

# Microsoft Digital Crimes Unit

Miguel E. Sciancalepore  
Digital Crimes Units Lead LNM and Caribbean



# Cybercrime Threats are Evolving


Cybercrime costs US economy up to \$140 billion annually, report says

Los Angeles Times [2013]

**Los Angeles Times**

How hackers allegedly stole “unlimited” amounts of cash from banks in just a few hours

Ars Technica [2013]

 **ars technica**

Universities face a rising barrage of cyberattacks

Ars Technica [2013]

 **ars technica**

Malware burrows deep into computer BIOS to escape AV

Researchers have discovered one of the first pieces ever used in the wild that modifies the software on the motherboard of infected computers to ensure the infection can't be easily eradicated...

The Register [September 2011]

**The Register**

Forget carjacking, soon it will be carhacking

Rising cyber security risks to drivers as their cars become increasingly powered by and connected to computers have prompted the US auto-safety regulator to start a new office focusing on the threat...

The Sydney Morning Herald [2013]

**The Sydney Morning Herald**


Cyberattacks on the rise against US corporations

New York Times [2013]

**The New York Times**

Espionage malware infects rafts of governments, industries around the world

Ars Technica [2013]

 **ars technica**





**Every second,**  
12 people are victims of cybercrime:  
**400 million every year.\***

**50%** of online adults have  
been victims in the past year.

**1 in 5**  
Small and medium enterprises  
are targeted by cyber criminals.\*\*

Cybercrime costs businesses  
**\$450 billion a year.\*\*\***

**Financial Fraud**  
**53%** of the world's securities  
exchanges were targeted in 2012.

**Online Child Exploitation**  
The NCMEC has reviewed more than  
**90M images and videos**  
of child pornography.\*\*\*\*

\* 2013 Norton Report

\*\* National Cyber Security Alliance

\*\*\* 2014 McAfee / Center for Strategic & International Studies study

\*\*\*\* National Center for Missing and Exploited Children



# Digital Crimes Unit

Malware  
disruption

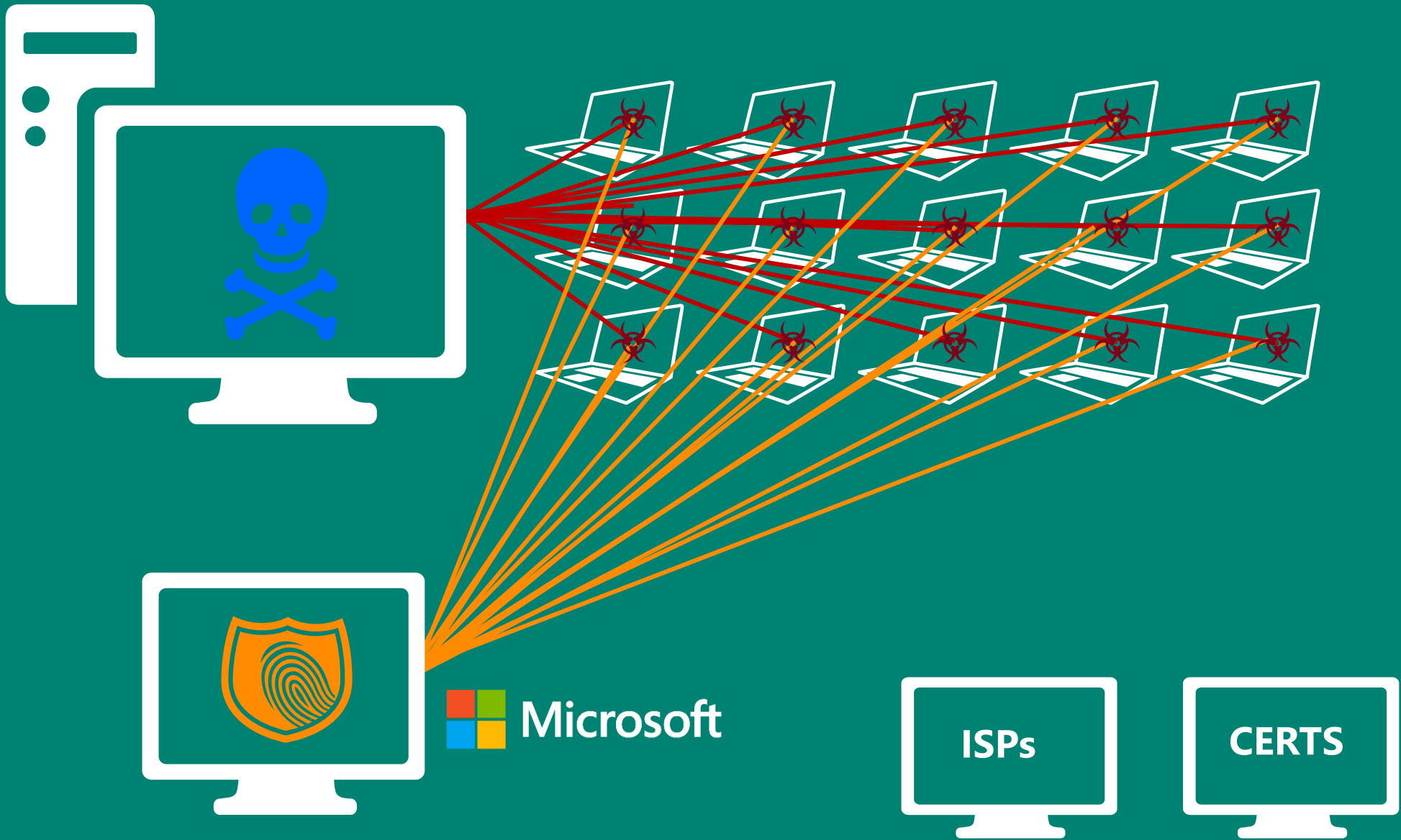


IP  
protection



Protection  
of vulnerable  
populations







# Digital Crimes Unit



Big data



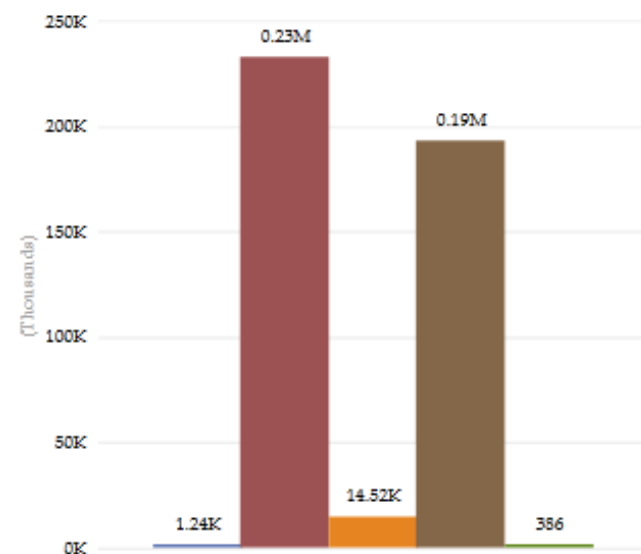
Investigations



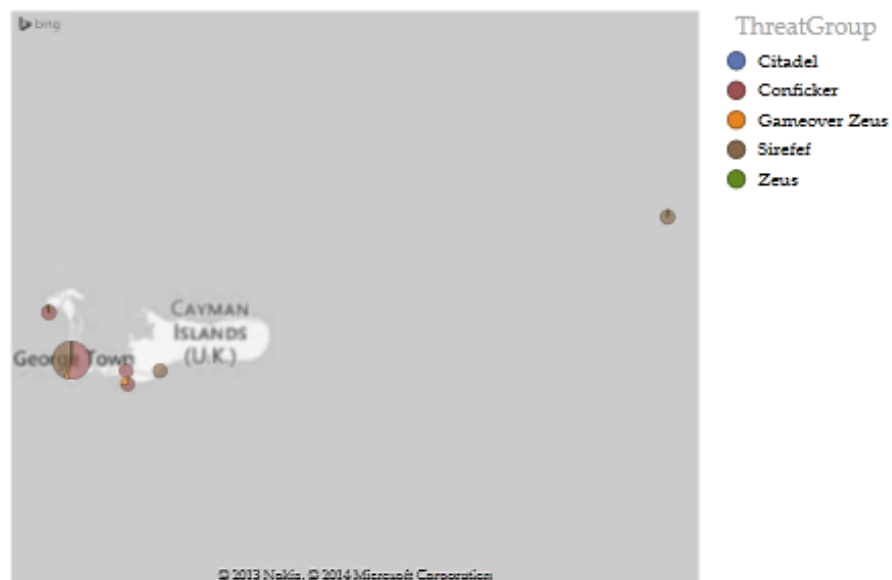
Legal action

# Country Summary

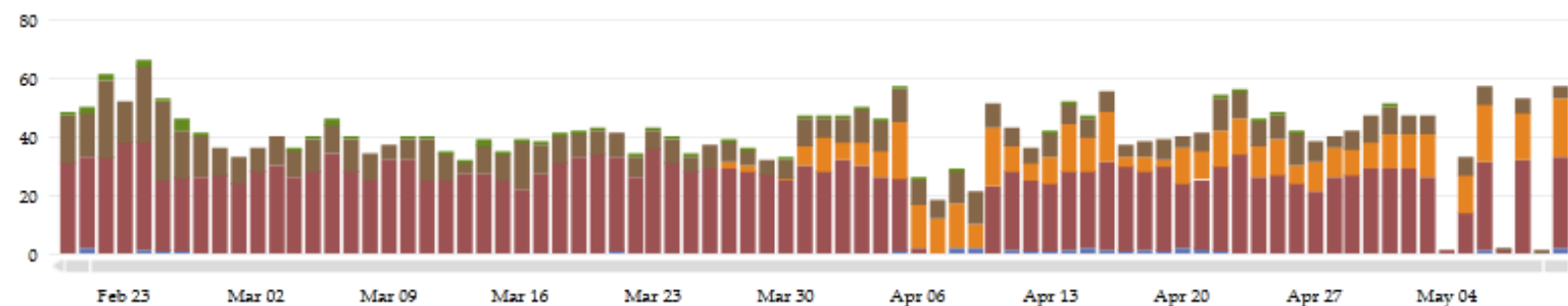
Connections by ThreatGroup



Connections by City, and ThreatGroup



Daily Distinct IPs by Date, and ThreatGroup



# Azure Active Directory Premium

Microsoft Azure | Subscriptions | audrey.oliver@wingtiptoysonline.com

## sign ins from possibly infected devices


May indicate an attempt to sign in from possibly infected devices.

INTERVAL: Last 30 days

Sign ins have been processed up to 4/28/2014 3:54:56 AM.

Displaying the most recent results, up to 1,000.

USER	CLIENT	DEVICE IP...	DEVICE LOCATION	LAST SIGN IN TIME	LATEST POTENTIAL...	SUSPECTED INFECTION
Weldon Driggers	Windows 8;msoidsvc.e...	81.25.53.98	Moskva, Moskva, RU	4/27/2014 10:18:40...	4/23/2014 10:13:07 AM	CONFICKER
Philip Barba	iOS 7;Mobile Safari 7.0	98.65.189.70	Daytona Beach, Florida, US	4/27/2014 10:18:40...	4/23/2014 1:59:04 PM	ZERO ACCESS
Dick Soper	Ubuntu;Firefox 26.0	79.136.63.151	Linkoping, Ostergotlands Lan...	4/27/2014 10:18:40...	4/23/2014 1:02:44 PM	BAMITAL
Audrey Oliver	Windows 8;IE 10.0	98.30.124.68	Wapakoneta, Ohio, US	4/27/2014 10:18:40...	4/23/2014 2:37:19 AM	ZERO ACCESS





# Protecting Your Organization and Yourself

*Move to Cloud for greater protection*

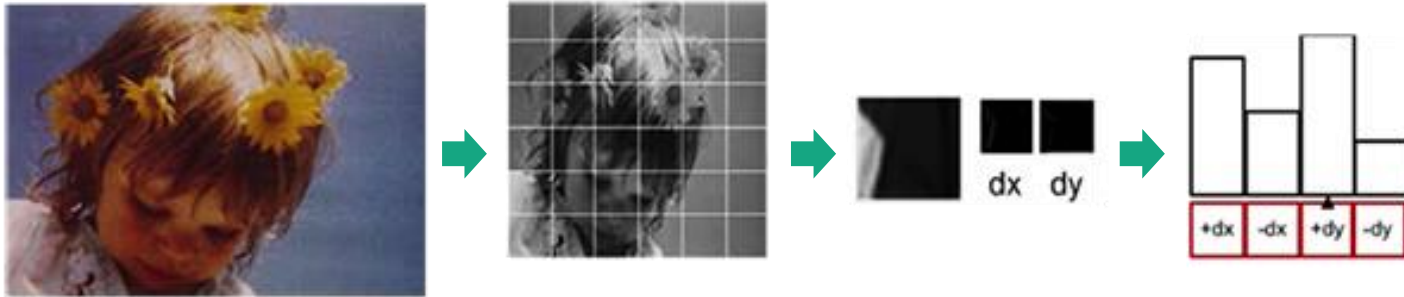
*Install all security updates; turn on Defender and Security Essentials*

*Report suspicious activity through Microsoft Malware Protection Center*



# PhotoDNA

Putting a digital fingerprint on child abuse content



## PhotoDNA in action

Creates signatures of the worst known child abuse images

Can locate these images among the millions online

Shared with law enforcement to accelerate prosecution

Also used by Facebook, Google, and Twitter and others

