

Computer Security and Awareness

Staying safe online
and at work

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Computer Security Awareness

What we're going to cover today

- Viruses aren't like they used to be
- A demonstration
- Why you are a target
- Our role in keeping you safe
- Your role in keeping you safer

Viruses aren't like they used to be

Every Single Day

- 350,000 unique pieces of malware are detected
- 30,000 unique websites are infected
- Most of those 30,000 websites are “legitimate” in nature.
- Cybercrime is now commercialised
- Writing viruses is a highly lucrative market.
- Hackers are selling software to other hackers
- Almost anyone can be a hacker now (there's a kit)

A demonstration

- P@ssw0rd! • 217E50203A5ABA59CEFA863C724BF61B
- Secret_123 • 63647965F13544C6551D5FDB7FFD13E0
- Qw3rty • E1DCF2CACFB7DAB4F7AAB4994E9E418B
- I_Love_You • 16F8522E9FE668626E23F0DCDCB36A99
- 123456 • 32ED87BDB5FDC5E9CBA88547376818D4
- Letmein • 8E7CB9B936BB18D69DF72BB6E1DF1C8E.

How long do you think it would take to crack one of these passwords?

Why you ARE a target

“It won’t happen to me”

“It’s not like the movies, hacking is difficult”

“I don’t have anything they want”

- Bank or credit card details = £££
- Control of your PC = £
- Your identity = £££
- Your website passwords = ££
- Your email address = £
- Research data = £££
- Patient Identifiable Data = ££££££

<http://www.reuters.com/article/us-cybersecurity-hospitals-idUSKCN0HJ21I20140924>

Our role in keeping you safe

Firewalls at the edge of the network

Allows (almost!) everything out but almost nothing in

Logs intrusion attempts, and website access

Notifies us of possible virus or malware infections

Storage systems

Storage which is backed up and routinely scanned for malware

Your data is stored separately from your PC to protect your data in the event that the PC is infected (or something else disastrous happens).

Our role in keeping you safe (continued)

Anti-Virus provided for free to all users

Sophos Enterprise available on our website

Pre-installed as standard on all machines built by us

Updates every 10 minutes around the clock

Full Scan once a week

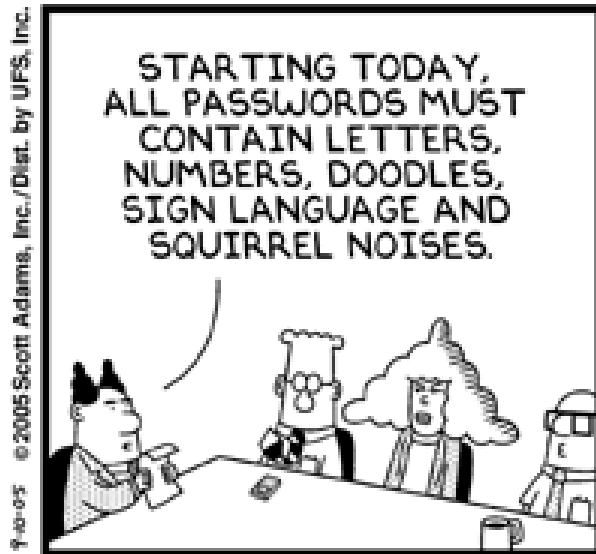
System Updates

We update Windows, Office, and most common applications (including those with security bugs like Adobe Reader and Java)

Our role in keeping you safe (continued)

Password Complexity rules

(Like car insurance, no-one likes it but it's there for a reason)



Your role in keeping you safe

Be smart about what you click on

If you weren't expecting an email, treat it with suspicion

If it contains an attachment, be very careful!

If you get a browser or application popup you weren't expecting, don't click on it

Don't click on adverts, if you like the product in it, search for it

At work, if in doubt, **don't click.**

Your role in keeping you safe (continued)

Can
anyone
spot what's
wrong with
this email?

-----Original Message-----

From: Apple Store Transaction ID #7727 [mailto:applesrv9353@apple-security-warning.com]

Sent: 16 December 2015 13:26

[REDACTED]
Subject: Apple Store Transaction #8096474

Dear Apple Customer

Your Apple ID was used to buy a iOS Game "Grand Theft Auto: Vice City" from the App Store on a computer or device that had not previously been associated with your Apple ID.

Order total: 12.49 GBP

If you initiated this download, you can disregard this email. It was only sent to alert you in case you did not initiate the download yourself.

If you have not authorize this charge, please follow the link below as soon as possible to cancel the payment!

<http://edilfutura.biz/app.php?stid=37ecd27608480aa3569a511a638ca74f>

Apple Store Billing Support

Message ID: 1294995

This is a confidential email intended only for the Apple customer appearing as the addressee. If you are not the intended recipient please delete this email and inform the sender as soon as possible. Please note that any copying, distribution or other action taken or omitted to be taken in reliance upon it is prohibited and may be unlawful.

Your role in keeping you safe (continued)

What about
this one?

Looks legit?

Nope

From: parcelde@dhl.com [mailto:parcelde@dhl.com]

Sent: 01 February 2016 09:30

To: Recipients

Subject: Notice of delivery



Dear Customer,

Our comp in your sy <http://turnovertrading.com/images/big/login.htm> this was as a result of the wrong information we have the below button (Update) and update your information.
Click to follow link

Update

Your parcel will be delivered immediately as soon as we have corrected the information.

Thank you for using our services.

A handwritten signature in black ink, appearing to read 'Mark Willson', written in a cursive style.

Mark Willson
Dispatch Director, DHL - GLOBAL

Your role in keeping you safe (continued)

You have 1 message waiting for you.

OK

Cancel

Do not show this message again

WHEN MONEY GETS TIGHT!!! LOOK WHAT WE CAUGHT FORMER MURDER INC FEMALE RAPPER VITA DOING ON TWITTER . . . LOOKS LIKE SHE'S TRYING TO SOLICIT CLIENTS!! (SMH)



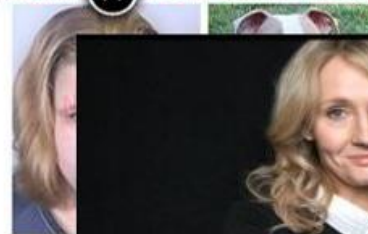
194 COMMENTS

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SHOCK CRIME: WOMAN IS ARRESTED FOR TAKING SELFIES . . . OF HER HAVING RELATIONS WITH HER DOG . . . THEN POSTING IT ON FACEBOOK!!



J.K. Rowling Reveals First Meeting Between the Dursleys and the Potters

Reported By Mashable Jun 23 6:53 PM EST

Your role in keeping you safe, (continued)

Take reasonable precautions

Keep your systems up to date (at home, we do that at work)

Install an ad-blocker in your web browser (we recommend uBlock Origin)

Use a password manager to generate unique passwords for all your accounts, and two factor authentication wherever you can (Google, Microsoft, Facebook, LinkedIn, Amazon)

Avoid over-sharing on social media, and surveys on social media (“Which GoT character are you?”)

Your role in keeping you safe, (continued)

Non-technical measures

A lot of compromises were made possible using non-technical means, mostly covered by the term 'Social Engineering'

Generally a person will attempt, by phone or in person, to overtly or covertly bypass normal security protections

Look out for shoulder surfing, tail-gating into buildings, unexpected visitors claiming to be from IT who you don't recognise (and won't identify themselves)

It's OK to challenge!

Question politely and helpfully *"Hi, can I help you at all? Who are you here to see?"*

Summary

Remember

- We're doing everything we can to protect you at work
- If we ask you to do something, there's a reason!
- It can happen to you, but it is preventable
- Think before you click
- Keep your systems up to date and install anti-virus (Sophos is free at home!)
- Use a password manager and two-factor authentication
- Don't overshare

Thank you for your time

Any questions?