

Cyber Threat Trends and Strategies

A U.S. and Global Perspective

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Solutions

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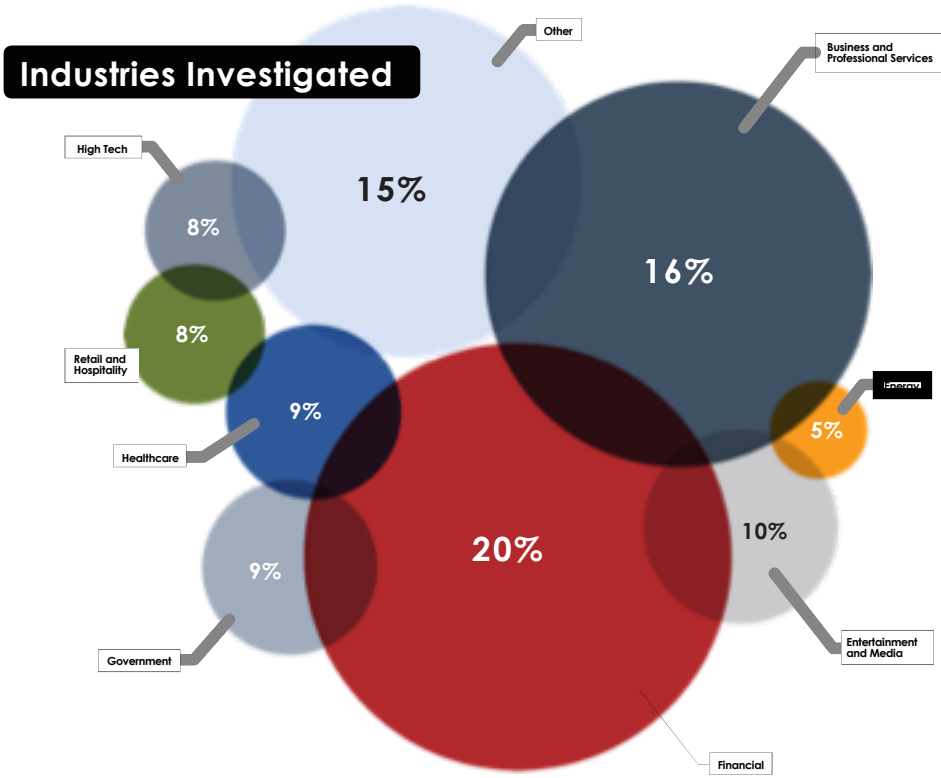
Today's Threat Landscape:

What has changed, what hasn't

THE EVOLUTION OF THE THREAT



Who's a Target

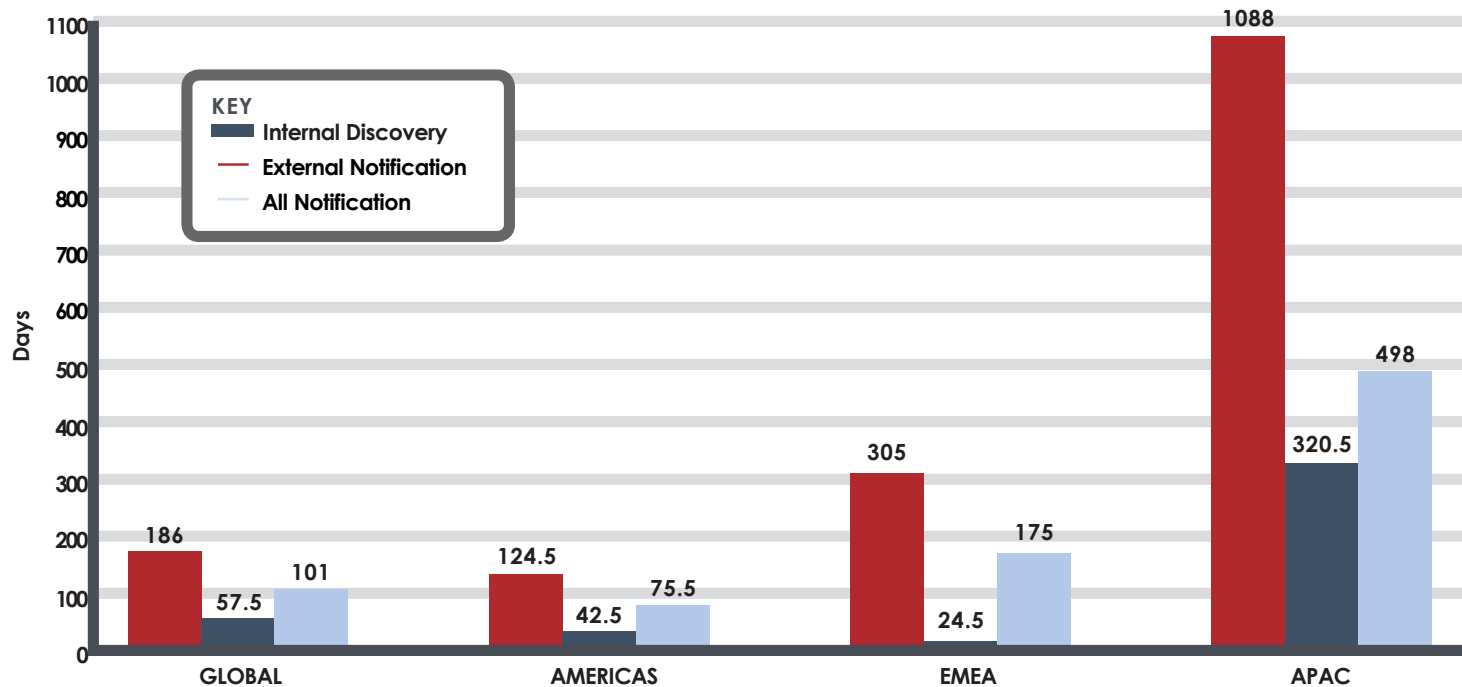


Organizations Investigated By Mandiant in 2017, By Industry

Industry	Americas	APAC	EMEA	Global
Business and Professional Services	18%	10%	12%	16%
Energy	5%	2%	7%	5%
Entertainment and Media	11%	7%	5%	10%
Financial	17%	39%	24%	20%
Government	6%	7%	18%	8%
Healthcare	12%	2%	2%	9%
High Tech	9%	10%	7%	8%
Retail and Hospitality	10%	2%	4%	8%
Other	12%	20%	22%	15%

By The Numbers, Americas

Median Dwell Time, By Region

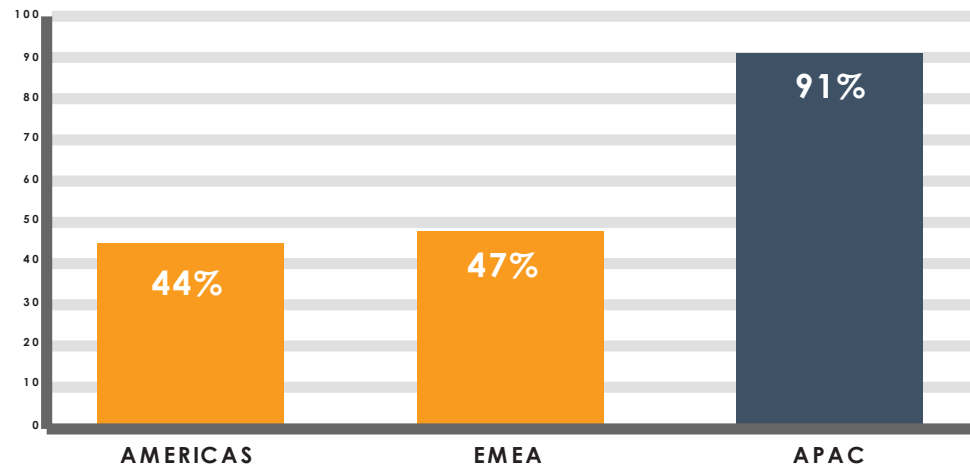


Once a Target, Always a Target

56%

victims subsequently
retargeted

Victims subsequently retargeted by region



2018

and beyond...

- More destructive attacks
- Attribution will become more important
- Attacks will continue to align with global conflicts
- More reliance on cloud infrastructure (both victims and attackers)
- Cyber security will continue to be a national focus
- More and more sophisticated threat actors will emerge
- More government involvement
- Intelligence and sharing are critical to stay ahead of the threats



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Looking Ahead

Lessons Learned and Key Cyber Strategies

Spectrum of Nation State Capabilities












Aspiring

 Azerbaijan	 Luxembourg
 Bahrain	 Malaysia
 Bangladesh	 Mexico
 Belgium	 Mongolia
 Bosnia and Herzegovina	 Morocco
 Bulgaria	 Nigeria
 Chile	 Oman
 Cyprus	 Panama
 Czech Republic	 Qatar
 Ecuador	 Saudi Arabia
 Egypt	 Singapore
 Estonia	 Sudan
 Ethiopia	 Thailand
 Honduras	 Turkmenistan
 Hungary	 United Arab Emirates
 Kazakhstan	 Uzbekistan

Developing

 Argentina	 North Korea
 Belarus	 Norway
 Brazil	 Pakistan
 Colombia	 Philippines
 Denmark	 Poland
 Finland	 South Africa
 India	 Spain
 Italy	 Syria
 Iran	 Switzerland
 Lebanon	 Turkey
 Myanmar	 Ukraine
 Netherlands	 Vietnam

Mature

 Russia	 France
 Israel	 Germany
 China	 South Korea
 United States	 Canada
 UK	 Australia
 New Zealand	


“More than 60 countries have or are developing tools for computer espionage and attacks.” –WSJ



WHAT HAVE WE LEARNED?



THERE EXIST **FEW RISKS OR REPERCUSSIONS**
FOR ATTACKERS

An aerial photograph of a vast mountain range, likely the Himalayas, with layers of peaks and valleys. The sky is filled with soft, white clouds. A dark, semi-transparent rectangular box is centered over the image, containing text in white and cyan colors.

**ATTRIBUTION AND THREAT INTELLIGENCE
ARE MORE IMPORTANT**



DISCLOSURE IS **MORE PROBABLE**
AND NOT ON YOUR TERMS



THE GOAL IS **NOT** TO **ELIMINATE** BREACHES BUT...
ELIMINATE THE CONSEQUENCES OF A **CYBER SECURITY BREACH**

CYBER MATURITY MODEL

SOPHISTICATION OF THE THREAT

• TOOLS-BASED

• INTEGRATED FRAMEWORK

• ADAPTIVE DEFENSE

• RESILIENT









NATION STATE
ATTACKS
CYBER ESPIONAGE

CYBERCRIME

CONVENTIONAL
THREATS

SECURITY CAPABILITY

WHAT'S WORKING?

-  Move sensitive data to its enclave network
-  Improve controls for privileged accounts
-  Promote a “Security First Culture”
-  Focus on phishing prevention
-  Require two-factor authentication for remote access
-  Only permit authorized programs to run on servers
-  Test the incident response plan
-  Use new technology to block advanced malware

National Framework

- Manage Assets
 - **Hardware** Asset Management
 - **Software** Asset Management
 - **Configuration** Baseline Management
 - **Vulnerability** Management
- Manage Accounts
 - Manage **Trust** in People Granted Access
 - Manage Security Related **Behavior**
 - Manage **Credentials** and **Authentication**
 - Manage **Privileges**
- Manage Events
 - **Boundary** Protection
 - **Prepare** for Incidents and Contingencies
 - **Detect** Suspicious Events
 - **Respond** to Incidents and Contingencies



The FireEye logo consists of the word "FireEye" in a dark grey, sans-serif font, positioned inside a light blue circle. The background of the slide features abstract geometric shapes in red, black, and white, along with thin white lines.

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Thank You

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