Your Time Is Now



Portorož, 15. in 16. marec 2017



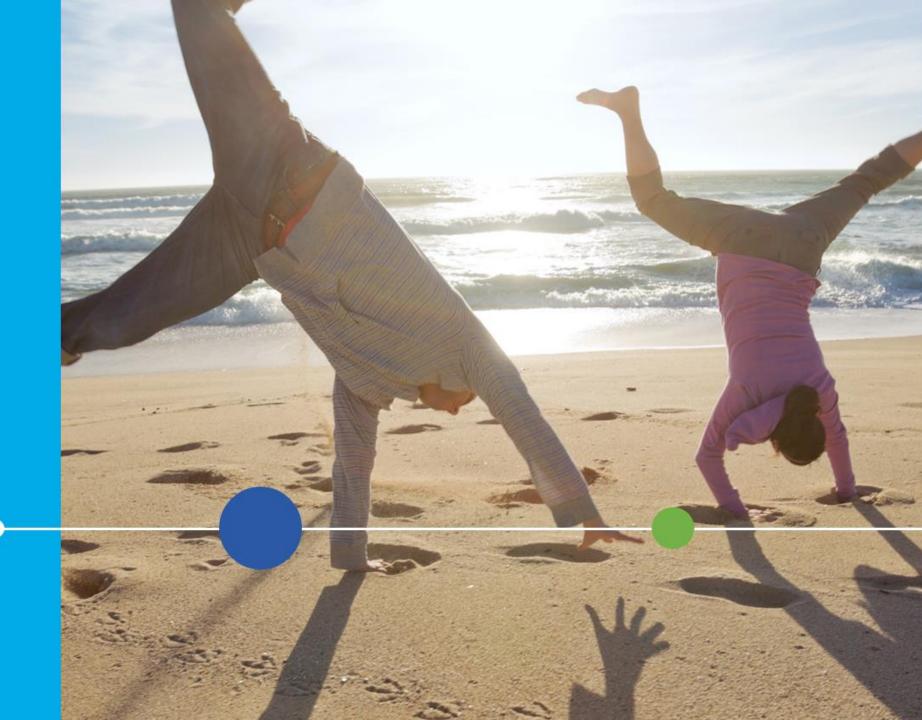
Your Time Is Now

What can we lose not implementing proper security in our IT environment?

Aleksandar Pavlovic Security Account Manager Cisco

Cisco Connect

Portorož, 15. in 16. marec 2017



Increasing Digital Traffic Creates a Greater Attack Surface Global IP Traffic to Triple by 2020











2.3 ZB

Annual global IP traffic

66%

of IP traffic will be from Wi-Fi and mobile devices 82%

of all consumer Internet traffic will be video 2X Broadband speeds will double

Crack in the Bottom Line



Over 25% of Revenue at Risk from a Security Breach



experienced a loss of revenue

38% of them experienced a significant loss (>20%)

Cisco Telemetry

Cisco Connect

Global

2017 Security Capabilities Benchmark Study



- 16 billion web requests a day ٠
- 600 billion emails a day •
- In aggregate, block almost ٠ 20 billion threats per day
 - More than 1.5 million unique malware samples daily
- **18.5 billion AMP queries** •

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CloudLock **Telemetry**

- 10 million users under management
- 15 billion user activities being tracked
- 222,000 apps discovered
- 1 billion files monitored daily



Conducted over the summer of 2016

Study included 13 countries

United States China Brazil India Germany Japan Mexico Italy United Russia Kingdom France Australia Canada

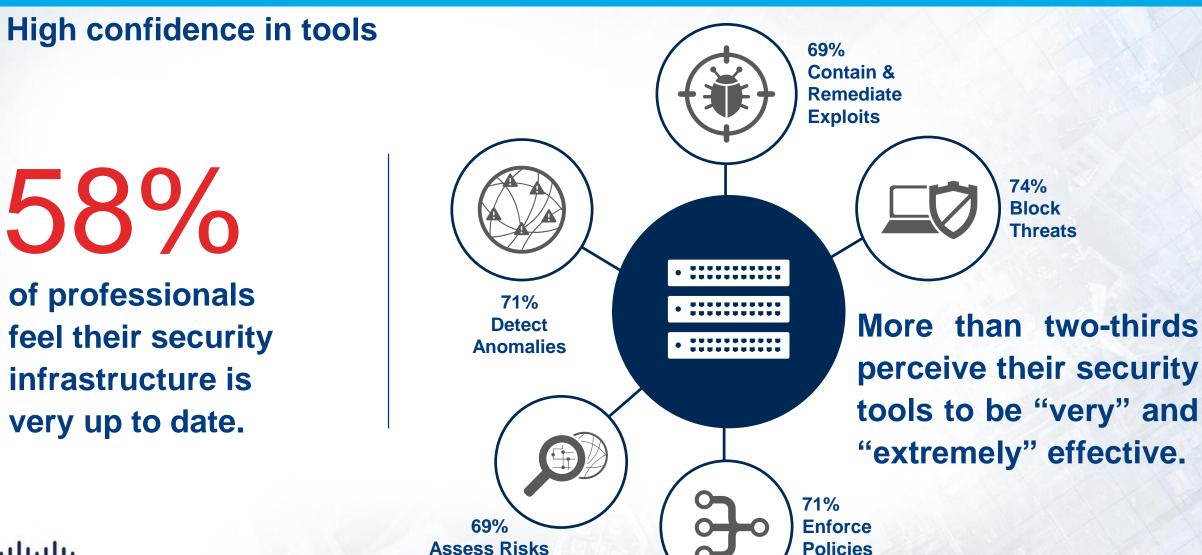


Over 2900 respondents

CSOs	49%
SecOps	51%
Large enterprise	12%
Enterprise	38%
Midmarket	50%

Perception





Out in the Open



Half of Organizations Come Under Public Scrutiny Due to Security Breach



49% of organizations have faced public scrutiny of organizations have of a security breach

How did this most recent breach become known externally?

50% **Voluntary Disclosure**

31% **Involuntary Disclosure**

31% Reporting **Requirements**

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The Top 4 Sources of Concern

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Which Security Professionals Found in Defending Against a Cyberattack



Mobile Devices 58%

Data in Public Cloud

Cloud Infrastructure 57%

User Behavior **57%**

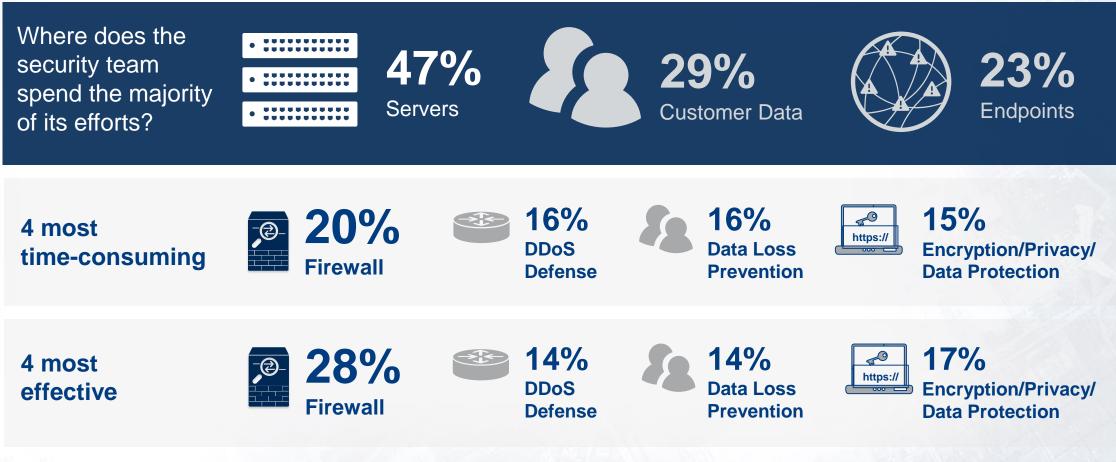


Percentage of respondents who find the category very and extremely challenging to defend

Hard to Defend



Effort and Time Spent on Areas of Concern





Email is still the #1 threat vector (people are still the weakest link)

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Cisco is a Market Leader for Secure Email Gateways for a Whole Decade

This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Cisco.

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Gartner's Magic Quadrant for Secure Email Gateways Peter Firstbrook, Neil Wynne, June 29, 2015

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Spam Comes Roaring Back

Email is Back in Vogue

5K

4.5K

4K

3.5K

3K

2.5K

2K

1.5K

1K

.5K

2010

Emails / Second

65% of email is spam

8% of spam is malicious

2013

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Messages contain attachments and URL's

Socially engendered messages are well crafted and specific Credential "hooks" give criminals access to your systems



Forged addresses fool recipients

Threat actors extensively research targets

Money and sensitive information are targeted



Malware encrypts critical files

Locking you out of your own system Extortion demands are made

Process of Attacks





Obstacles to Advancing Security

Business Constraints



Complexity

6-10 (29%)

6-10 (29%)

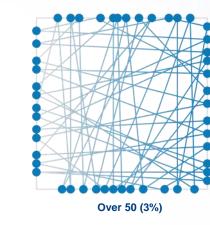
21-50 (11%)

11-20 (18%) 21-50 (7%)

1-5 (45%)

1-5 (35%)

11-20 (21%)



Over 50 (6%)

Vendor 55%

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of organizations use 6 to >50 security vendors

2016 (n=2,850)

Products 65%

of organizations use 6 to >50 security products

2016 (n=2,860)

(Change from 2015)

Over 4 Out of 10 Security Alerts are Never Investigated: Why?



The Uninvestigated Alerts Create Huge Business Risk

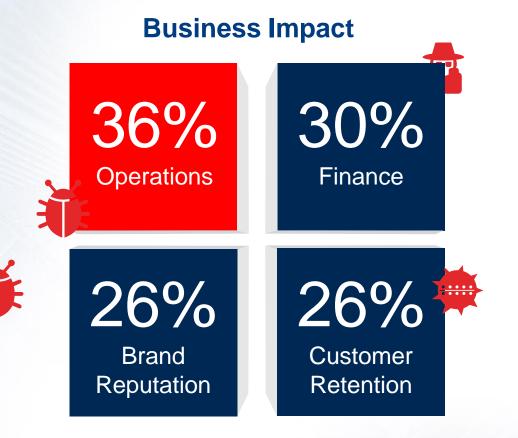


For Every 5000 Alerts, 616 Legitimate Cisco Were Never Investigated or Remediated Connect -



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Security Breaches Paralyze Systems and Impact Key Business Operations



Operational Impact



1-8 Hours time that systems were down for 65% of organizations Nearly 30% of systems were impacted for 61% of organizations

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Losses After an Attack are Real for Organizations



Opportunity 23%

42% were losses >20% Revenue 29%

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38% were losses >20% Customers 22%

39% were losses >20%

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2017 Security Capabilities Benchmark Study (n=2,912)

Breaches Driving Improvement



said a breach drove improvements in security threat defense policies, procedures or technologies to a great extent.

(2016: n=1388)

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Improvements Made to Protect Your Company from Security Breaches (Top 5 mentions)

38%

Separated the security team from the IT department

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38%

Increased security awareness training among employees

37%

Increased focus on risk analysis and risk mitigation

Increased investment in security defense 37% Increased investment in s technologies or solutions

37% Increased investment in the training of security staff

(2016: n=1375)

Drivers Minimizing Risk





Make Security a Business Priority

Leadership must own, evangelize, fund security.



Measure Operational Discipline

Review security practices, control access points, patch.



Test Security Effectiveness

Validate, improve security practices, network connection activity.



Integrate Defense Approach

Implement architectural approach to security, automate processes to reduce time to react to, stop attacks.

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Attack Preparedness Plan

Drivers Minimizing Risk





Executive Leadership

Executive leadership must own and publicly evangelize security as a high priority.



Policy

Regularly review security practices, and control access points to networks systems, applications, functions, and data.



Protocols

Regularly, formally and strategically review and improve both security practices and connection activity on the network.



Tools

Put tools in place to enable users to review and provide feedback on security, and empower them to increase security controls on high-value assets.



Detect

To alert your organization to security weaknesses before they become full-blown incidents, implement a system for categorizing incident-related information.



Prevent

To minimize impact of breaches, encourage employees to report failures and problems, and clearly communicate security processes and procedures.



Mitigate

Implement and document exact procedures for incident response and tracking. Inform and educate all parties on precise, step-by-step crisis management response protocol.



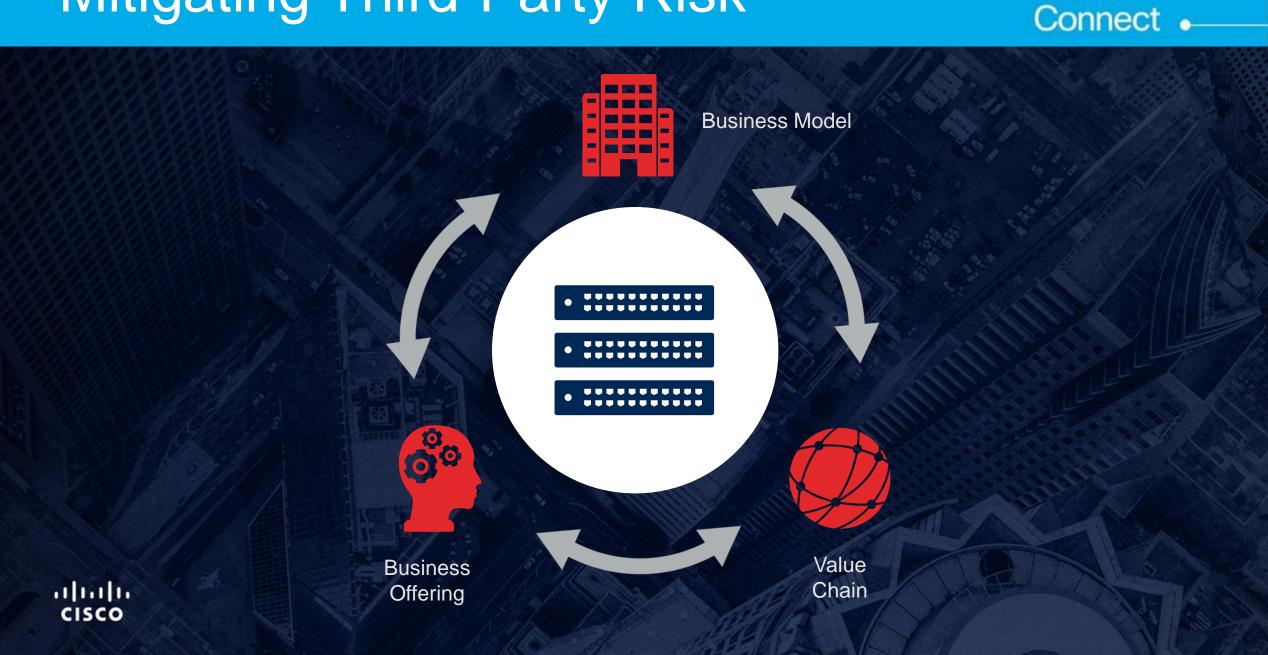
Minimized Risk



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Industry Perspective

Mitigating Third-Party Risk



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Encryption and Security

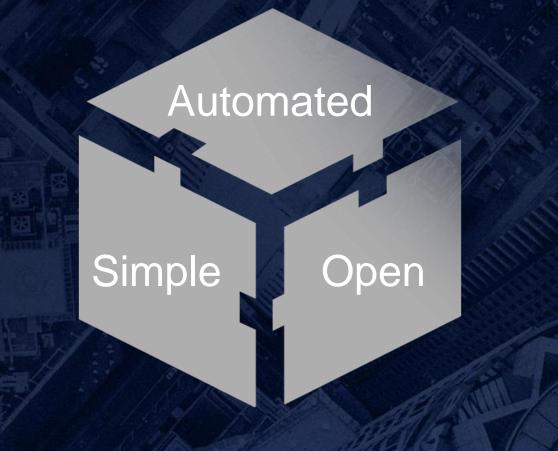




Keys to Success



Integration of technology reduces opex for success, reduces the burden on existing people, and delivers better outcomes.





Summary





Annual Cisco Cybersecurity Report Cisco

Download the Cisco 2017 Annual Cybersecurity Report

www.cisco.com/go/acr2017