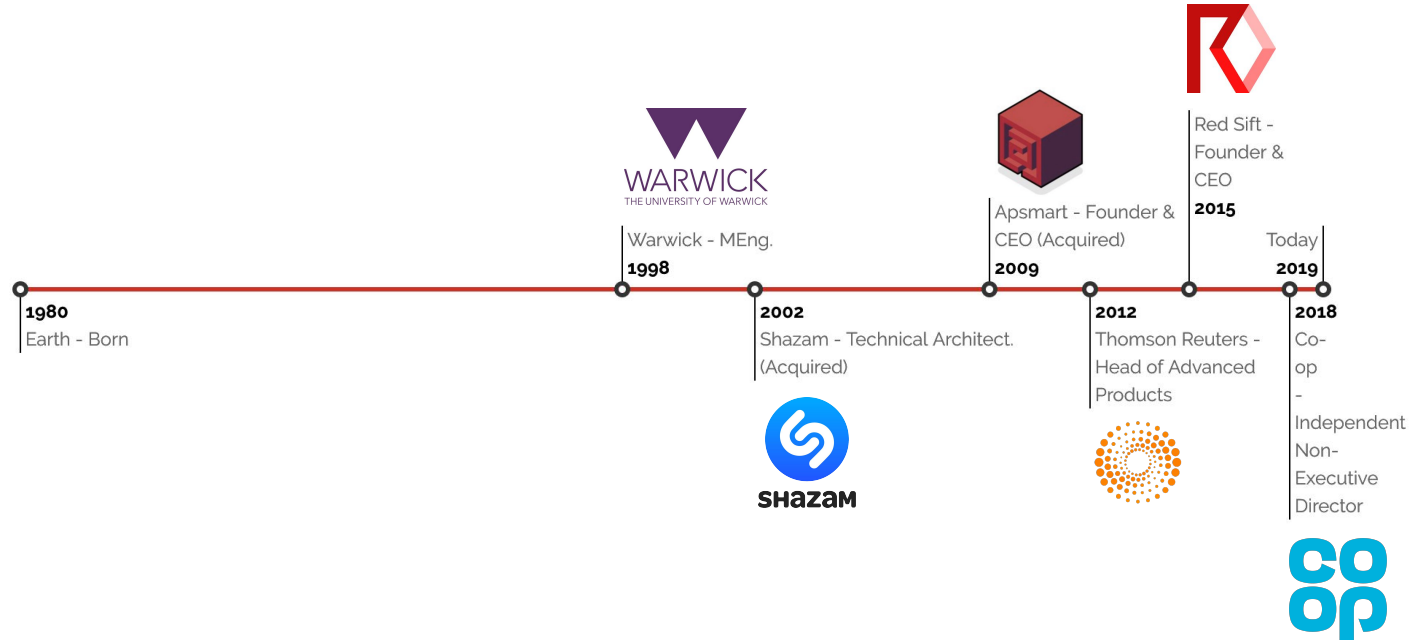


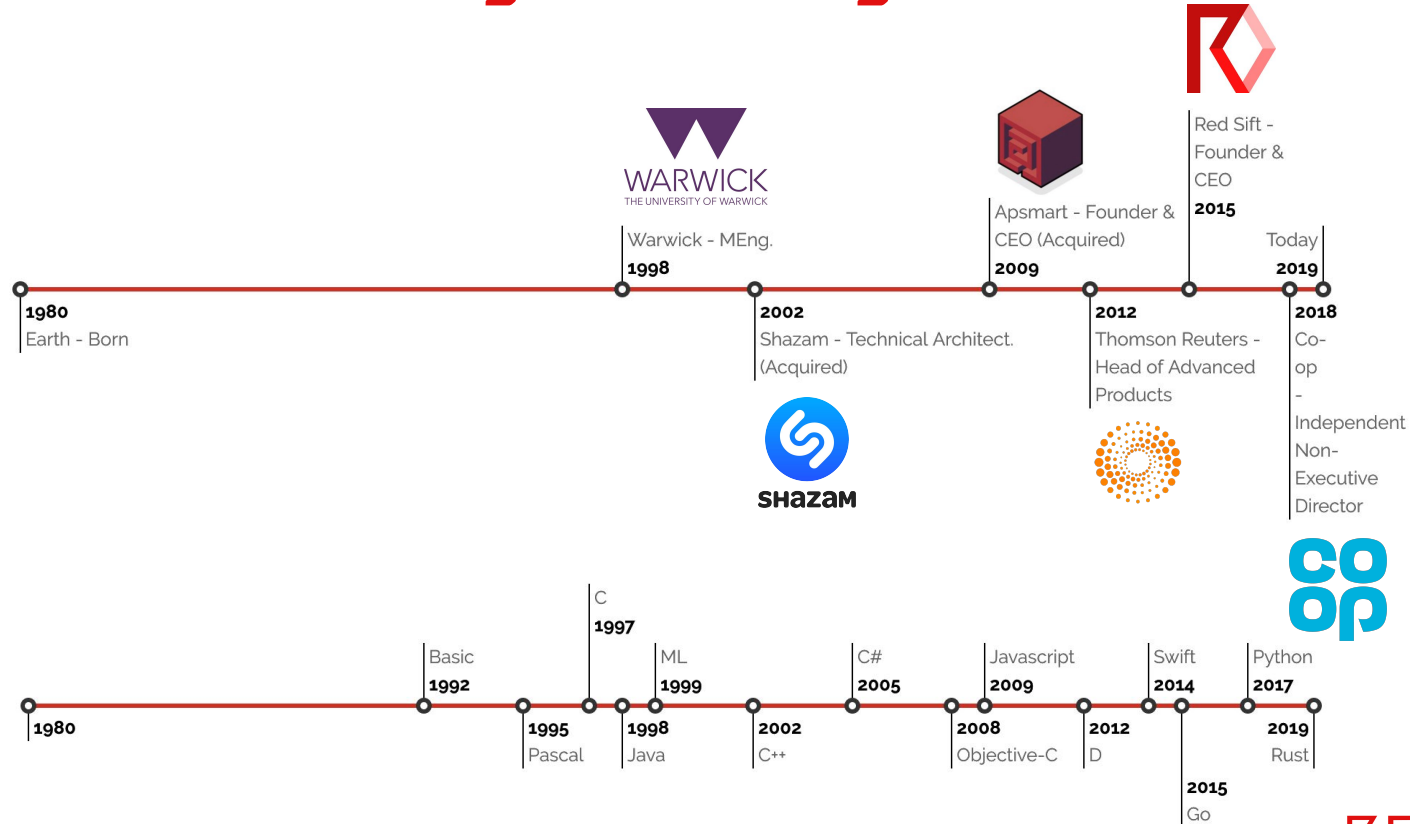
Cybersecurity: From State Actors to Bedroom Hackers

BCS, May '19

Rahul



A history of making software



The cognitive security platform

We exist to democratise the technology essential for cybersecurity.

What makes us different?



Computers

not

Consultants



Everyone

not

Exclusive



Platform

not

Point

We help > 200 Organisations

 TransferWise

 **BOWMER
KIRKLAND**

Telefonica

S A D L
E R S W
E L L S

MORTON FRASER 
LAWYERS

 action for
children

 northmill®



RED SIFT-

Cybersecurity: Why now?



“According to the email our cyber experts sent to our teams, they believe a hacker tool Metasploit was used. The automation network and Siemens hardware were attacked and shut down.”*

“After shutting down the network, the attackers played the song *Thunderstruck* by the hard rock band AC/DC at maximum volume.”*



Hacking goes OSS

trustedsec / social-engineer-toolkit

Watch 487 Star 4,375 Fork 1,432

Code Issues 31 Pull requests 0 Projects 0 Wiki Insights

The Social-Engineer Toolkit (SET) repository from TrustedSec - All new versions of SET will be deployed here.



15,685 commits 2 branches 102 releases 47 contributors

Branch: master New pull request Create new file Upload files Find File Clone or download

David Kennedy Merge branch 'master' of https://github.com/trustedsec/social-engine... Latest commit 0018154 22 days ago

.github	Add issue template and update gitignore	2 years ago
modules	Normalize user config path usage with string append and os.path.join().	a year ago
readme	fix credential harvester issue when importing index.html	22 days ago
src	fix credential harvester issue when importing index.html	22 days ago
.gitignore	there is no need for django and flask stuff	2 years ago
README.md	Merge branch 'master' into master	a month ago
requirements.txt	remove old code, bump version to 8	3 months ago
seautomate	fix issue with wget not installed and fallback to urllib or urllib2	3 years ago
seproxy	Normalize user config path usage with string append and os.path.join().	a year ago
setoolkit	fix sudo check	3 months ago
seupdate	Updated {} to {}	3 years ago

README.md

 **The Social-Engineer Toolkit (SET)** 

What do you want to do:

1. E-Mail Attack Single Email Address
2. E-Mail Attack Mass Mailer
3. Return to main menu.

Enter your choice: 1

Do you want to use a predefined template or craft a one time email template.

1. Pre-Defined Template
2. One-Time Use Email Template

Enter your choice: 1

Below is a list of available templates:

- 1: Baby Pics
- 2: Strange Internet usage from your computer
- 3: New Update
- 4: LOL...have to check this out...
- 5: Dan Brown's Angels & Demons
- 6: Computer Issue
- 7: Status Report

Enter the number you want to use: 7

Enter who you want to send email to: davek@fakeaddress.com

What option do you want to use?

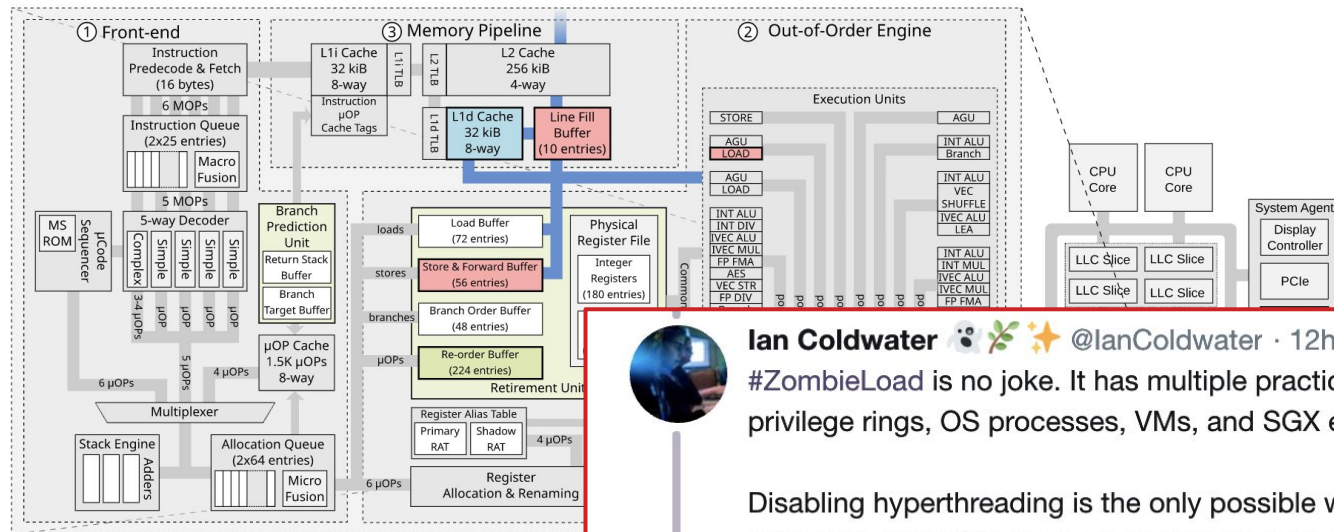
1. Use a GMAIL Account for your email attack.
2. Use your own server or open relay

Enter your choice: 1

Enter your GMAIL email address: davek@fakeaddress.com

Enter your password for gmail (it will not be displayed back to you):

Just scratching the surface



Ian Coldwater 🌱🌟 @IanColdwater · 12h

#ZombieLoad is no joke. It has multiple practical attack scenarios across CPU privilege rings, OS processes, VMs, and SGX enclaves.

Disabling hyperthreading is the only possible workaround to prevent this extremely powerful attack on current processors.



3



39

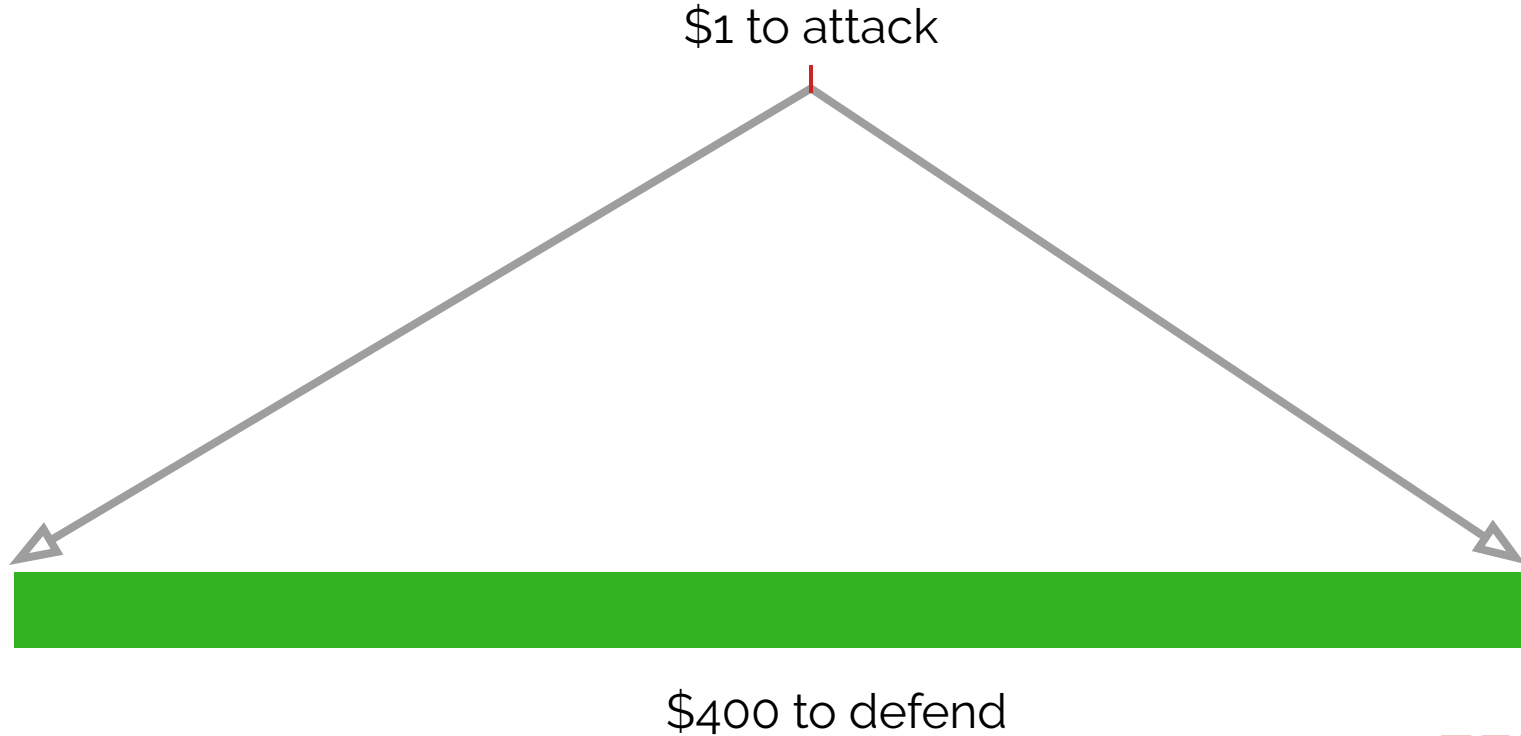


131



The business of security

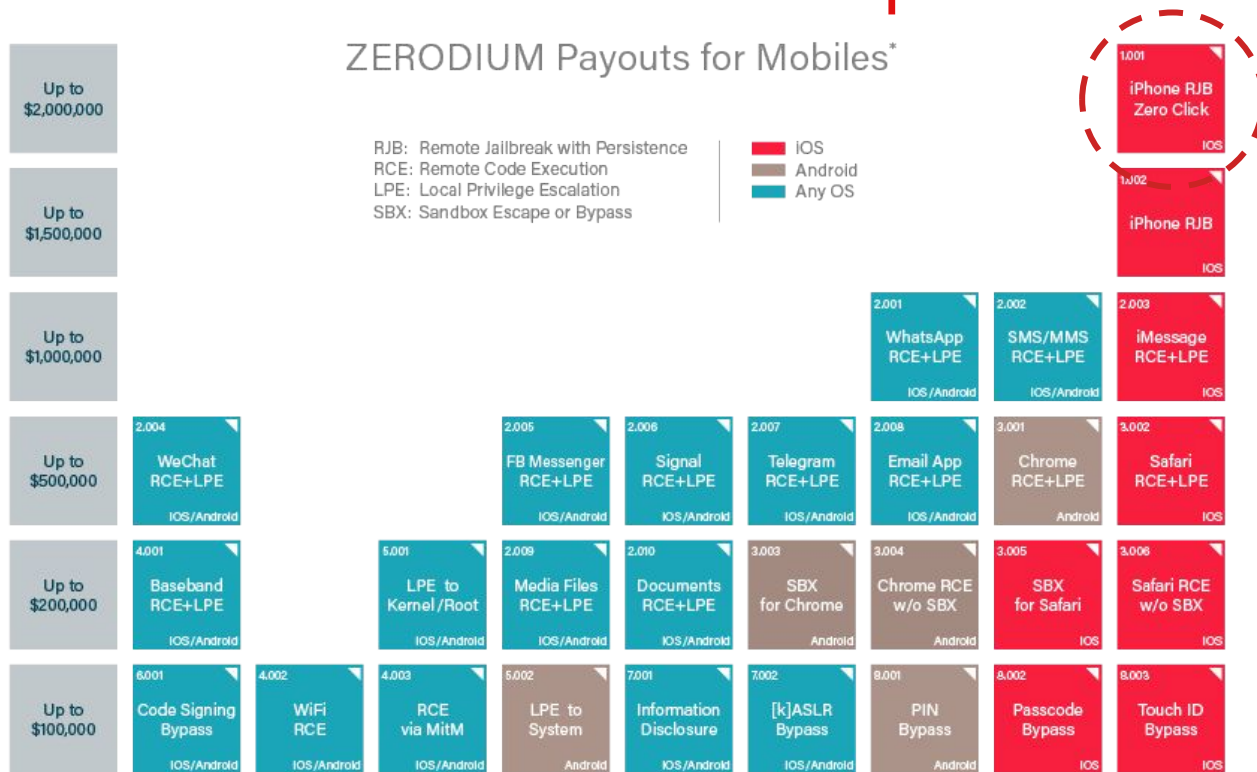
Fundamental Economics



“They were still discussing pricing, when the Saudis said they wanted it immediately,” says the businessman, who estimates the Saudi government paid \$55m for the ability to track 150 targets simultaneously.*



What is a Proof of Concept Worth?



* All payouts are subject to change or cancellation without notice. All trademarks are the property of their respective owners.

2019/01 © zerodium.com

Enterprise is the growing target

Cost of breach to the company


Avg \$3.6 million

IBM estimate, pre GDPR

\$7.3 million in the USA

Not 'mega' breaches

\$141 to \$282 per data record

A large iceberg floats in a deep blue ocean under a clear sky. The visible tip of the iceberg is small and jagged, while the submerged portion is much larger and more complex in shape, illustrating the concept of hidden costs.

The “hidden” costs can amount to 90 percent of the total business impact on an organization, and will most likely be experienced two years or more after the event.*

What Next?



@rahulpowar