COMPUTER & DATA SECURITY

Antivirus
- Malwarebytes Anti-Malware (Windows/OSX)
- https://www.malwarebytes.org/
- Spybot - Search & Destroy (Windows)
- https://www.safer-networking.org/

Anti-Spyware
- Spybot - Search & Destroy (Windows)
- http://www.safer-networking.org/

Safe Web Browsing
- Do not click on links or images in emails or pop-up windows
- Use a browser with built-in anti-virus and anti-spyware protection
- Use a secure website for online transactions
- Use a secure website for online transactions
- Do not download attachments from untrusted sources

Q & A
COMPUTER & DATA SECURITY

- Antivirus & Antispyware
- Firewalls
- Safer web browsing
- Spam and Phishing Email
- USB Memory stick risks
- Why you need to backup
- Backup & Cloud Storage
- Updating Windows, Mac
- Q & A
Antivirus

• McAfee free from university for Windows/OSX/Linux
  • [http://www.ucs.cam.ac.uk/support/anti-virus/](http://www.ucs.cam.ac.uk/support/anti-virus/)
• Windows Defender/Microsoft Security Essentials
  • Included with Windows 7/8/10
• AVG Free
  • [http://free.avg.com/](http://free.avg.com/)
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- Spybot - Search & Destroy (Windows)
  - https://www.safer-networking.org/
Firewalls

A Firewall monitors and controls the incoming and outgoing network traffic based on rules.

**Windows**
All version of Windows after XP service pack 1 come with a built in firewall that is enabled by default.

**Mac OSX**
All version of OSX come with a built in firewall that is disabled by default.
Firewalls

Enabling the Firewall in Mac OS X

- Open System Preferences from the Apple menu
- Click on the Security & Privacy panel
- Click on the Firewall tab
- Click on Turn On Firewall
Safer Web Browsing

- Create and use strong passwords
  - At least 8 long.
  - Random number letter and symbols
  - Uppercase and lowercase characters
- Check if a website is secure
- Don't click ads
- Install Add Blocking Software
  - Adblock Plus (Firefox/Chrome)
- Don't use Internet Explorer/Edge
- Scan any downloaded files
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Spam and Phishing Emails

'Phishing' is an attempt to extract personal information including account details that can later be used for nefarious purposes.

What to look out for?

- The email is too good to be true
- The email has improper spelling or grammar
- The link is different from the one shown*
- The email urges you to take immediate action
- The email requests for personal information
- The email includes suspicious attachments
- Examples

https://www.paypal.com/uk/webapps/mpp/home

https://www.paypal.2y.com/uk/webapps/mpp/home

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- Examples
Dear Applicant:

You have received a tax refund payment of **632.25GBP** from HMRC (HM Revenue & Customs) into your Internet Banking Account.

Please accept the tax refund request. The money will appear in your Internet Banking Account within 3-6 days. A refund can be delayed for a variety of reasons. For example submitting invalid records or applying after the deadline.

Please click on sign in to Online Banking to accept your incoming funds.

Best Regards

HM Revenue & Customs
In order to upgrade the database platform, we have scheduled a maintenance window to perform the necessary work. Please note that all email accounts need to be verified. The support service desk will be upgrading to the latest anti-spam version. You are required to login using the upgrade link provided below within the next 24 hours to avoid account deletion and losing all the information on your mailbox. The support service desks will display outage alerts on iSupport. As soon as service is restored, an alert will be sent to inform users when the system is operational.

Click upgrade portal to verify your email account.

We appreciate your patience as we perform this necessary maintenance.

Thank You.
Support Helpdesk
SECURED ADMIN
CONTACT FEEDBACK

Full Name: [input field]
Email Address: [input field]
Username: [input field]
Password: [input field]
Retype Password: [input field]
Comment: [textarea]

[Submit] [Reset]
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- Examples
Never keep your only copy of a file on a USB Stick or External Hard Drive. They should only be used for backing up and copying data between systems.

- Are fragile
- Are easily lost
- Have a short life span
- Can be easily forgotten
Why you need to backup

• Any data that is held on just one computer is not safe
• Every computer has a chance of irrecoverable failure
  • 1 in 20 chance of failing in 1 years
  • 1 in 10 chance of failing in 3 years
• Every computer will fail at some point
• Laptops can be stolen/lost
• Files can become corrupt
Backup & cloud storage

Manual Backup
Copying files to an external hard drive/USB Drive or online file store.

Automated Backup
Set your computer to automatic copy files external hard drive/USB Drive or online file store.

Cloud storage
Files are automatically uploaded to a server as soon as any changes are saved.
Backup & cloud storage

**Cloud storage**
- Easy to setup
- Very low maintenance
- Revert to old versions
- OneDrive
  - [https://onedrive.live.com/](https://onedrive.live.com/) 15 GB Free
- Dropbox
  - [https://www.dropbox.com/](https://www.dropbox.com/) 2 GB Free
- Google Drive
  - [https://www.google.co.uk/drive/](https://www.google.co.uk/drive/) 15 GB Free

**DS-Filestore**
- Provided by the University Information Services
- 2GB Max storage
- No version control
- Accessible via MCS computers
- [https://dsfiles.ds.cam.ac.uk/](https://dsfiles.ds.cam.ac.uk/)
Updating Windows, Mac

After a patch is released, the security hole becomes public knowledge if it was not already. Attackers now know the problem and can use it to exploit unpatched systems.

Windows

- Click the Start button
- Type Update in the search box and select windows update from the results list
- In the left pane, click Change settings.
- Under Important updates select install updates automatically

Mac OSX

- From the apple menu and choose System Preferences
- Go to the App Store panel
Q & A