybersecurity Talent

Cybersecurity job prospects

- ❑ One of the hottest fields
 - ❑ Expected to grow from \$75b in 2015 to \$170b by 2020
- ❑ Bureau of Labor Statistics information suggests more than 209,000 cybersecurity jobs in the U.S. are unfilled
 - ❑ Postings up 74% over the past five years
- ❑ Cisco reporting suggests 1m global job openings in cybersecurity
 - ❑ Demand expected to rise to 6m globally by 2019
 - ❑ Projected shortfall of 1.5m (according to Symantec)

Cybercrime is growing



Source: 2015 Verizon DBIR Report; ITRC ; HP 2015 Cost of Cyber Crime Study; The Global State of Information Security Survey 2015; McAfee Net Losses – Estimating the Cost of Cybercrime

What everyone (should be) looking for

Broad Technical Knowledge

- This is the basic requirement
- Specific requirement of a particular system can be outdated quickly and/or limit consideration of alternative responses

Focus on Detail

- Ability to stay with problem at a small detail level until solved
- Answers often obscured by misdirection

Security Instinct

- Understanding how incidents are developed and having a sense of what is happening
- Only developed through hands-on experience

Where to begin

- Recognize you will need to train cybersecurity your future professionals
- Determine which jobs you can bring entry level candidates into immediately
 - Vulnerability Assessment
 - Level 1 SOC Analyst
- Hopefully, all areas can identify an entry level position
 - Some areas may need more advanced entry level
 - For example, Penetration testers may come from SOC analysts
 - Do not underestimate the need for technical knowledge in all areas – including compliance

Where to begin

Step 1: Train your trainers

- Make sure the people you have can train the people you need to bring in
- Train in basic management and communication as well as technical skills

Step 2: Document processes

- Entry positions identified should lend themselves to detailed repeatable processes
- Document these processes in detail

Where to begin

- Step 3: Hire your farm team
 - Hopefully with good, broad basic technology skills
 - Good attitude, ready to work and learn
- Consider hiring through a contractor
 - Contract to hire



Where to begin

- ❑ Step 4: Create paths for upward mobility within team
 - ❑ i.e. level 1 SOC analyst to level 2 SOC analyst
 - ❑ Current team members could become team leads of small groups and eventually managers of larger groups

- ❑ Opportunities for growth will help with retention
 - ❑ Top reason cybersecurity professionals leave their current position is they don't see an opportunity for growth
 - ❑ Continued training and develop also key to retention

Where to go next

- Always be on the lookout for great “free agents”
 - Especially where they fit into your system
 - Can also help expand your system and structure as you grow



Three Basics of Cybersecurity Team retention

Substantive, regular technical training



Three Basics of Cybersecurity Team retention



Regular Feeding

Three Basics of Cybersecurity Team retention

❑ Big Monitors

