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## SECURITY 101— THE CRITICAL NEED TO GO BACK TO THE BASICS

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# Security 101: Back to the Basics- Security Simplified



All people participating in the security ecosystem must understand one basic principle

$$\text{Risk} + \text{Cost} = \text{Security}$$

What are the risks your organization faces & what is your role in the risk?

What is the “cost” when a breach happens?  
Opportunity & Capital

What is the true positive impact of understanding?

# Security 101: A world of change



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97%



48%



6:1

1000%



# Security 101: Where to start?



Understanding the past is the key to a successful security future...

**Zone of routine**  
Observable /Manageable

What am expecting in a given year?

**Zone of surprise**  
Uncertain / Insurable

What incidents did we not plan for?

**Zone of catastrophes**  
Rare/Extreme

How can we learn from infrequent but high impact events?



# Security 101: The basic framework

Identify

Protect

Detect

Respond

Recover

## People

Make security everyone's priority

Create and maintain the correct awareness and behaviours

Make sure that people know what to do when there is an incident

Ensure you have the practices in place to quickly safeguard your organization

Understand what has happened, why, and LEARN from it

## Process

Continually review your assets and their related risks

Make sure protection processes are automated

Facilitate around-the-clock monitoring

Make incident response and remediation a priority

Do the proper follow-up and analysis

## Technology



# Rule #1

## Understand the real threat

# Security 101: What are your biggest threats?



Ransomware

Distributed denial of service

Trojans (banking or otherwise)

CEO fraud or whaling

Point of Sale frauds

Personal data breach

Espionage or IP theft

Disruptive cyber attack

# OR





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# Security 101: Employees as an “attack surface”



**72%** of employees use unauthorized file sharing for work <sup>1</sup>



**1 in 7** users access gaming, adult or extreme sites weekly <sup>2</sup>

**1 in 4** users - access an insecure WiFi hotspot weekly <sup>3</sup>



**10**

**27%** of devices have an outdated OS <sup>4</sup>

**1 in 25** apps leak sensitive credentials <sup>5</sup>



1 Workshare, 2013 <https://www.workshare.com/blog/72-of-employees-stuck-with-unauthorized-file-sharing-services>  
2 Inappropriate mobile activity – how serious is the problem? Research by Wandera August 2017  
3 Infosec Partners, 2016 <http://infosecpartners.com/newsroom/2016/11/28/1-4-wifi-hotspots-insecure/>  
4 Mobile data report, Wandera July 2017  
5 Mobile data report, Wandera January 2017







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# Security 101: How are they getting in?



Turn on the camera



Track device location



Sabotage device settings



Steal username & password



Capture emails



Extract data



Turn on the microphone





Rule #2  
Everyone has a role to  
play to achieve great  
security...



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# Security 101: Where do your people have power?

## Management

How *exactly* is our organization's **data** used?

How do I reduce the risk of uncontrolled **security costs**?

Can I block access to risky, unofficial **applications**?

## Acceptable Use

What is the usage breakdown of **business vs. personal** on assets?



How can I enforce acceptable use **policies on Wi-Fi**?

How can I better understand the risk of **Shadow IT**?

## Policy



How do I make **Compliance Policies** effective 24/7?

How do I protect my users?

## Content Security to protect data

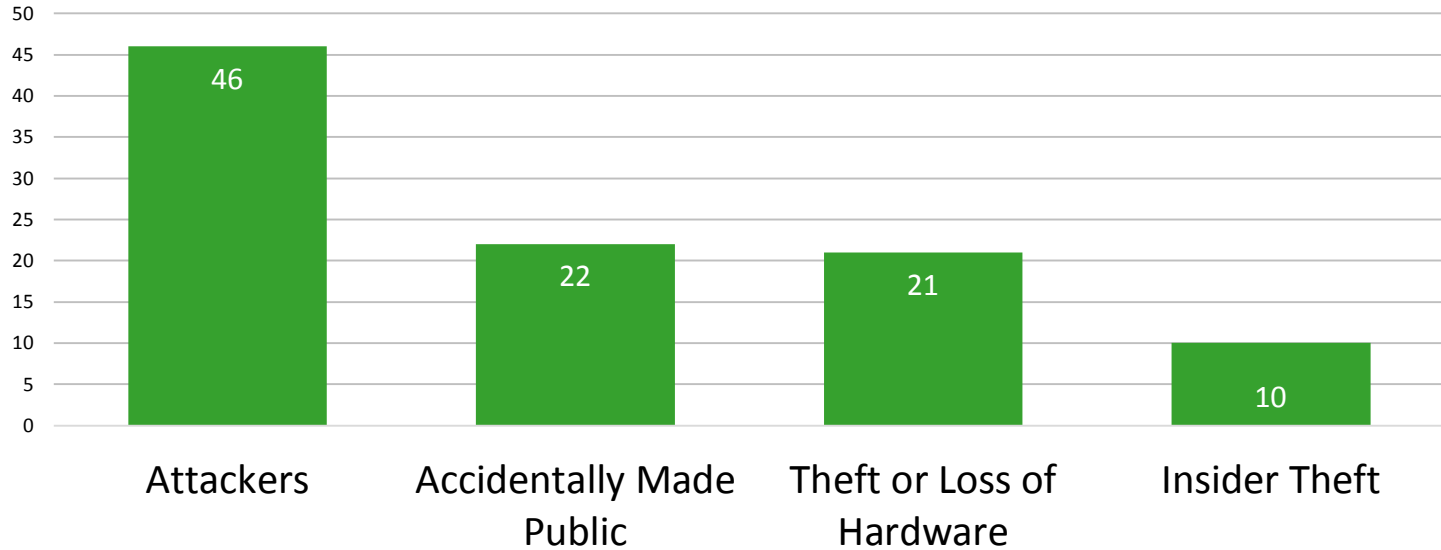
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# Security 101: The Impact of Ignorance?



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Top Cause of Data Breaches





Rule #3:  
Clouds can't be cloudy..  
Technology can't be



# Security 101: Complete data visibility

## Employees



Data, apps & activity

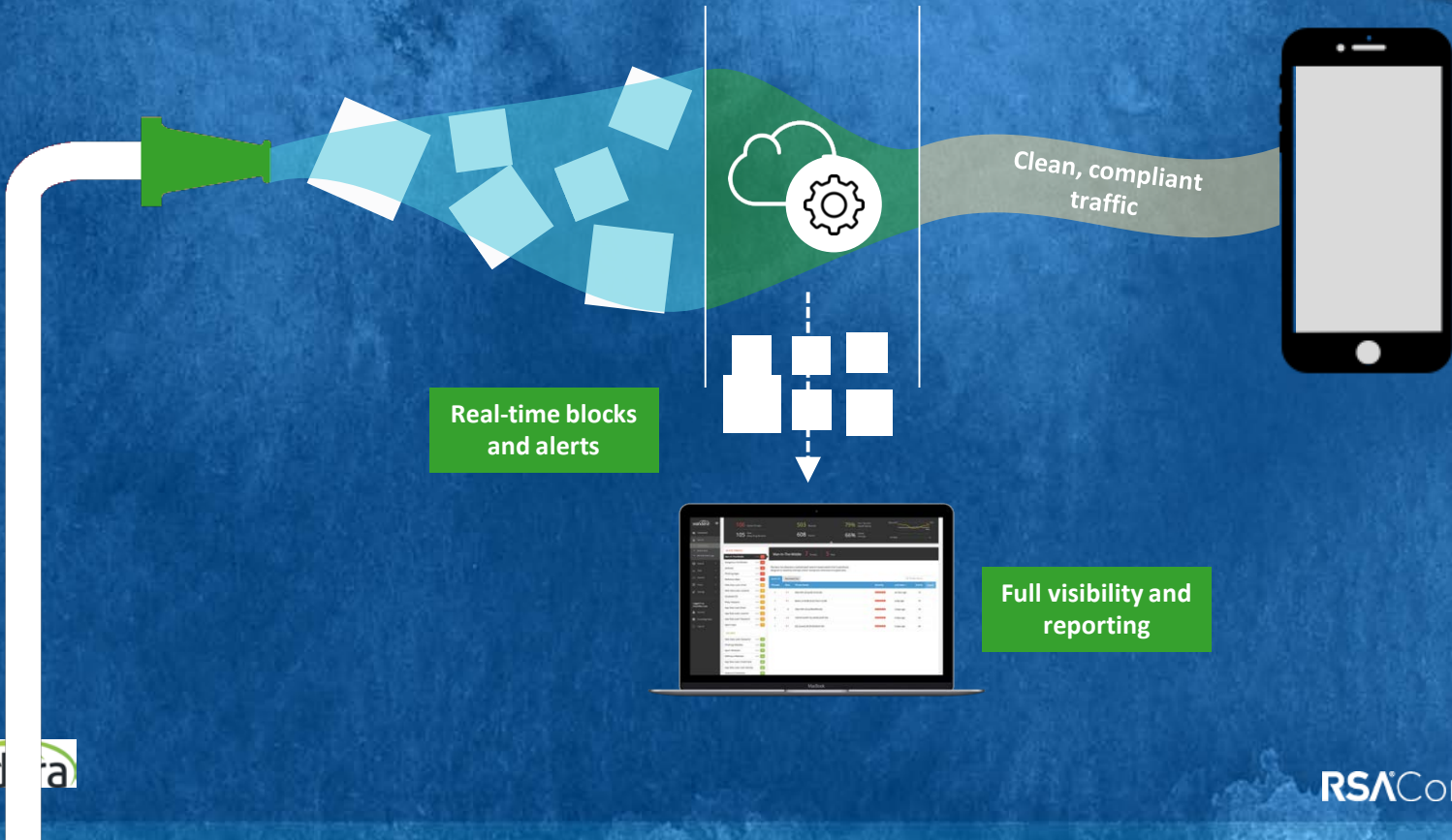


Network and WiFi



Enterprise

# Security 101: Stop threats before they arrive



Real-time blocks and alerts

Clean, compliant traffic

Full visibility and reporting

# Security 101: What is our endgame?



1

Review and Implement a basic framework that focuses on the **zone of routine**

2

Good data security is something **EVERYONE** plays a part in.  
**INCLUSION & EDUCATION** are key.

3

Constantly review what data is **CRITICAL**, the **COLABORATE** on how to protect it, and **TEST** frequently your processes and the technology used to **SUPPORT** it.





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**THANK YOU**

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