Are your company laptops secure?



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Data Theft

VPN Compromise

Account Credential Compromise



About Matta

Security Consultancy since 2001:

- Penetration Testing
- Application Testing
- Code Review
- Binary Evaluation
- Training
- Vulnerability Assessment

Largest Clients:

- Financial
- Retail
- e-Commerce

The Team Today

James Tusini - Technical Director

Nick Baskett - Managing Director



Where we Work

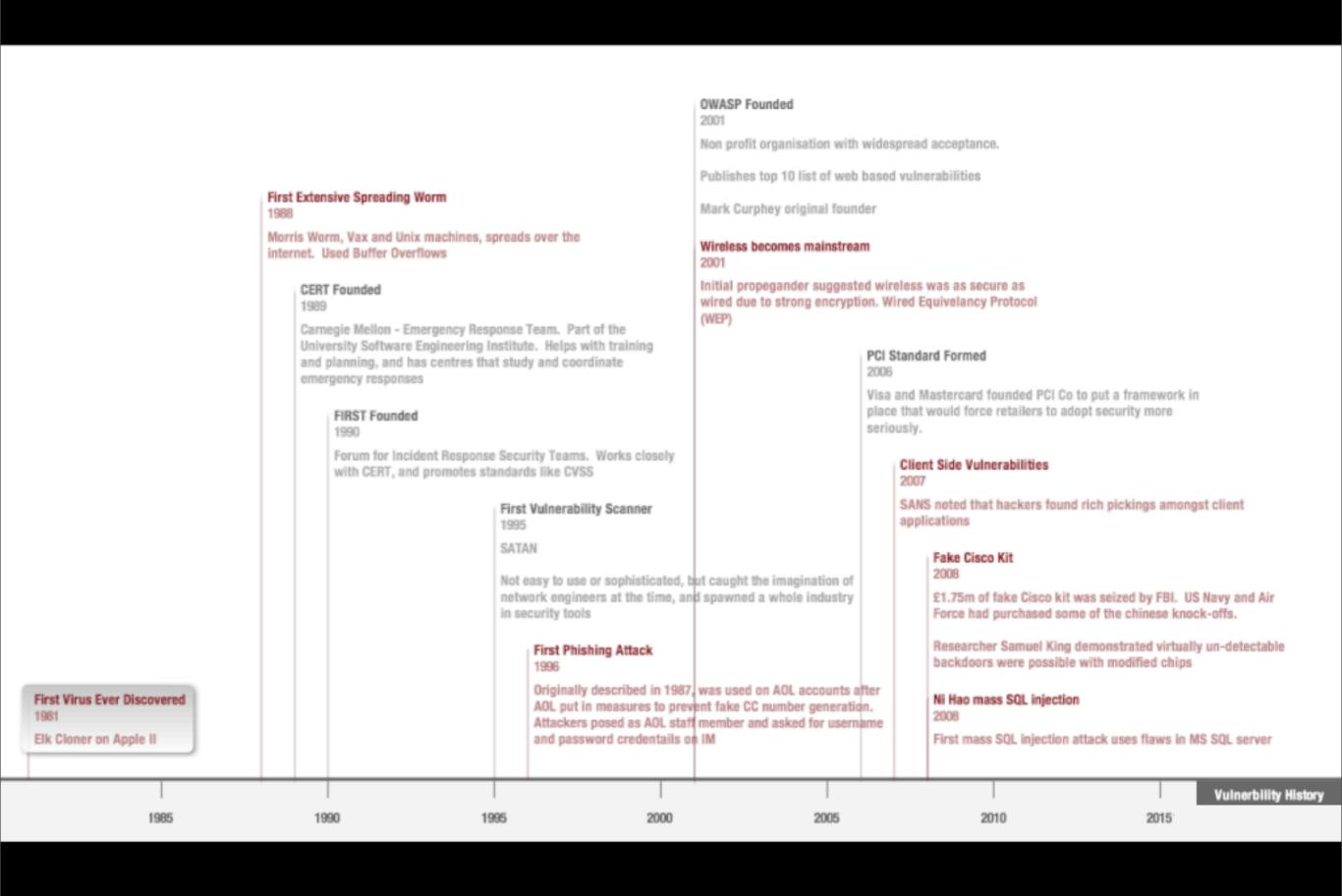
In the last 12 months:

- UK
- Netherlands
- USA
- Singapore
- Hong Kong
- China
- India
- Saudi Arabia

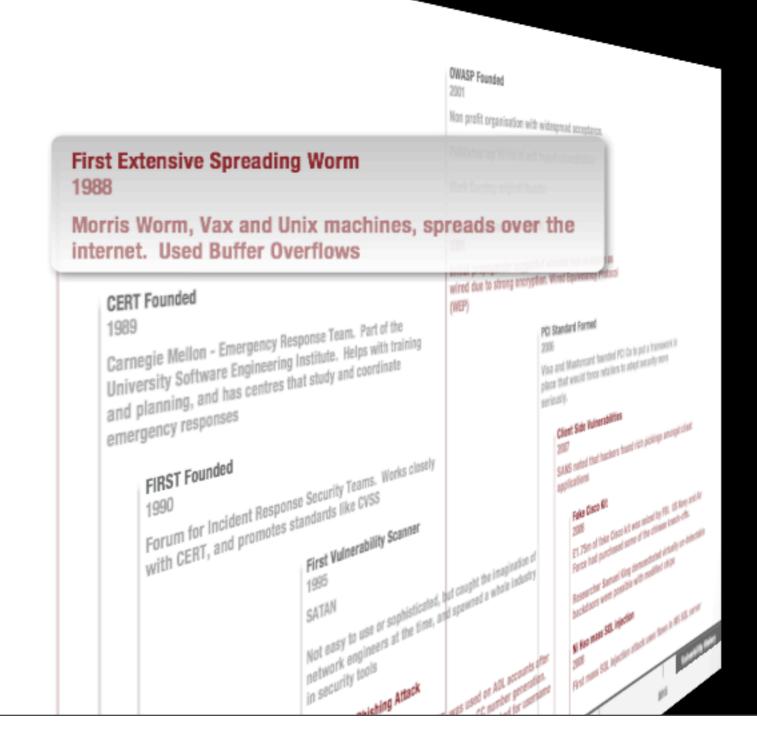


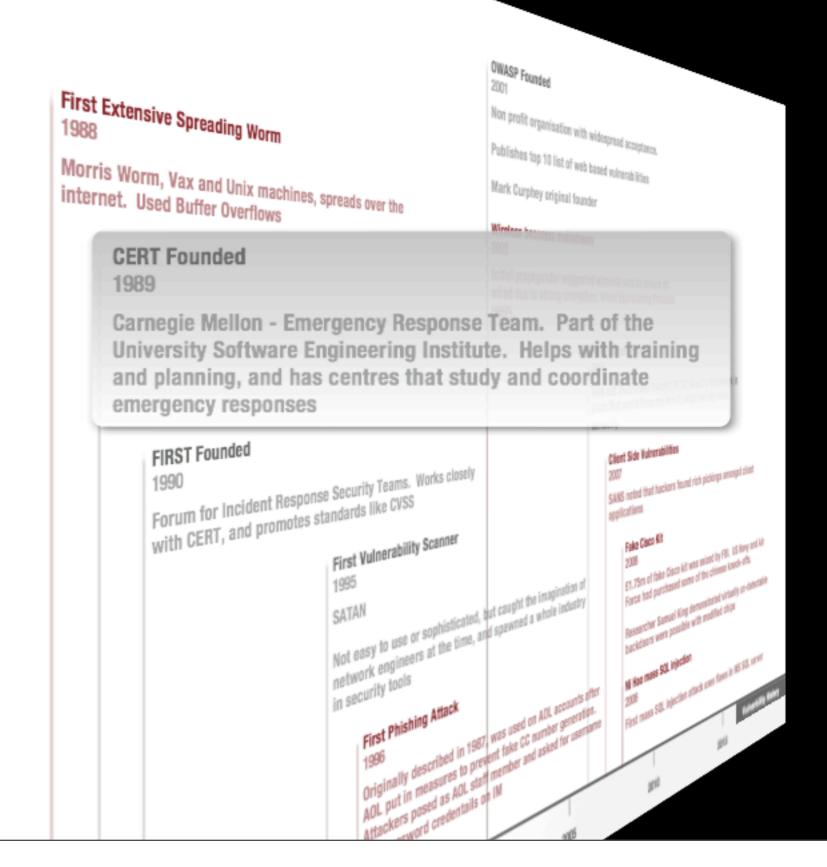




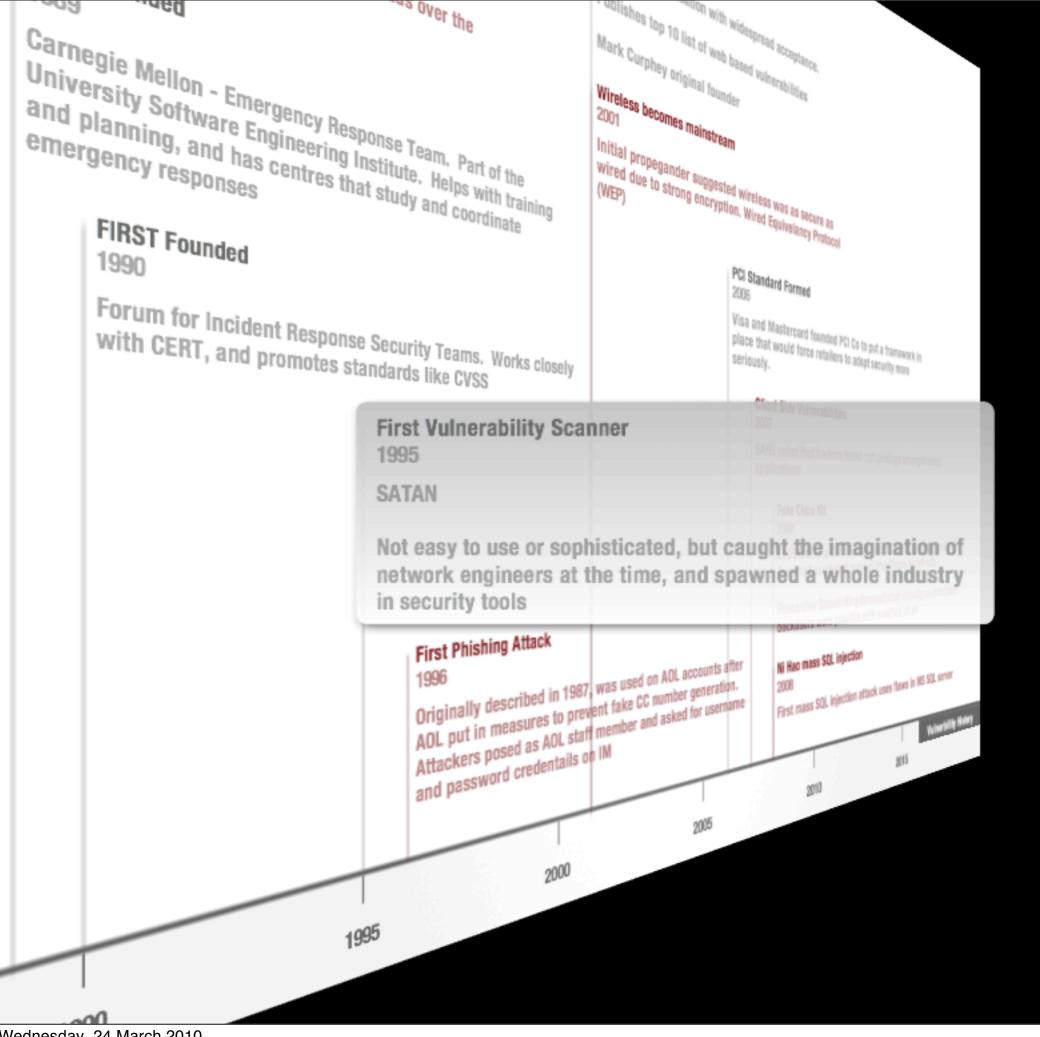


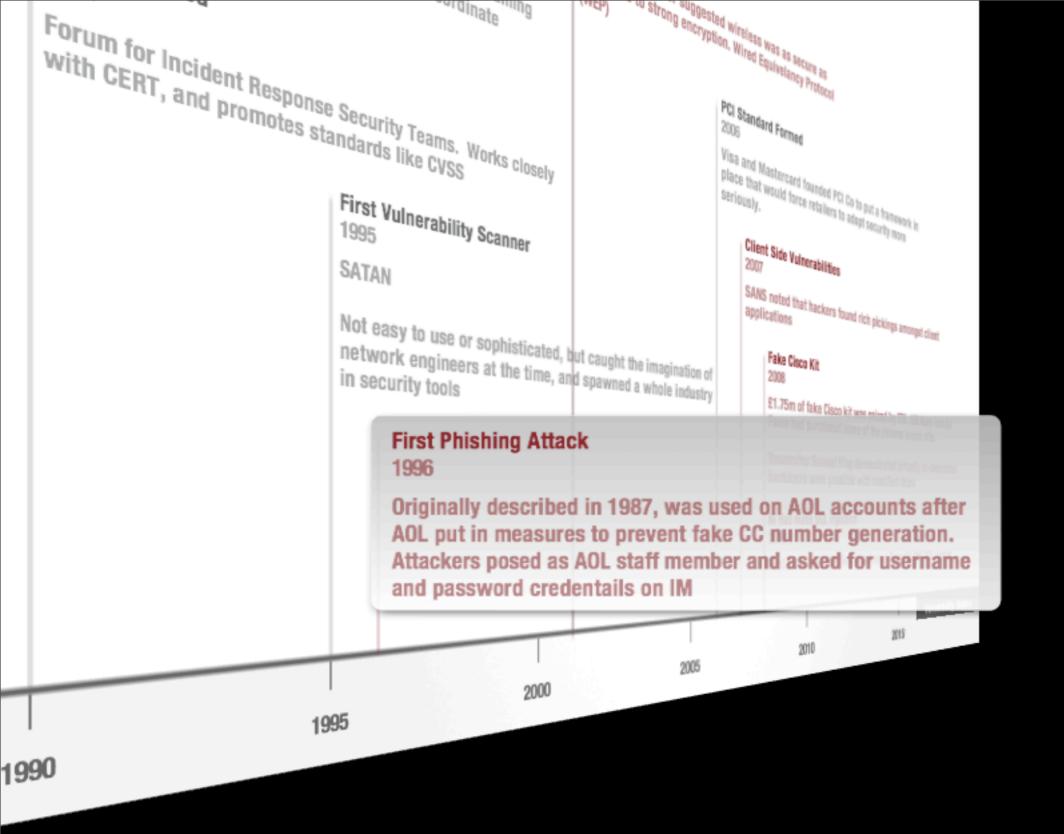












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OWASP Founded

2001

Non profit organisation with widespread acceptance.

Publishes top 10 list of web based vulnerabilities

Mark Curphey original founder

Wireless becomes mainstream

Initial propegander suggested wireless was as secure as wired due to strong encryption. Wired Equivelancy Protocol (WEP)

PCI Standard Formed Visa and Mastercard founded PCI Co to put a framework in place that would force retailers to adopt security note SANS noted that hackers found rich pickings amongst client seriously. es kill mass spirred by FBL. It's havy and his at the chiracte knock offs. applications Fake Cisco Kit

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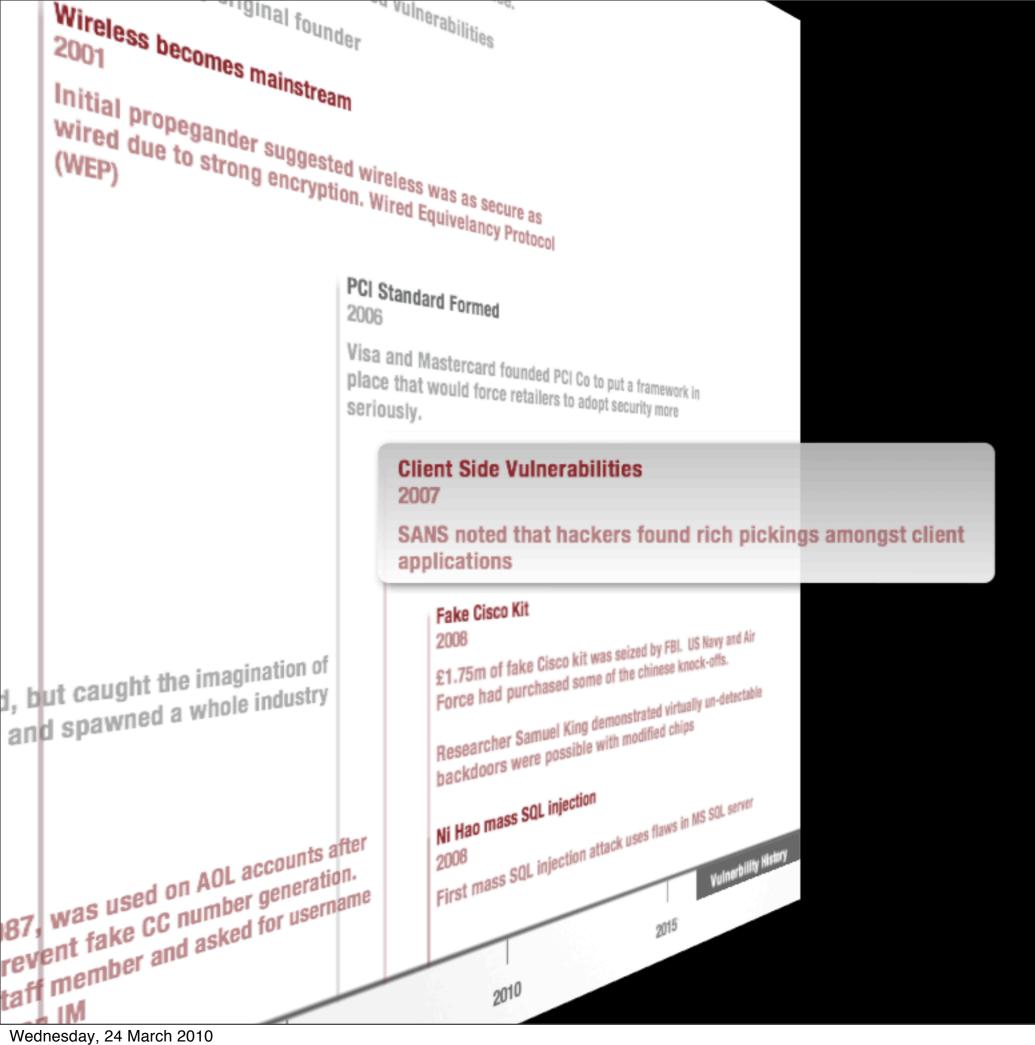
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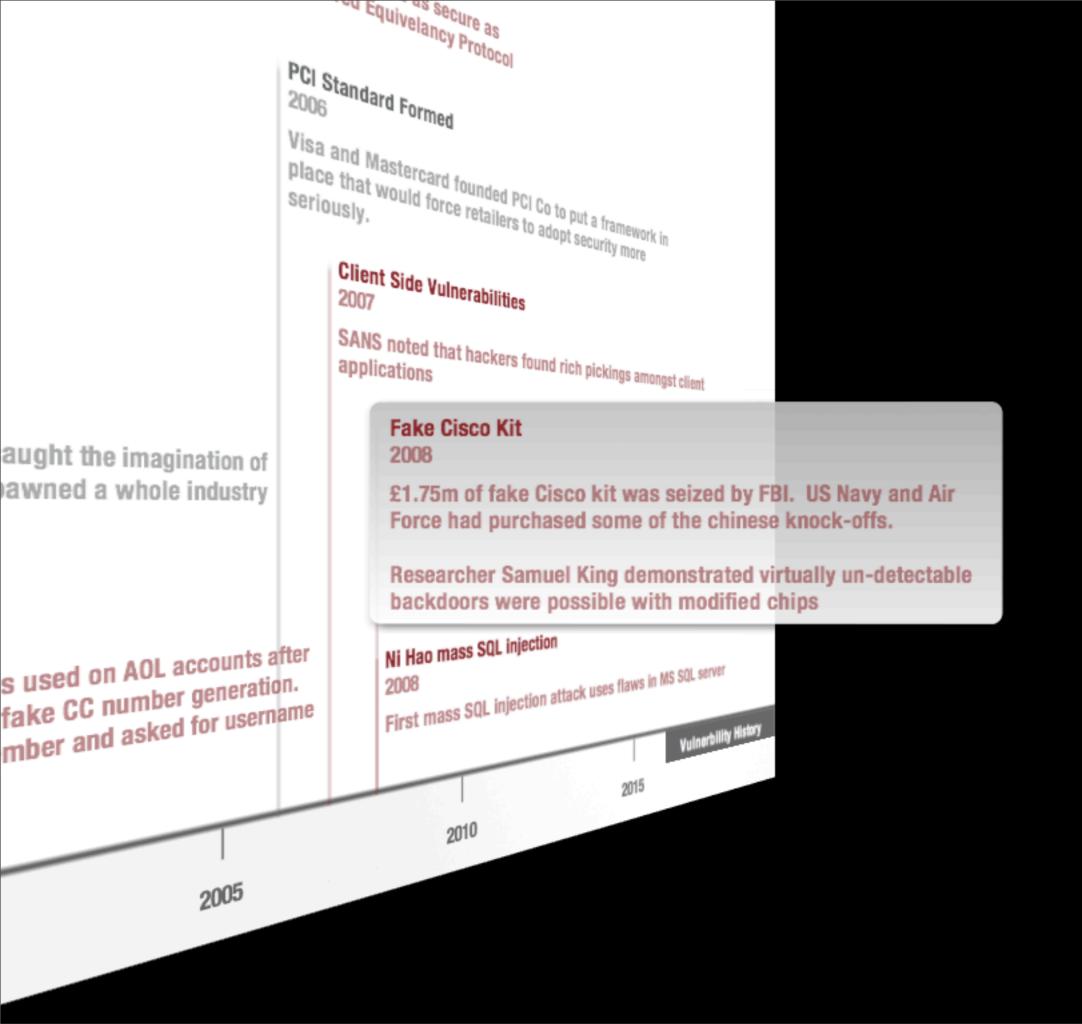
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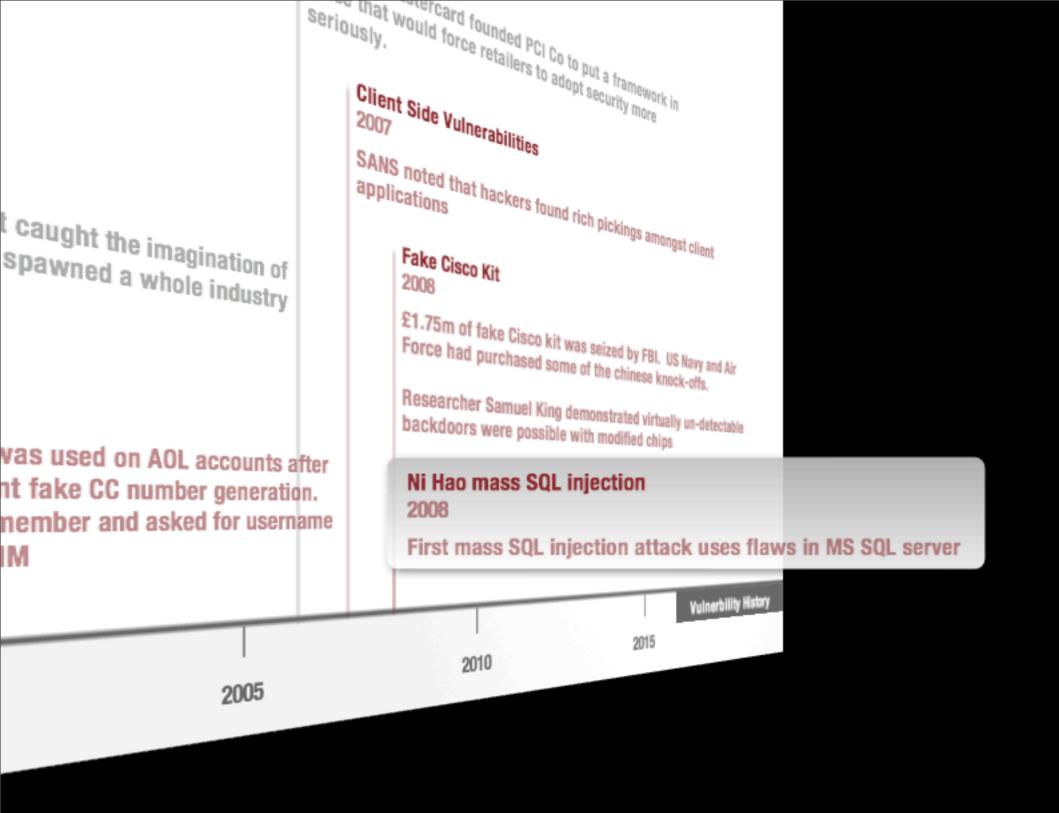
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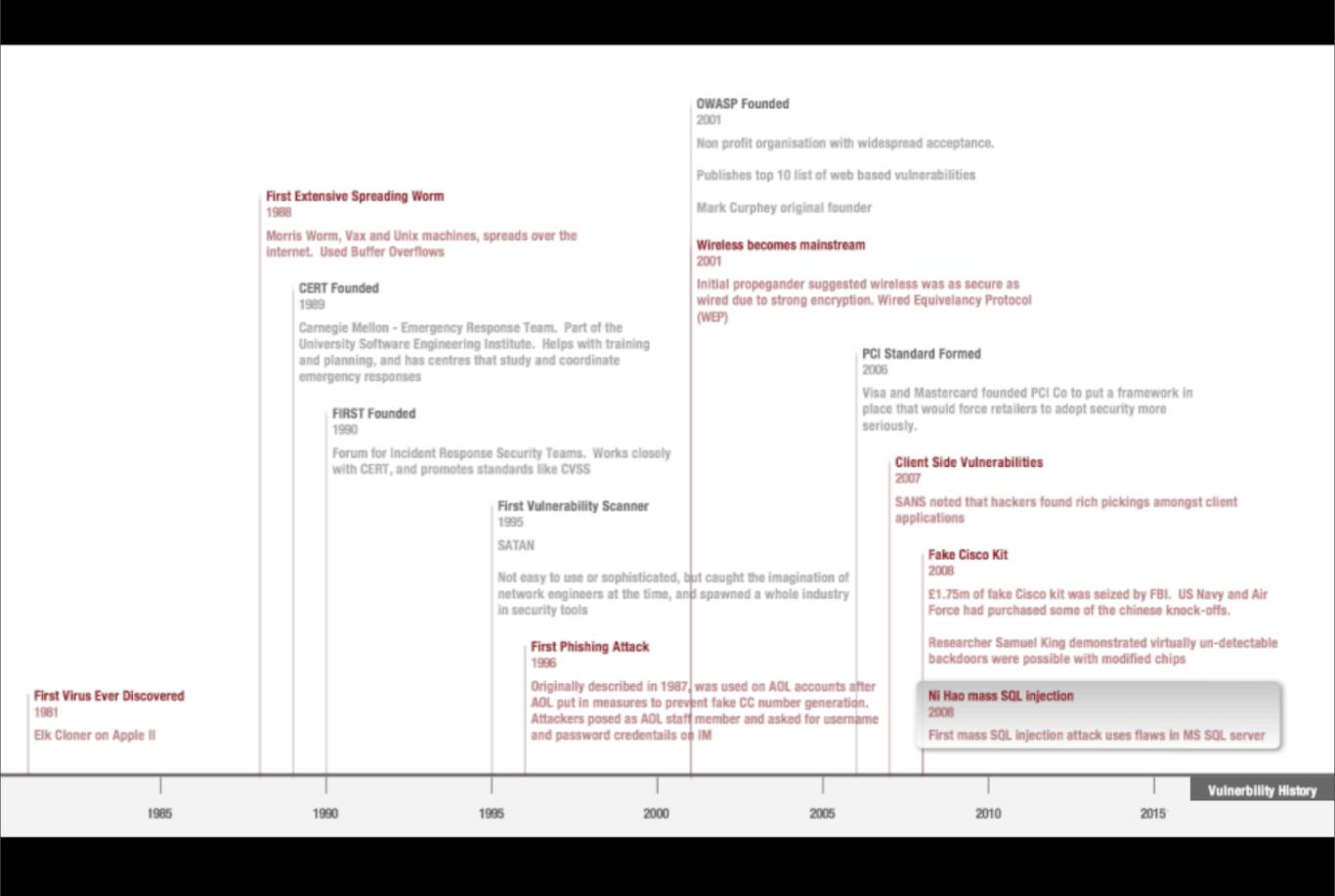
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Wednesday, 24 March 2010









20 Years on...

Attackers still find new ways, and interesting new methods on old ways to compromise systems



Client Side Exploitation

Why attackers have been focusing on Clients



Why?

- Very few internet-facing services nowadays
- Enterprise OS's are getting more secure
- Webapps are still vulnerable but frameworks are providing some security
- More stealthy who cares if a user's machine crashes?
- Easier to find vulnerabilities in client-side software



What?

- XSS Malicious HTML / Javascript in injected on the clients' browsers
- Memory corruption vulnerabilities in client-applications (Browsers + plugins and commonly used third party software)
- Network foo Intercepting traffic in various ways (ARP / DNS / DHCP Spoofing, MiTM, TCP Session Hijacking, etc.)



How?

- Social Engineering click on this link / open this file
- Running a rogue network? Rogue AP?
- Polluting online sites with malware



Rogue AP

- Essentially an Access Point in promiscuous mode
- Personally tested in various locations. On plane, within seconds 30+ connections. Customer sites, many associations within seconds.
- Big problem because it's hard to detect, even for a savvy guy with security expertise



How does it work?

- Attacker sets up Powerful Wireless Card in Master mode (Acting as an Access Point in promiscuous mode)
- Clients probe their favorite networks on a regular basis, we respond to all requests (linksys, NETGEAR, BT_Openzone, etc.)
- Associated already? no problem send DEAUTH

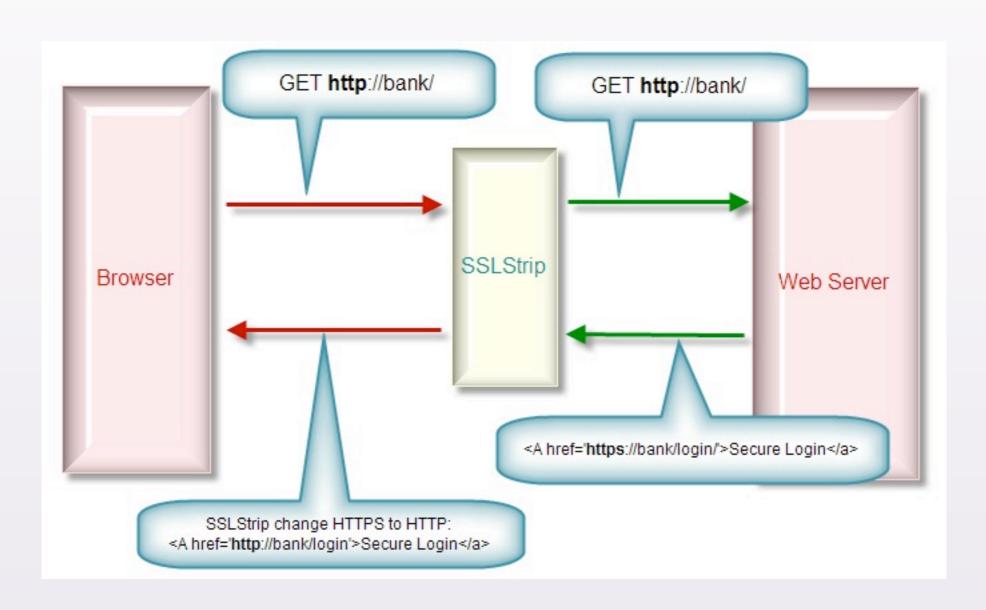


What can we do?

- Everything!
- We control DNS
- We route your traffic modify / inject packets
- MiTM SSL or better strip it
- Poison your cache with malicious JS
- Are your updates secure? I think not



SSLStrip







matta