# **Cyber Security Glossary**





Use our Cyber Security Glossary to help you understand some of the common terminology used when discussing security measures.



#### **Antivirus**

Software that is designed to detect, stop and remove viruses and other kinds of malicious software.

#### **Attacker**

Malicious actor who seeks to exploit computer systems with the intent to change, destroy, steal or disable their information, and then exploit the outcome.

# B

#### **Blacklist**

A list of entities (users, devices) that are either blocked, denied privileges or access.

#### **Botnet**

A network of infected devices, connected to the Internet, used to commit coordinated cyber-attacks without their owner's knowledge.

#### Breach

An incident in which data, computer systems or networks are accessed or affected in a non-authorised way.

## **Brute force attack**

Using a computational power to automatically enter a huge number of combination of values, usually in order to discover passwords and gain access.



#### Cloud

Where shared computer and storage resources are accessed as a service (usually online), instead of hosted locally on physical services. Resources can include infrastructure, platform or software services.

#### Credentials

A user's authentication information used to verify identity - typically one, or more, of password, token, certificate.

## **Cyber Attack**

Malicious attempts to damage, disrupt or gain unauthorised access to computer systems, networks or devices, via cyber means.

## **Cyber Incident**

A breach of the security rules for a system or service - most commonly;

- Attempts to gain unauthorised access to a system and/or to data.
- · Unauthorised use of systems for the processing or storing of data.
- · Changes to system firmware, software, or hardware without the system owner's consent.
- · Malicious disruption and/or denial of service.

# **Cyber Security**

The protection of devices, services and networks — and the information on them — from theft or damage.



#### **Data at Rest**

Describes data in persistent storage such as hard disks, removable media or backups.

## Data breach

The unauthorised movement or disclosure of information, usually to a party outside the organisation.

# Decryption

The process of deciphering coded text into its original plain form.

# **Dictionary Attack**

A type of brute force attack in which the attacker uses known dictionary words, phrases or common passwords as their guesses.

## **Digital Footprint**

A 'footprint' of digital information that a user's online activity leaves behind.

## Denial of Service (DoS)

When legitimate users are denied access to computer services (or resources), usually by overloading the service with requests.

#### **Download Attack**

The unintentional installation of malicious software or virus onto a device without the users knowledge or consent. May also be known as a drive-by download.



# **Encryption**

A mathematical function that protects information by making it unreadable by everyone except those with the key to decode it.

#### **End User Device (EUD)**

Collective term to describe modern smart phones, laptops and tablets that connect to an organisation's network.

# **Endpoint**

A collective term for internet-capable computer devices connected to a network – for example, modern smart phones, laptops and tablets are all endpoints.

# **Ethical hacking**

The use of hacking techniques for legitimate purposes – i.e. to identify and test cyber security vulnerabilities. The actors in this instance are sometimes referred to as 'white hat hackers'.

# F

## **Firewall**

Hardware or software which uses a defined rule set to constrain network traffic to prevent unauthorised access to or from a network.

# Н

#### Hacker

In mainstream use as being someone with some computer skills who uses them to break into computers, systems and networks.

#### Incident

A breach of the security rules for a system or service, such as:

- attempts to gain unauthorised access to a system and/or data
- unauthorised use of systems for the processing or storing of data
- changes to a systems firmware, software, or hardware without the system owner's consent
- malicious disruption and/or denial of service

# **Insider Risks**

The potential for damage to be done maliciously or inadvertently by a legitimate user with privileged access to systems, networks or data.

#### ISO 27001

The gold standard in information security management systems (ISMS), demonstrating the highest level of accreditation.

# M

## Macro

A small program that can automate tasks in applications (such as Microsoft Office) which attackers can use to gain access to (or harm) a system.

## **Malvertising**

Using online advertising as a delivery method for malware.

#### Malware

Malicious software - a term that includes viruses, trojans, worms or any code or content that could have an adverse impact on organisations or individuals.

#### Mitigation

Steps that organisations and individuals can take to minimise and address risks.

## Mobile Device Management (MDM)

A type of security software, specifically for monitoring, managing, and securing mobile, tablet and other devices, allowing remote administration and management of the device.

# N

#### **Network**

Two or more computers linked in order to share resources.

# P

# **Patching**

Applying updates to firmware or software to improve security and/or enhance functionality.

#### **Pentest**

Short for penetration test. An authorised test of a computer network or system designed to look for security weaknesses so that they can be fixed.

# **Pharming**

An attack on network infrastructure that results in a user being redirected to an illegitimate website despite the user having entered the correct address.

## **Phishing**

Untargeted, mass emails sent to many people asking for sensitive information (such as bank details) or encouraging them to visit a fake website.

## **Proxy server**

A go-between a computer and the internet, used to enhance cyber security by preventing attackers from accessing a computer or private network directly.

# R

#### Ransomware

Malicious software that makes data or systems unusable until the victim makes a payment.

#### Router

A network device which sends data packets from one network to another based on the destination address. May also be called a gateway.

# S

# Security perimeter

A well-defined boundary within which security controls are enforced.

# **Smishing**

Phishing via SMS: mass text messages sent to users asking for sensitive information (e.g. bank details) or encouraging them to visit a fake website.

#### Social engineering

Manipulating people into carrying out specific actions, or divulging information, that's of use to an attacker.

## **Spam**

The abuse of electronic messaging systems to indiscriminately send unsolicited bulk messages.

# **Spear-Phishing**

A more targeted form of phishing, where the email is designed to look like it's from a person the recipient knows and/or trusts.

# **Spoofing**

Faking the sending address of a transmission to gain unauthorised entry into a secure system.



#### **Token**

In security, a token is a physical electronic device used to validate a user's identity. Tokens are usually part of the two-factor or multi-factor authentication mechanisms. Tokens can also replace passwords in some cases and can be found in the form of a key fob, a USB, an ID card or a smart card.

# **Trojan**

A type of malware or virus disguised as legitimate software, which is used to hack into the victim's computer.

#### Two-Factor Authentication (2FA)

The use of two different components to verify a user's claimed identity. Also known as multi-factor authentication.



### Virus

Programs which can self-replicate and are designed to infect legitimate software programs or systems. A form of malware.

# Virtual Private Network (VPN)

An encrypted network often created to allow secure connections for remote users, for example in an organisation with offices in multiple locations.

## **Vulnerability**

A weakness, or flaw, in software, a system or process. An attacker may seek to exploit a vulnerability to gain unauthorised access to a system.



# Whaling

Highly targeted phishing attacks (masquerading as legitimate emails) that are aimed at senior executives.

#### Whitelist

A list of entities that are considered trustworthy and are granted access or privileges.

