Legislation

Legislation

- What legislation impacts on information security?
- How do we lawfully collect, store, and manage information?
- What laws are in place to protect software?
- How can organizations protect themselves, and their customers, within the confines of the law?



Acts and Regulations

Computer Misuse Act 1990 Freedom of Information Act 2000

Regulation of Investigatory Powers Act 2000

Data Protection
Act
1998

Privacy and Electronic Communications Regulations 2003-2011

Copyright, Designs and Patents Act 1988

Malicious Communications Act 1988

Human Rights Act 1998

Equality Act 2010

Terrorism Act 2006

Official Secrets Act 1989

Limitation Act 1980

Digital Economy Act 2010

Police and Justice Act 2006

Computer Misuse Act 1990

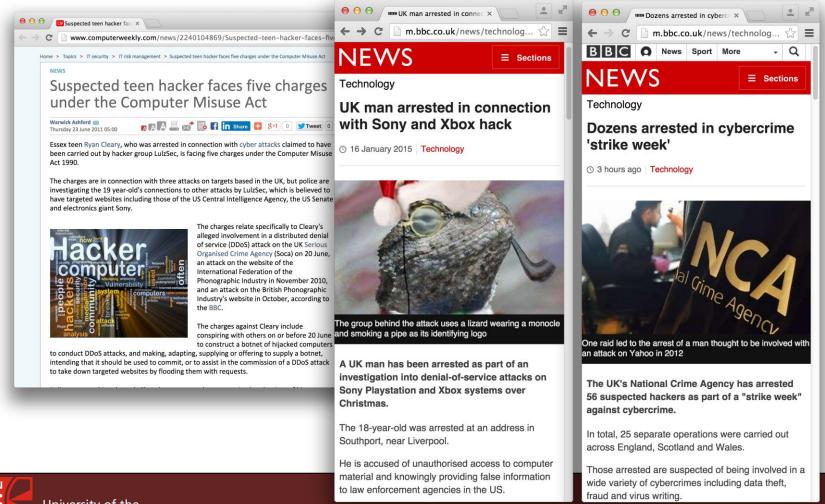
A person is guilty of an offence if:

- a) He causes a computer to perform any function with intent to secure access to any program or data held in any computer, or to enable any such access to be secured.
- b) The access he intends to secure, or to enable to be secured, is unauthorized; and
- c) He knows at the time when he causes the computer to perform the function that that is the case.

http://www.legislation.gov.uk/ukpga/1990/18/contents



Computer Misuse Act 1990



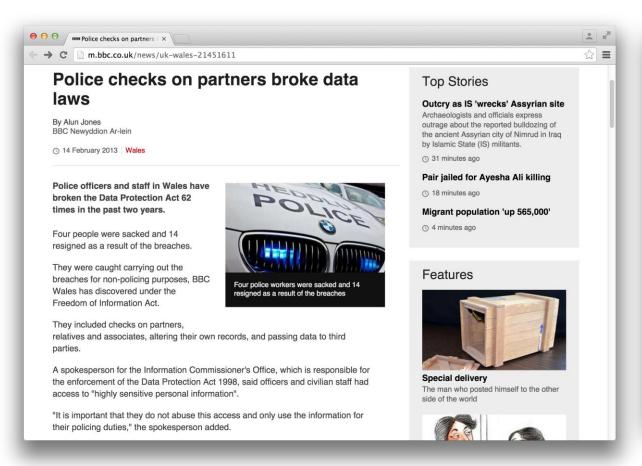


Data Protection Act 1998

- Personal data shall be:
 - processed fairly and lawfully, and obtained only for the specified purpose.
 - adequate, relevant and not excessive.
 - accurate, and where necessary, kept up to date
 - kept only as long as is required for its purpose.
- Individuals can:
 - View the data that an organisation holds on them.
 - Request that incorrect information be corrected, which if ignored, court order can have data corrected or destroyed.

http://www.legislation.gov.uk/ukpga/1998/29/contents

Data Protection Act 1998





General Data Protection Regulation (GDPR) – May 2018

- A major change to how EU organisations (including UK) should manage data agreed in 2016, with 2 year period to comply (25th May 2018).
- Some key points:
 - Increased Territorial Scope it applies to all companies processing the personal data of data subjects residing in the Union, regardless of the company's location
 - Penalties 4% of annual global turnover or €20M (whichever is greater) for most serious infringments.
 - Consent companies will no longer be able to use long illegible terms and conditions full of legalese, as the request for consent must be given in an intelligible and easily accessible form
 - Breach notification to notify users within 72 hours of discovery
 - Privacy by design the inclusion of data protection from the onset of the designing of systems, rather than an addition



General Data Protection Regulation (GDPR) – May 2018

- Key data subject rights
 - Right to access whether or not personal data concerning them is being processed, where and for what purpose. Further, the controller shall provide a copy of the personal data, free of charge, in an electronic format. This change is a dramatic shift to data transparency and empowerment of data subjects.
 - Right to be forgotten entitles the data subject to have the data controller erase his/her personal data, cease further dissemination of the data, and potentially have third parties halt processing of the data
 - Right for data portability the right for a data subject to receive the personal data concerning them, which they have previously provided in a 'commonly use and machine readable format'
 - Rights in relation to automated decision making

https://www.eugdpr.org/key-changes.html https://ico.org.uk/for-organisations/guide-to-the-general-data-protection-regulation-gdpr/individual-rights/ https://gdpr-info.eu/art-22-gdpr/

Data Protection Impact Assessment (DPIA)

- The GDPR mandates a DPIA be conducted where data processing "is likely to result in a high risk to the rights and freedoms of natural persons". The three primary conditions identified in the GDPR are:
 - A systematic and extensive evaluation of personal aspects relating to natural persons, which is based on automated processing, including profiling, and on which decisions are based that produce legal effects concerning the natural person or similarly significantly affect the natural person.
 - Processing on a large scale of special categories of data or of personal data relating to criminal convictions and offences.
 - Systematic monitoring of a publicly accessible area on a large scale.

https://www.itgovernance.co.uk/data-protection-impact-assessment-dpia

CIA Principle

- Confidentiality
 - Data should only be viewed by those who are authorized to do so.
- Integrity
 - Data should be accurately recorded, and maintained in its original representation.
- Availability
 - Data should be readily accessible for the authorized users.

Think about how CIA relates to the Computer Misuse Act and the Data Protection Act.

Intellectual Property Rights

- IP is a mechanism designed to protect our creative ideas – may be arts, written, musical.
 - Extends to algorithms and software.

 IP includes copyright, patents, industrial design rights, and trademarks.

Intellectual Property Rights

Patents

– Granted by government to an inventor, giving rights to exclude others from making, using, selling, offering to sell, and importing an invention for a limited period of time, in exchange for the public disclosure of the invention. An invention is a solution to a specific technological problem, which may be a product or a process.

Intellectual Property Rights

Copyright

A copyright gives the creator of an original work exclusive rights to it, usually for a limited time.
Copyright may apply to a wide range of creative, intellectual, or artistic forms, or "works".
Copyright does not cover ideas and information themselves, only the form or manner in which they are expressed.

Intellectual Property Rights

- Industrial design rights
 - An industrial design right protects the visual design of objects that are not purely utilitarian. An industrial design consists of the creation of a shape, configuration or composition of pattern or colour, or combination of pattern and colour in threedimensional form containing aesthetic value. An industrial design can be a two- or three-dimensional pattern used to produce a product, industrial commodity or handicraft.

Intellectual Property Rights

- Trademarks
 - A trademark is a recognizable sign, design or expression which distinguishes products or services of a particular trader from the similar products or services of other traders.

Copyright Law

- Copyright, Designs and Patents Act 1988
- Federation Against Software Theft (FAST) 1984
 - Prevention of software piracy

 https://www.gov.uk/intellectual-property/lawpractice

End User License Agreements (EULA)

- Used for proprietary (closed-source) software.
- Contract between licensor and the purchases, establishing the purchaser's rights to use the software.
 - Typically will state that the software can not be copied, modified, or redistributed by the purchaser.
 - May also state how personal data will be used by the software.

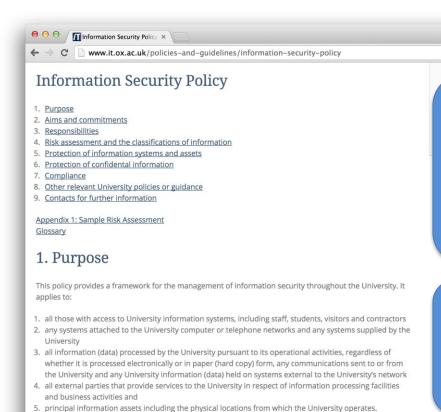
Open Source Software Licensing – (Free Software Foundation)

- GPL GNU General Public License
 - Most widely used free software license.
 - End-user can study, share and modify software.
 - Copyleft same rights must be offered for future use.
- LGPL GNU Lesser General Public License
 - Same as GPL, but is not copyleft.
 - Means code library could be used in another project, and would not require an open-source license (i.e. proprietary).

Information Security Policy

- Documentation of how an organisation will address information security.
 - Should be suitable for employees, stakeholders, contractors, customers.
- Policy should be in line with legislation, and with the business objectives.
- Policy should explain how information (data) will be utilized, stored, managed, and secured.
- Ensures confidentiality, integrity, availability of data.

networking



This policy provides a framework for the management of information security throughout the University.

1.1 It applies to all those with access to University information systems, including staff,

2.1 The University recognizes the role of information security in ensuring that users have access to the information they require in order to carry out their work.

students, visitors and contractors.

2.2 Any reduction in the confidentiality, integrity or available of information could prevent the University from functioning effectively and efficiently.

http://www.it.ox.ac.uk/policies-and-guidelines/information-security-policy

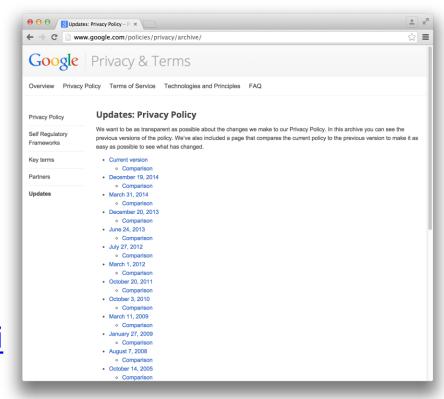


Privacy Policy

- More focus towards how the information of the individual (customer, employee) is managed.
 - What data will be collected
 - Why it is collected
 - How it is used
 - How it can be accessed and updated.

Privacy Policy

- Google maintain archive of previous policies, and comparisons.
- Earliest: June 9th 1999
- 17 versions to date (as of February 25th 2015)
- Changes reflect how their business has evolved, and how they use personal data.
- http://www.google.com/polici es/privacy/archive/



Privacy Policy

- Examine the different policies and the comparisons.
- Examine the Google Timeline
 https://www.google.co.uk/about/company/timeline/
 - E.g. Gmail 2004, Google Maps 2005,
 Youtube 2006, Android 2007)
- How do the changes of the business reflect in the privacy policy?



Recap

- Computer Misuse Act, Data Protection Act.
- General Data Protection Regulation
- Intellectual Property Rights.
 - Copyright, Designs and Patent Act.
- Software Licensing (EULA, Open-Source)
- Privacy Policy