



2014 ACIIA CONFERENCE BALI, INDONESIA

ASIAN CONFEDERATION OF INSTITUTE OF INTERNAL AUDITORS

The Stones Hotel - Legian, Bali 24 - 25 November 2014

Organized by:



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Cybercrime and Security State of the Nation

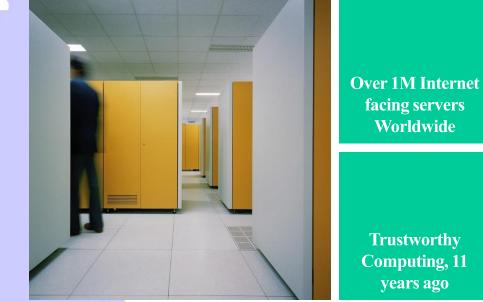
Pierre Noel

Asia Chief Security Officer

Microsoft



Why am I talking to you?



2nd most attacked organization, behind Pentagon

Taking down bad people....

Security and privacy should be a top leadership concern

Managing risk in an increasingly connected world

security in terms of new vulnerabilities.





median # of days **attackers are present** on a victim network **before detection**

\$ 3.5M Average cost of a data breach to a company 15 % increase YoY



Job security Customer loyalty

Implications

Brand reputation Legal liability Intellectual property

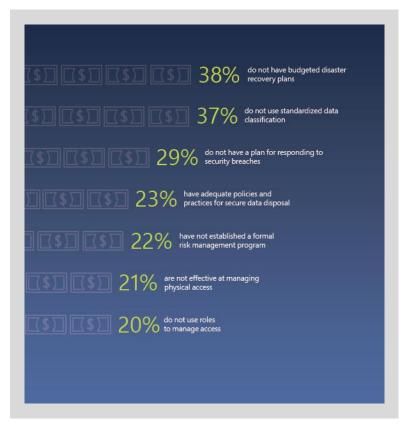
Impact of cyber attacks could be as much as **\$3 trillion** in lost productivity and growth

Market trends

Security trends report

38% the name are addressed to the name of	45% for a un sundantizad 40% for a un sundantizad 36% for an un sundantizad 36% for a un sundantizad 34% for a un sundantizad 33% for a transmission 33% for a transmission 33% for a transmission 24% pression for a un sundantizad 24% pression for a un sundantizad 20% grant a un sundantizad 20% grant a un sundantizad 20% grant a un sundantizad		12,000 anonymized surveyed results
Security trends in financial services key findings and recommendations Microsoft Trustworthy Computing 51% where we are a set of the second 30% the set of the second set 31% from the backgreat	Security trends in the public sector Key findings and recommendations Microsoft Trustwortby Computing 72% fixed on backgroup desare 51% detection a globe for the magneting 35% af and appropriate for any of 35% af and appropriate for any of Microsoft any of Micro		Cloud security readiness tool
28% development requirement provided 26% back and development requirement 26% back and development requirement 23% back and provided back and a set of the angle 23% back and provided back and a set of the angle 23% contrast and the angle angle and the angle angle and the angle angle and the angle angle angle and the angle an	32% are activities at 31% de la carte cartes 29% les activités 29% les activités Security trends in retail organizations Key findings and recommendations Trustworthy Computing	<u>(5</u>)	Worldwide user base

Security trends for banking



38% of surveyed financial organizations do not have budgeted disaster recovery plans

37% of surveyed financial organizations do not use standardized data classification

23% of surveyed financial organizations have adequate policies and practices for secure data disposal

Security trends for retail



72% of surveyed retail organizations do not have budgeted disaster recovery plans

51% of surveyed retail organizations do not have a plan for responding to security breaches

31% of surveyed retail organizations do not use role-based access control

Security trends for healthcare

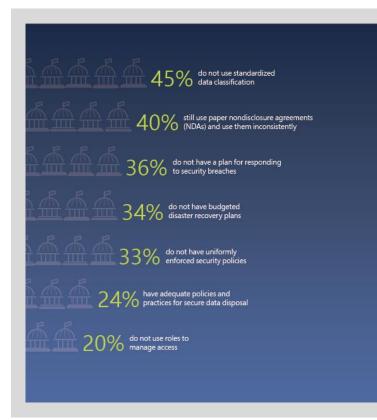


51% of surveyed healthcare organizations conduct system-wide data backups that are tested regularly

31% of surveyed healthcare organizations have a disaster recovery program

23% of surveyed healthcare organizations cannot prevent a power outage from affecting their organization

Security trends for government



45% of surveyed public sector organizations do not use standardized data classification

40% of surveyed public sector organizations still use paper Non-Disclosure Agreements (NDAs) and use them inconsistently

33% of surveyed public sector organizations do not have uniformly enforced security policies

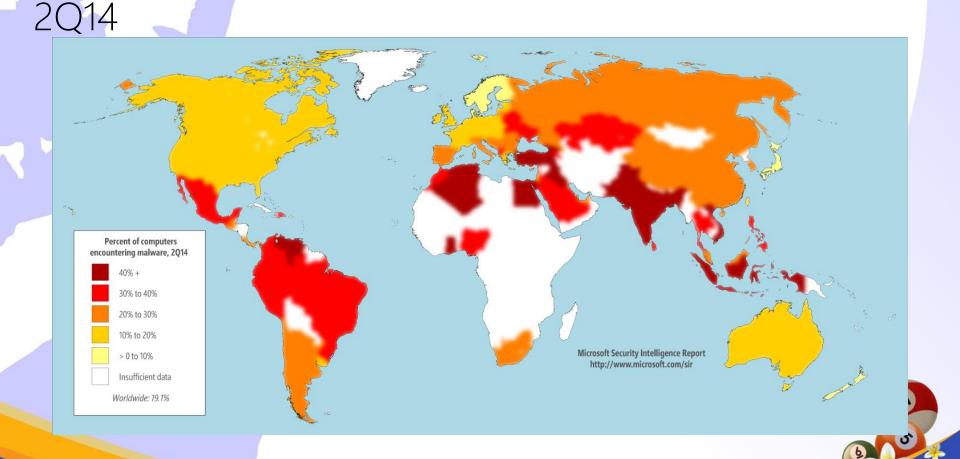






State of the Nation

ER by country or region



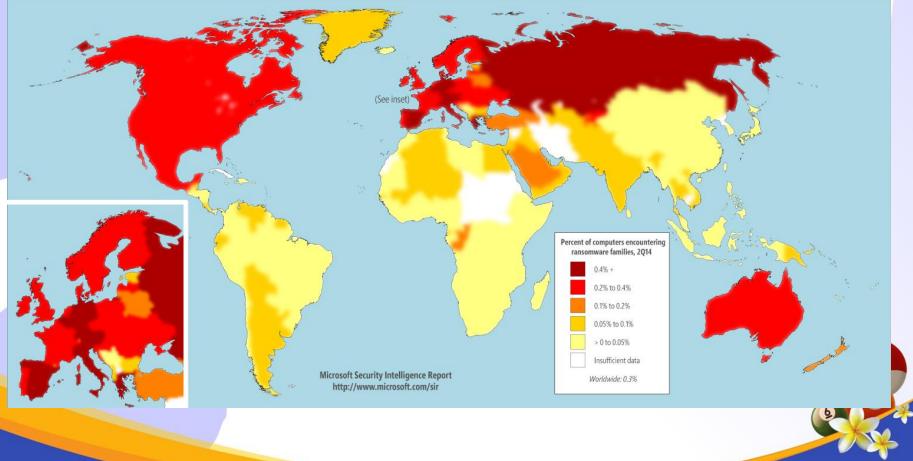
CCM by country or region 2Q14 Computers cleaned per 1,000 scanned, 2Q14 20 + 15 to 20 10 to 15 5 to 10 **Microsoft Security Intelligence Report** > 0 to 5 http://www.microsoft.com/sir Insufficient data Worldwide: 7.2





Ransomware by country or region





Where are my risks... Search no further....

HDD Samples Examined	HDD Samples Infected	HDD Infection Rate
51	43	84.31%
41	38	92.68%
44	26	59.09%
50	26	52%
30	13	43.33%
216	146	67.59%
	Examined 51 41 44 50 30	Examined Infected 51 43 41 38 44 26 50 26 30 13

Key Findings

Computer infection rates by market:

*

* * ** ** ** ** ** ** **

* * *

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Philippines		
Malaysia		
Indonesia		
Thailand		
Vietnam		

Brands affected: Acer, Asus, Dell, HP, Lenovo, Samsung, Toshiba Hard-drive swapping apparent on 28% of PCs

The Sample



	DVD Samples Examined	DVD Samples Infected	DVD Infection Rate
Thailand 23		16	69.57
Vietnam	9	6	66.67
Indonesia	19	19	100%
Malaysia	5	4	80%
Philippines 10		4	40%
Total	66	49	74.24%



Advanced Persistent Threat (APT)



August 2012 Saudi Aramco



30,000 computers down for two weeks





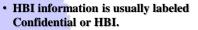


"If you protect your paper clips and diamond with equal vigor, you will soon have more paper clips and fewer diamonds"

Dean Rusk (USA Secretary of States 1961 – 1969)

It all starts with Data Classification

KNOW WHAT YOU ARE DEALING WITH

*HBI HIGH Business Impact 

- Unauthorized disclosure of HBI would cause severe or catastrophic material loss.
- Examples of common forms of sensitive information include (without limitation)
 - social security numbers,
 - credit card numbers,
 username and password combinations.
- In many cases this data is encrypted.

- MBI information is usually labeled Confidential or MBI.
- Only specific groups of employees, or approved non-employees with a legitimate corporate business need, have access to MBI content.
- Unauthorized disclosure may cause • serious material loss due to identity or brand damage,
 - operational disruption,
 - damage to corporations reputation,
 - · legal or regulatory liability.



- LBI information carries no or little risk of impact to the corporation if lost or stolen.
- Released financials, Public Relations campaigns and released product information are examples of LBI,

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Bring Your Own Device (BYOD)

Resilience

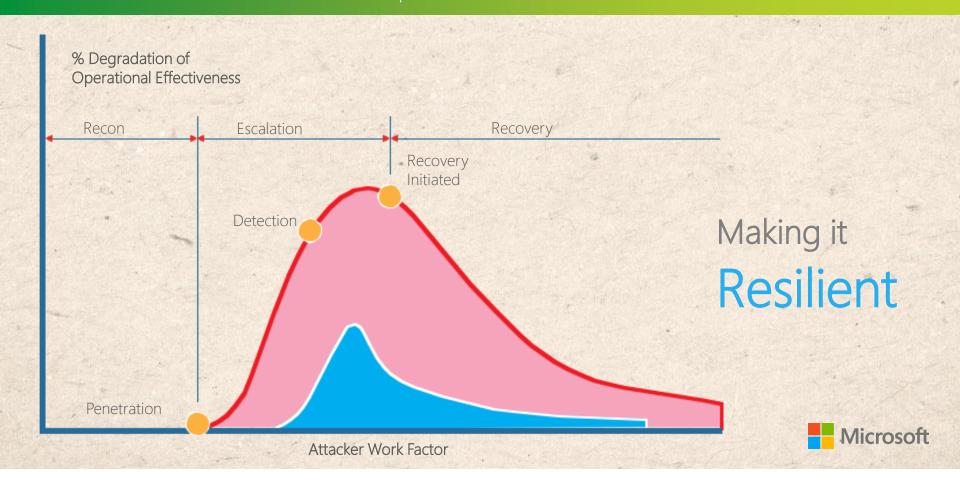
"The bamboo that bends is **stronger**

than the oak that resists." ~ Japanese proverb



Defining Resilience

Profiling a Resilient Information System



Evaluating Resilience



Microsoft

The Impact of Security Standards















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Case Study: Australia

Collaboration between Microsoft and the Australian government resulted in a series of implementations across local government agencies to provide better resilience to cyber incidents.





Patching applications and using the latest version of an application

Patching operating systems

Keeping admin right under strict control (and forbidding the use of administrative accounts for email and browsing)

Whitelisting applications



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