Advanced Security Tips for End Users

Today's Agenda

A Deeper Dive

- Do not click on suspicious links
- Use a secure password
- Use an antivirus
- Never bank from an untrusted network

Do not click on suspicious links

How do I know where the URL is taking me?

How can I tell if a website is not malicious?

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Where is this taking me?

http://www.diinnovationconference.com/

http://63.172.234.25

http://0x3FACEA19

http://1068296729

http://077.0254.0352.031

http://goo.gl/jeSA3x

http://bit.ly/1tDt0LB

http://tinyurl.com/jvuhogy

http://www.google.com/search?hl=en&q=Digital+Insight+Innovation+Conference&btnI=

http://d%49%49%6E%6E%6Fvat%49%6F%6E%63%6F%6Efere%6E%63e.%63%6Fm/

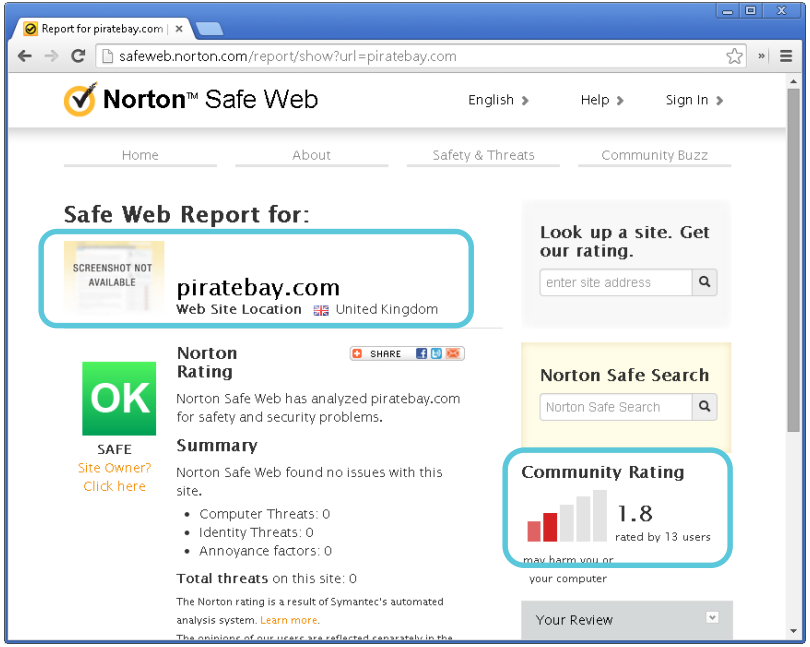
How do I know where the URL is taking me?

http://longurl.org/

How can I tell if a website is not malicious?

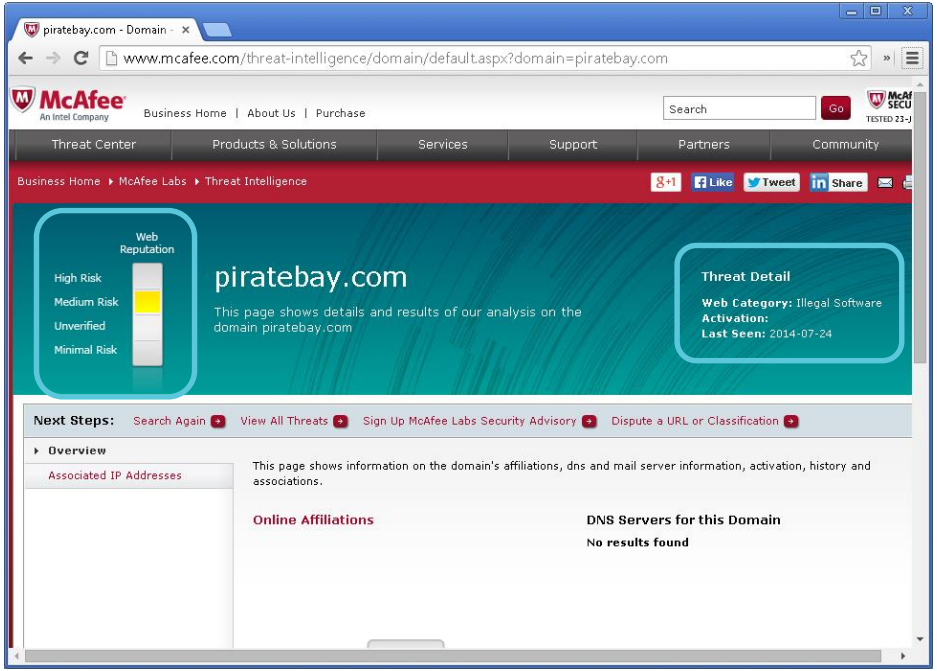
Norton Safeweb

https://safeweb.norton.com/



McAfee Threat Intelligence

http://www.trustedsource.org/



Use a secure password

How secure is my password?

Have I been affected by a breach?

How can I keep my password safe?

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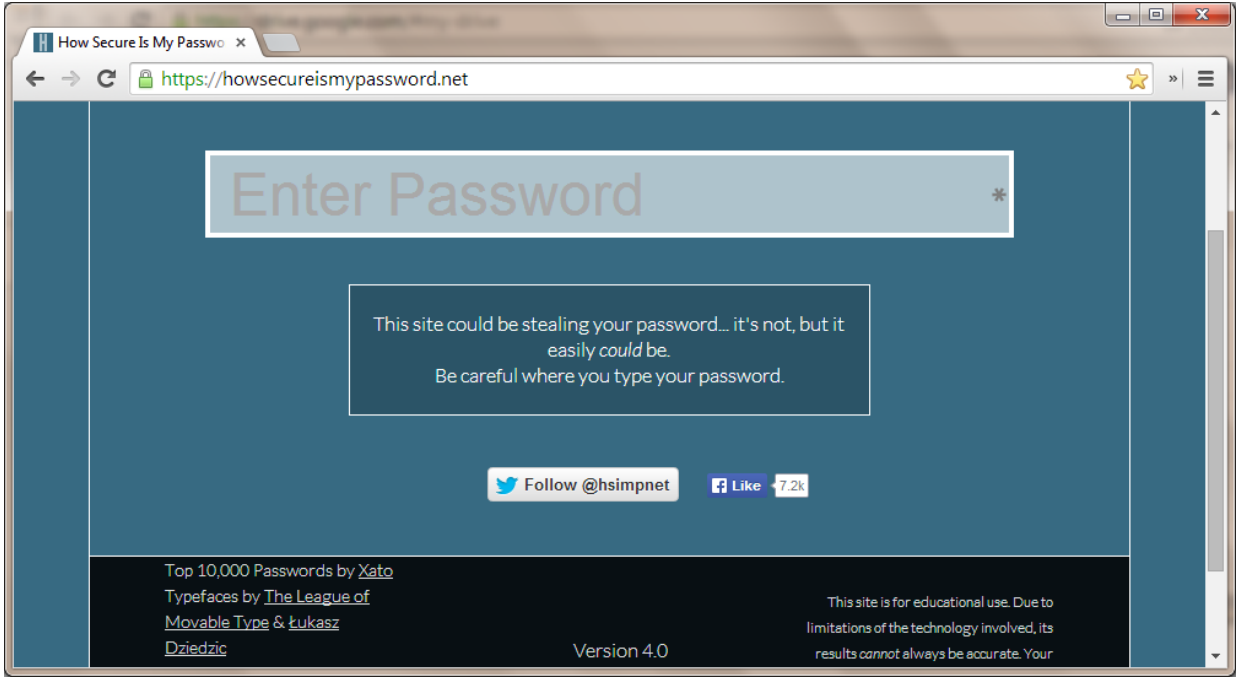
Adopt MFA!

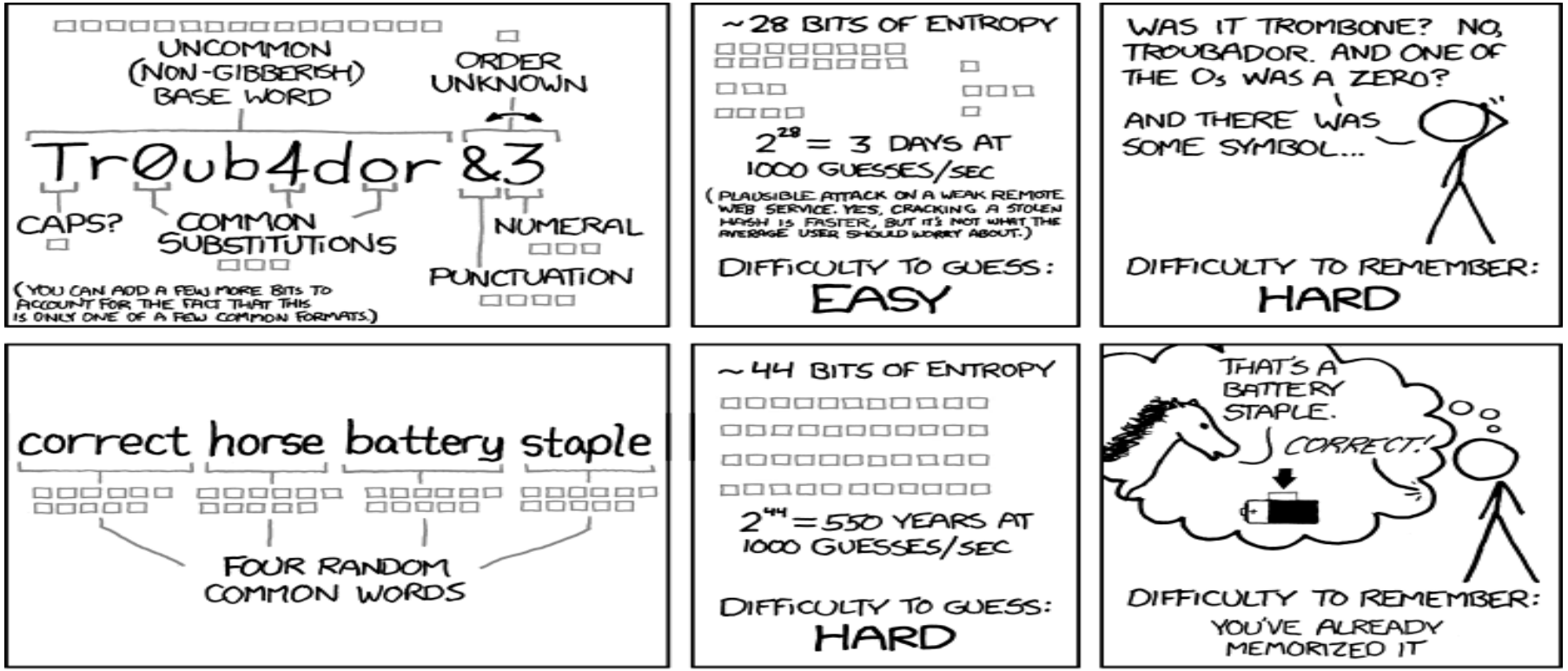
- Google
- Facebook
- LinkedIn
- …

How secure is my password?

https://howsecureismypassword.net/

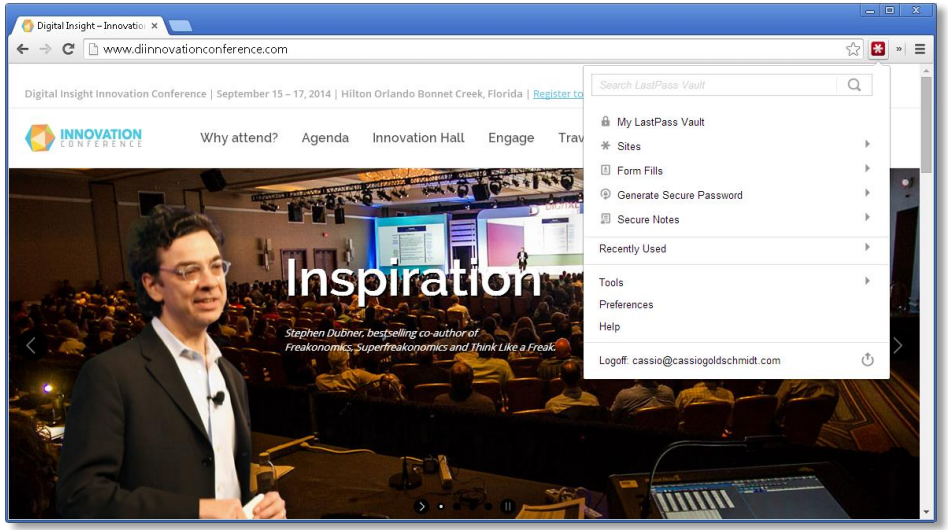


Complex vs. Long Passwords?



How to keep up with a different password for every site?

- lastpass.com, password safe



Consider getting your own domain!

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Should we Autofill?

Browser-based:

Chrome 34

Firefox 29

Safari 7.0

IE 11

Android Browser 4.3

Third-party:

1Password 4.5

LastPass 2.0

KeePass 2.24

Keeper 7.5

Norton IdentitySafe 2014

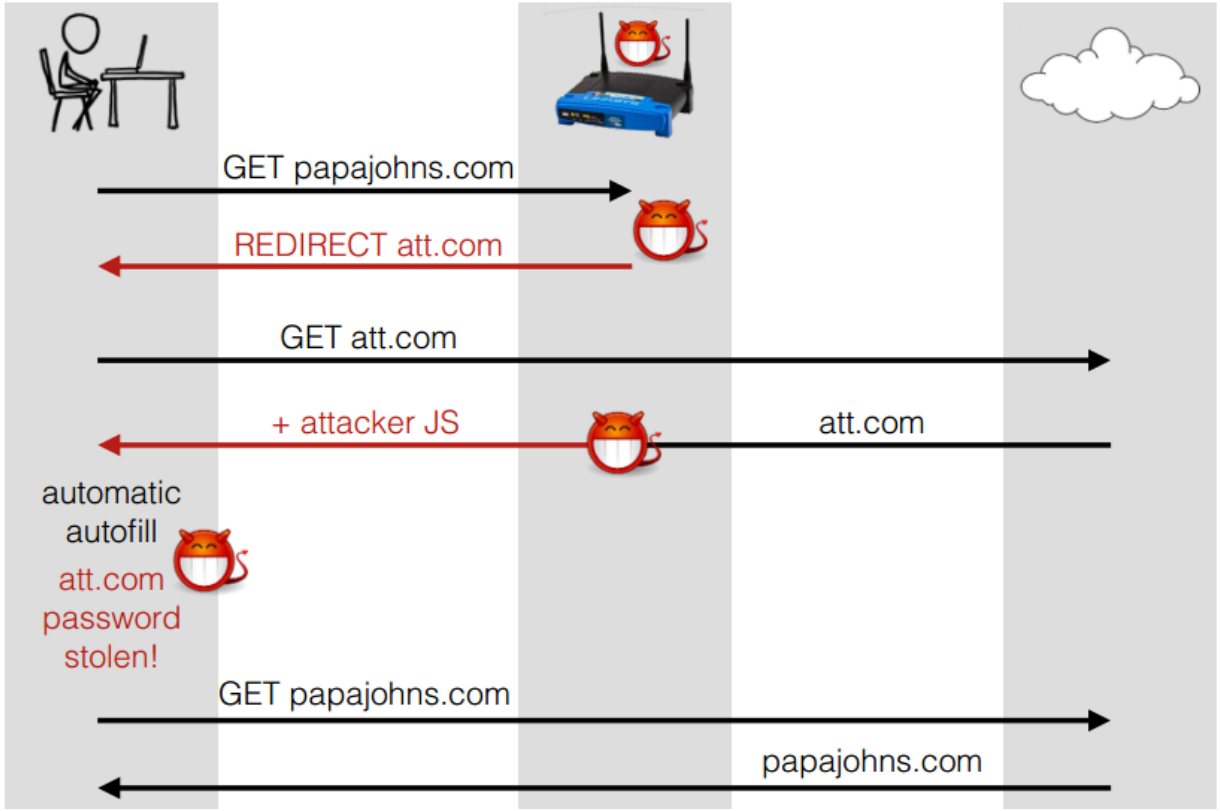
Credits: David Silver, Suman Jana, and Dan Boneh, *Stanford University;* Eric Chen and Collin Jackson, *Carnegie Mellon University*

Attacks against autofill?

- Dynamically change *“form action” tag* using JavaScript
- DNS trickery (change IP, maintain DNS name)
- Redirect sweep attack on HTTP Login Page (Aug 22 2014).

Credits: David Silver, Suman Jana, and Dan Boneh, *Stanford University;* Eric Chen and Collin Jackson, *Carnegie Mellon University*

Redirect Sweep Attack on HTTP Login Page



Credits: David Silver, Suman Jana, and Dan Boneh, *Stanford University;* Eric Chen and Collin Jackson, *Carnegie Mellon University*

Disable Autofill…

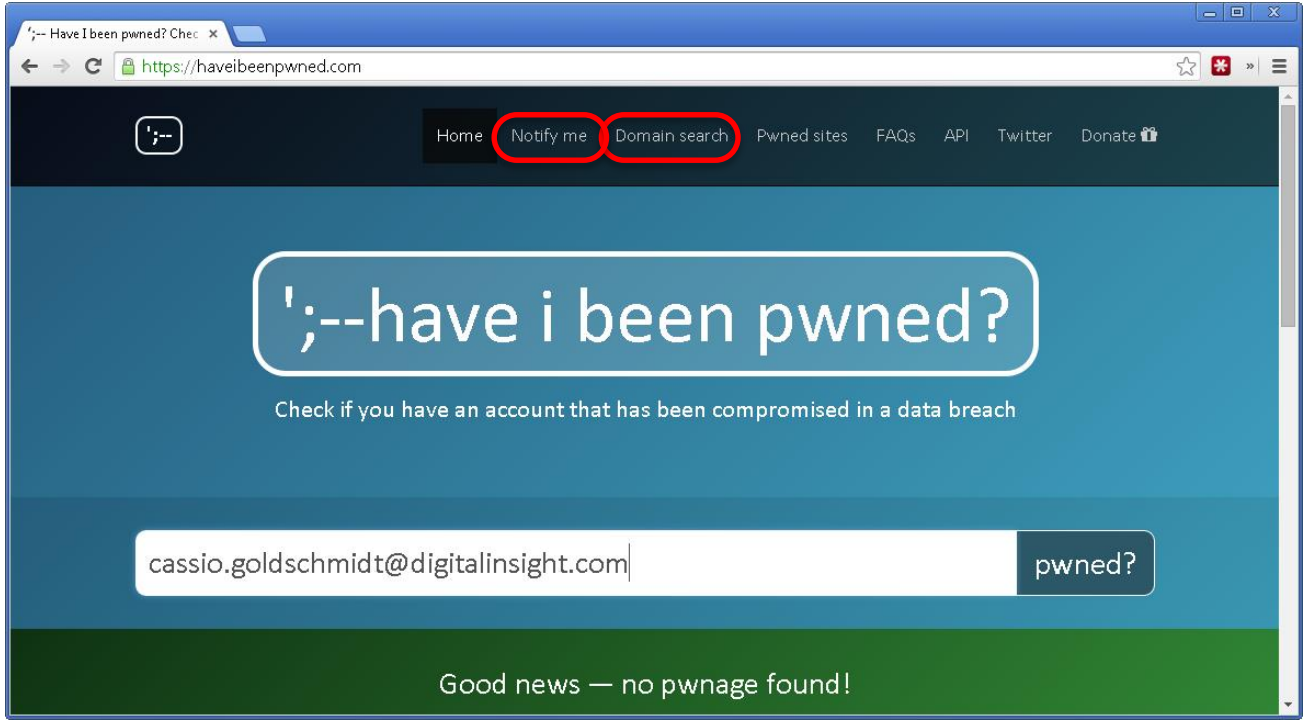
Vulnerable

Not Vulnerable

Credits: David Silver, Suman Jana, and Dan Boneh, *Stanford University;* Eric Chen and Collin Jackson, *Carnegie Mellon University*

How to find out if my password or my user's accounts have been breached?

https://haveibeenpwned.com



How to I know my AV is working?

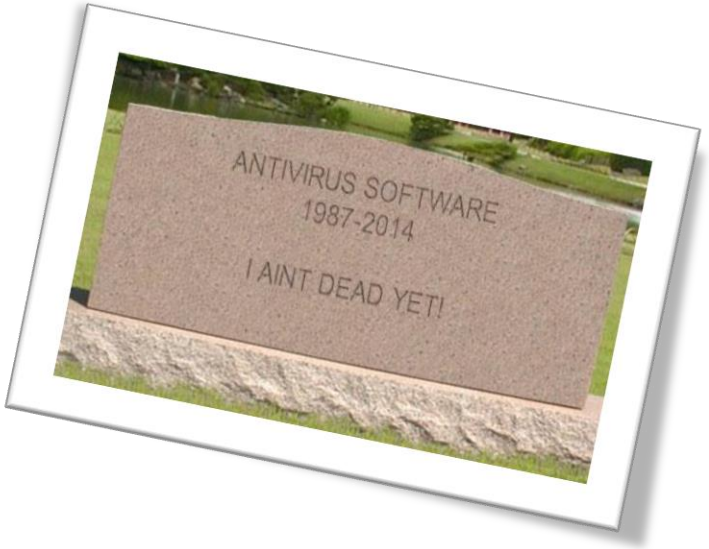
Use an Antivirus

Do I still need AV?

The AV says the file is okay… Can I get a “second opinion”?

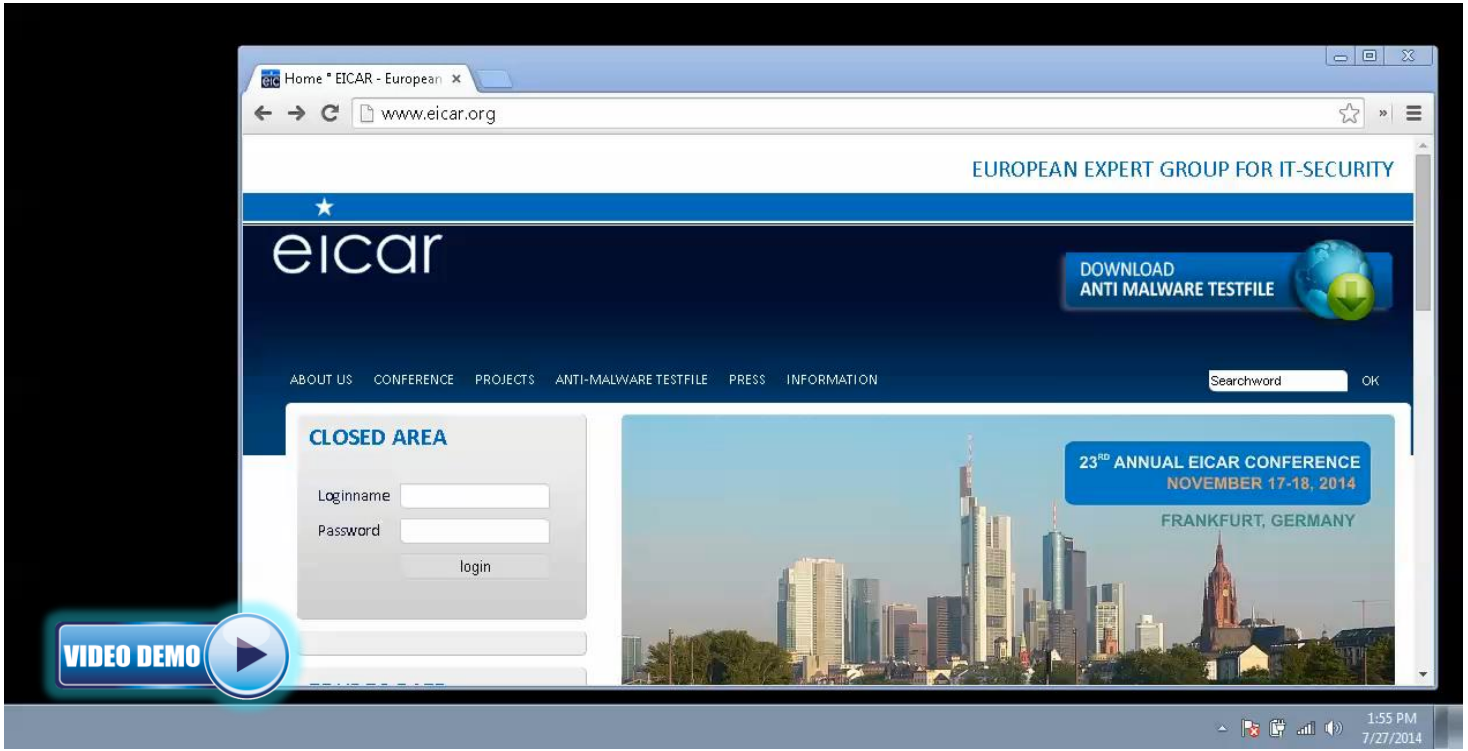
Is Antivirus still relevant?

- **Traditional AV is not enough**
- Firewall
- Digital identity safeguard
- Prevents unauthorized access to webcam
- Alerts dangerous public WiFi networks
- Parental control
- Vulnerability scanner
- System hardening
- Download intelligence
- Behavior blocking
- Email, IM scan
- System optimization



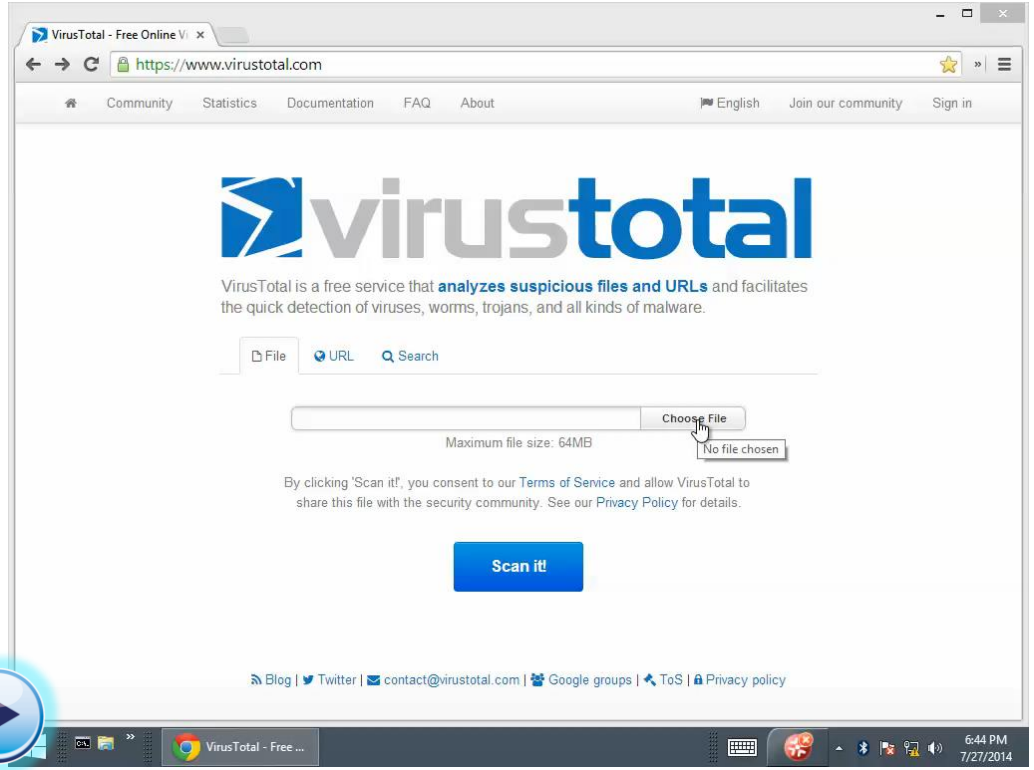
How do I know my AV is working?

http://www.eicar.org/85-0-Download.html



What's the most comprehensive way to scan a file?

https://www.virustotal.com



Never bank from an untrusted network

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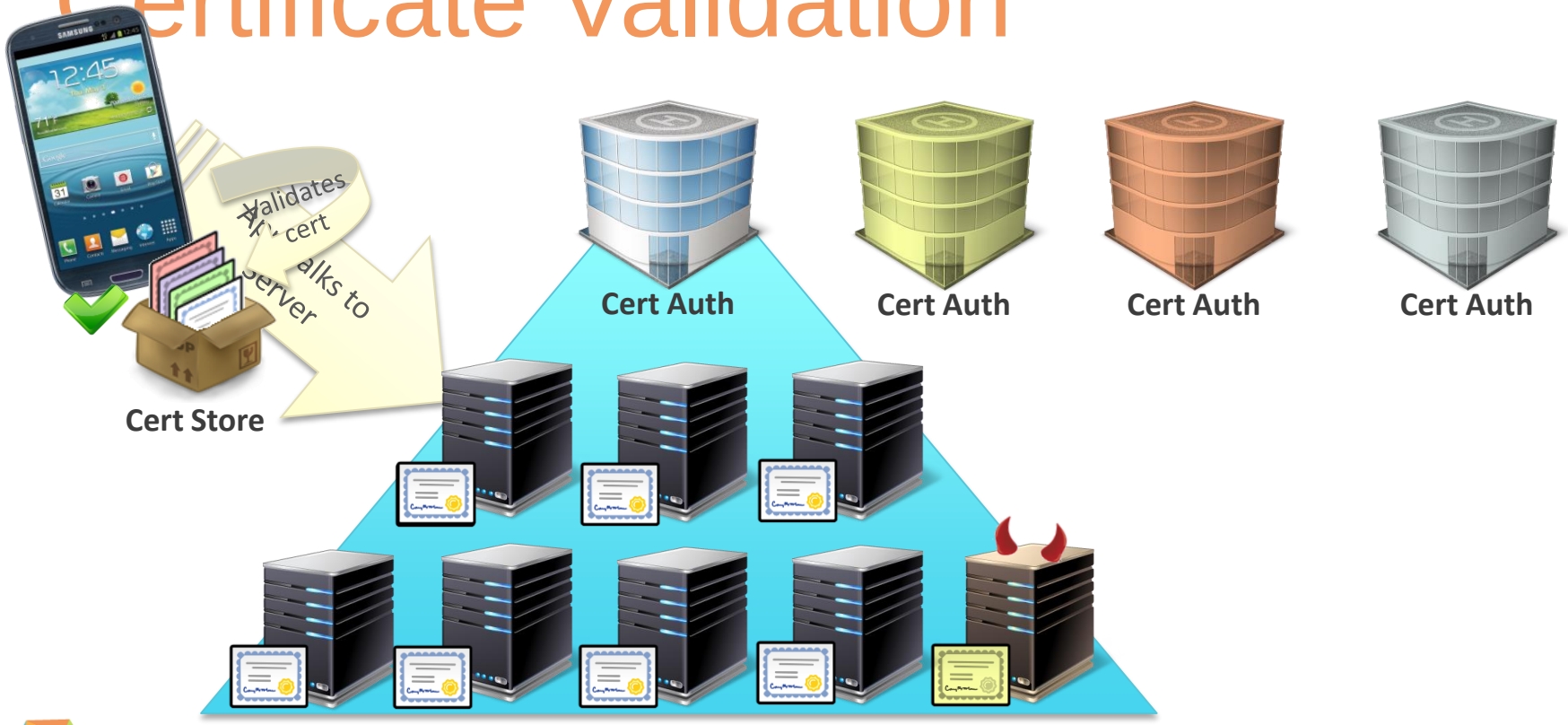
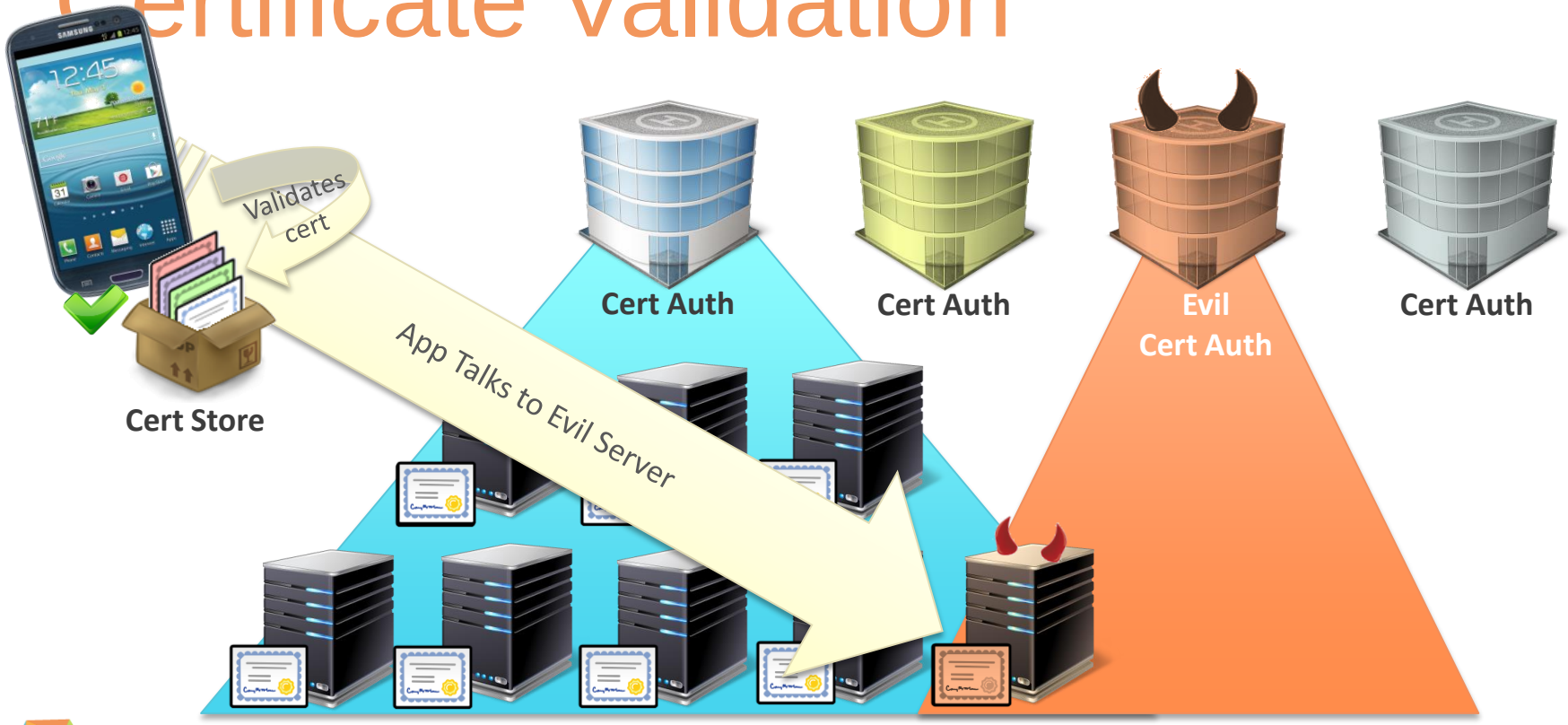
How do I defend against zero day attacks?

- A lot of the vulnerabilities are based on the same types weaknesses.
- Microsoft EMET can mitigate some vulnerabilities before patches are out!

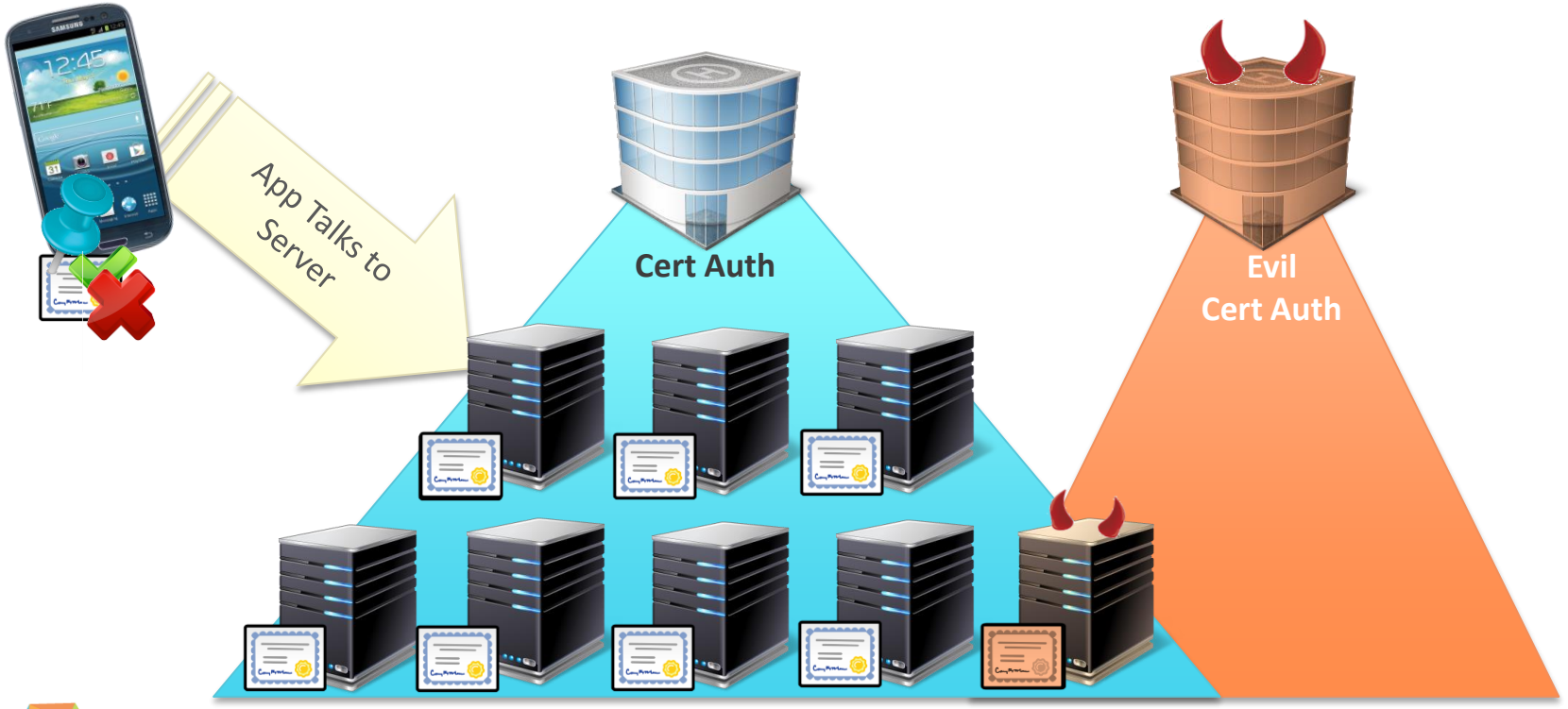
Certificate Validation



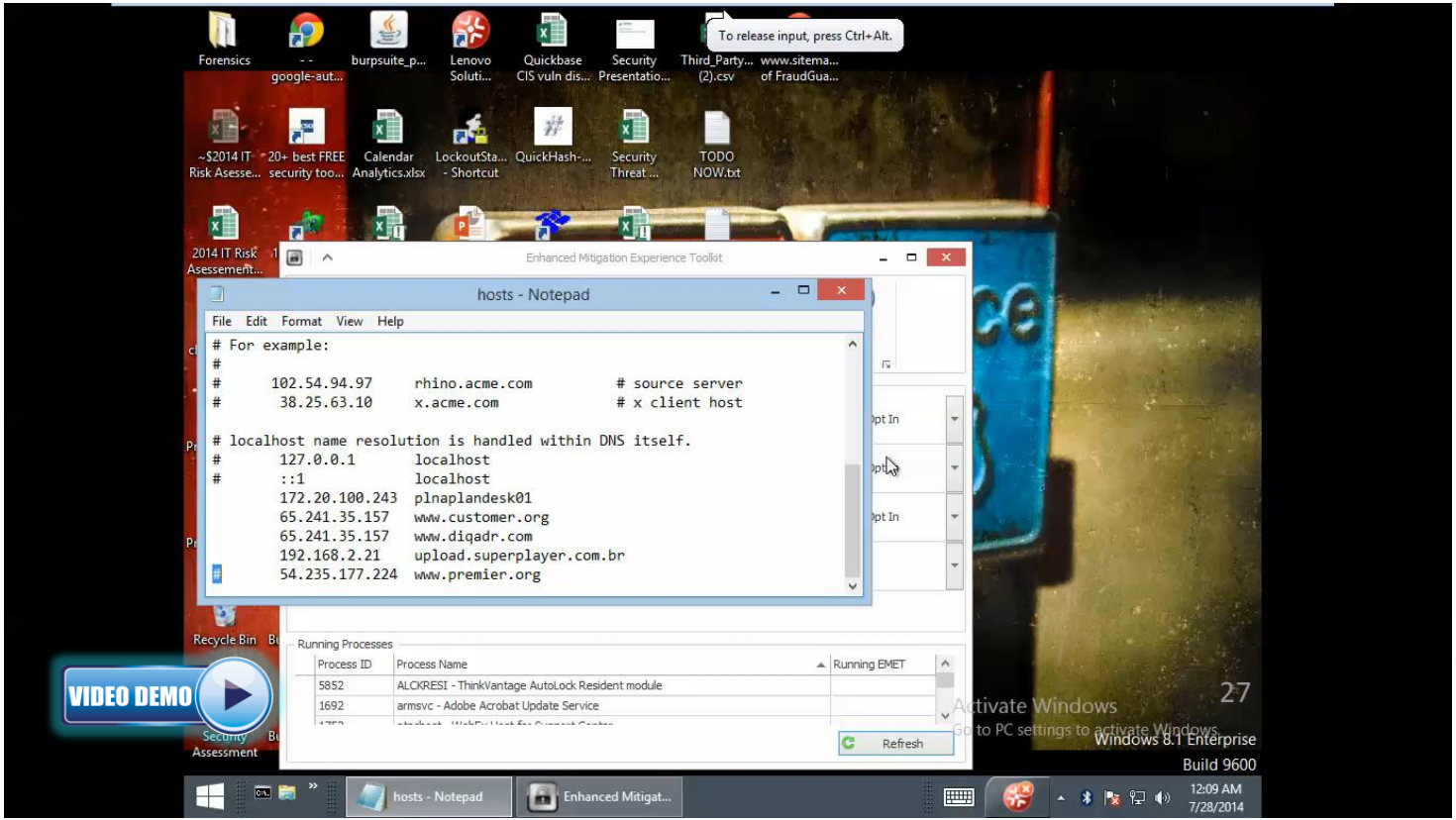
Certificate Validation



Pinning – How does it work?



Pinning for end users - EMET



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Thank You!