illiilli CISCO

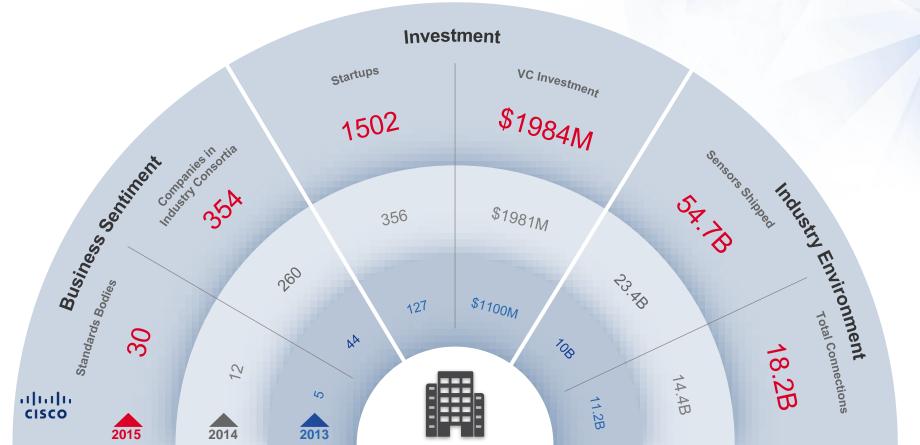
# Understanding and Defending Today's Cyber Threat Landscape

**Demetris Booth** 

Head of Security Products and Solutions Marketing (APJC)

29 March 2016

## The Rise of Digitization is Upon Us



#### Security Weighs on the Minds of Executives



Of Executives Very Concerned About Security

Much More Concerned Than 3 Years Ago

Agreed More Information Will Be Expected

### Security Challenges Calls For New Strategies



Attackers are tapping into legitimate resources, becoming adept at deploying hard-to-detect and highly profitable campaigns



Defenders confidence is declining, but awareness is driving action to deploy new strategies



Collaboration is needed to combat today's innovative and persistent attacks and develop architecture for tomorrow



# Inside the Attacks

Industrialization of Cybercrime



#### Direct Attacks Generate Big Profits

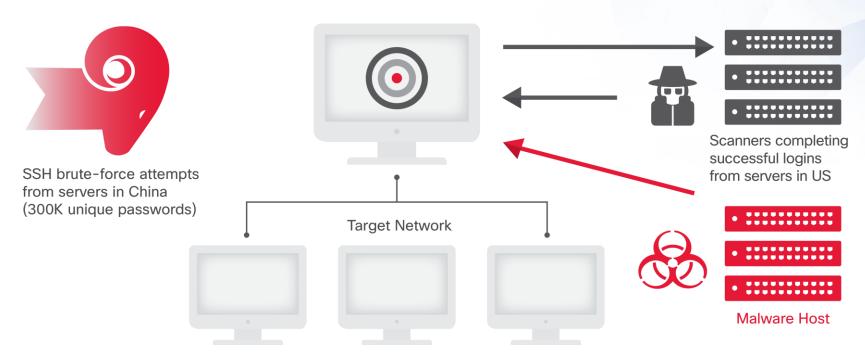
More efficient and more lucrative





#### Corralling an SSHPsycho

Global collaborative attacks





#### Browser Infections: The Pest That Persists



More than

85%

of the companies studied were affected each month



# Creating Action Through Awareness

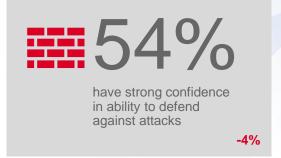
Confidence is declining, but awareness is driving action

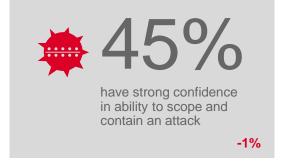


#### Attack Awareness Fades Confidence















#### Reliability Breeds Complacency

92%

Of devices surveyed across the Internet were running known vulnerabilities with an average of 26 each

31%

Of devices surveyed across the Internet were End of Service

5%

Of devices surveyed across the Internet were End of Life













#### Increased Awareness Drives Effort

More organizations are taking actions to become more prepared for what's going to happen.

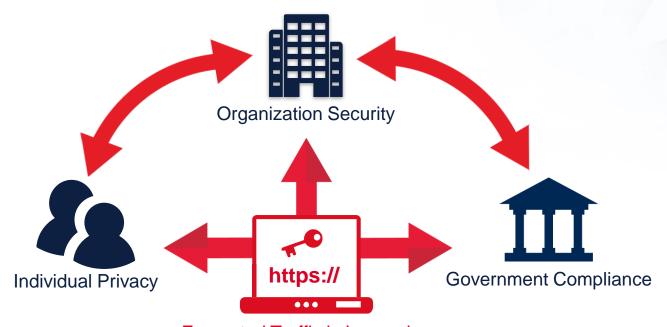
Security Awareness and Training	90%	+1%
Formal Written Policies	66%	+7%
Outsource Audit and Consulting	52%	+1%
Outsource Incident Response	42%	+7%
Outsource Threat Intelligence	39%	N/A





### Encrypted Traffic: A Sign of the Times

The growing trend of web encryption creates false sense of security and blind spots for defenders





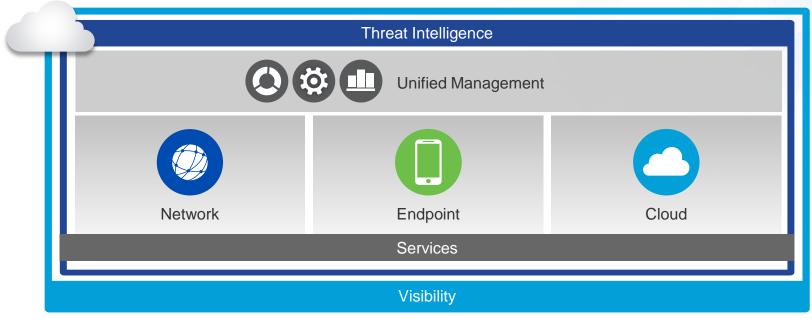


# Integrated Approach

A New Way of Defeating Cyber Attacks



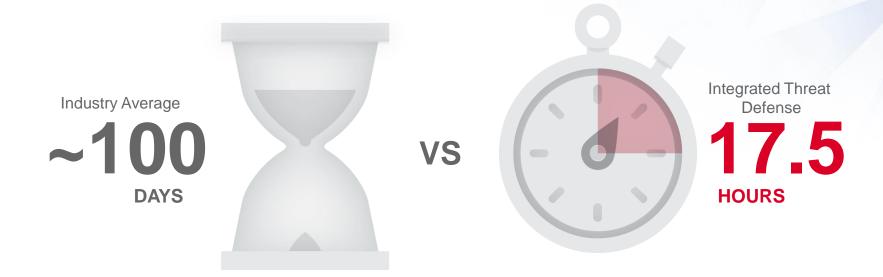
#### Integrated Architectural Approach



Pervasive | Integrated | Continuous | Open



# Integrated Threat Defense Reduces Time to Detection





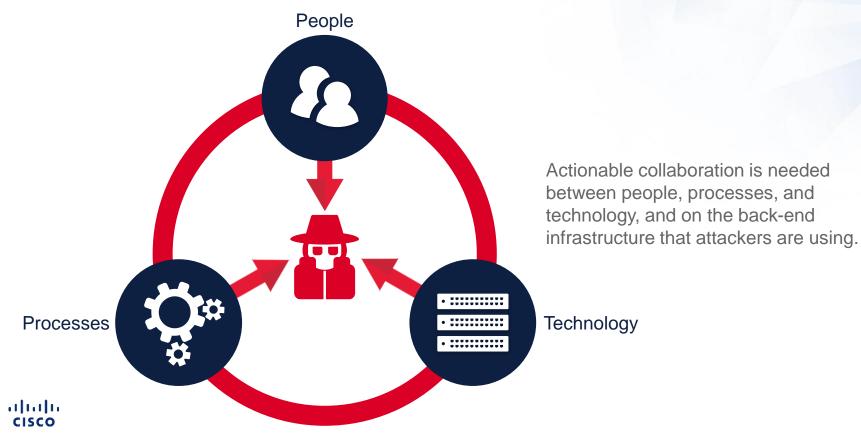
#### Six Tenants of an Integrated Threat Defense

- 1. Richer network and security architecture needed
- 2. Best-in-class technology alone cannot deal with threat landscape
- 3. Integrated threat defense can converge on encrypted malicious activities
- 4. Open APIs are crucial
- 5. Requires less gear and software to install and manage
- Automation and coordination aspects help to reduce TTD, containment, and remediation



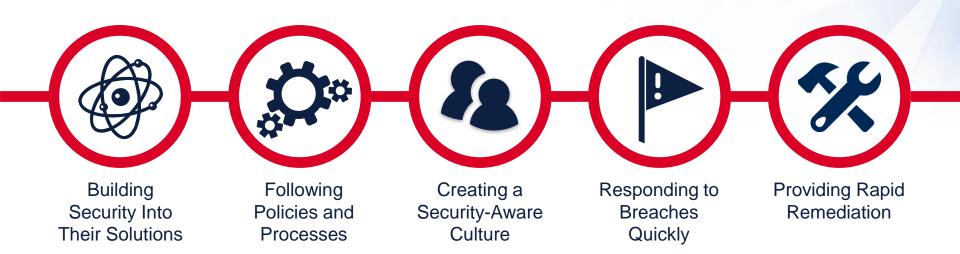


#### Actionable Collaboration is Critical



#### Trust, But Verify

Technology vendors need to demonstrate trustworthiness by:





#### 2016 Annual Security Report

# www.cisco.com/go/asr2016



