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Cyber & Privacy Risk Glossary

CYBER RISK CONTROL TERMS AND CRITICAL CONCEPTS

Access Control
Measures taken to limit access to something, such as an IT system, program, or information. For a shared hard drive, permissions settings can be changed so that only certain user accounts can access files on that hard drive. For physical access, this includes key fobs or passes to unlock doors.

Administrator
A person in an organization who is responsible for managing a computer system or network (in whole or a portion).

Advanced Persistent Threat (APT)
A sophisticated security breach that enables an attacker to gain access or control over network for an extended period, usually without the awareness of the system's owner.

Air Gap
A security measure wherein computer systems or networks are not connected in any way to any other devices or networks. The goal is to ensure total isolation of a given system, most importantly physically, from other networks including the internet. Data can only be transferred by connecting a physical device to air gapped device; no lateral movement possible is the target. A cyber underwriter's focus is on air gapped backups—copies of network data completely separate physically from any network connections including internet access.

Asset
Data, devices, or other components of the network environment that support cyberactivities.

Asset Management
Developing, operating, maintaining, upgrading, and disposing of Information Technology (IT) assets throughout their lifetime. Asset Management may also keep track of assets and their support lifecycles.

Authentication
The process of identifying a user via a password, PIN, and/or other means. Up-to-date Authentication uses multiple factors, such as a password in conjunction with something the person possesses (such as a Smartphone or VPNfob), or something personal (such as a biometric scan involving a fingerprint, eye scan, or voice recognition).

Authorization
The security mechanism determining and enforcing what authenticated users are authorized to do within a computer system.

Backup
The process of creating and storing copies of data and network information that can be used to protect organizations against data loss. A proper backup copy is stored in a separate system or medium from a network, or "air gapped" (physically disconnected) from the primary data and network to protect against the possibility of data loss.

Botnet
A collection of third-party computers that have been compromised by malicious code to run malware; an attacker is then able to remotely take advantage of the computer systems' resources to perform illicit or criminal actions.

Bring Your Own Device (BYOD)
A company's security policy that dictates whether employees can bring their own devices into the work environment, connect them to the company network, and allow interaction with company resources via employee mobile phones, pads, laptops, etc.

Business Continuity Plan (BCP)
A business plan used to resolve issues that threaten core business functions during a cyberagent.

Cloud Computing
The delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud") to offer faster innovation, flexible resources, and economies of scale.

Command and Control (C&C) Server
A server controlled by a bad actor (such as a hacker or malware controller) which is used to send commands and receive exfiltrated data.

Common Vulnerabilities and Exposures (CVE)
The entries that make up the database of publicly known/disclosed information security "vulnerabilities" (such as a software code error) and "exposures" (such as a software configuration error) as defined by U.S. Dept of Homeland Security (DHS). Standardization of these known CVEs is meant to allow for quick reference and ability to diagnose threats for underwriting across industries and networks.

Computer Network Defense (CND)
The establishment of a security perimeter and internal security requirements with the goal of defending a network against cyberattacks, intrusions, and other violations. A CND is defined by a security policy and can be stress-tested using vulnerability assessment and penetration testing measures.

Connection Exhaustion
A type of Denial of Service (DoS) attack that repeatedly makes connection requests to a target to consume all system resources related to connections, which prevents any other connections from being established or maintained.

Cyber Attack/Incident
Any attempt to violate the security perimeter of, or the privacy of data held by, an organization, group or individual. Cyber attacks take many forms, but most are for the purpose of gathering and exfiltrating information (including private data), damaging business processes, monitoring targets, or using compromised network resources to support attacks against other targets.

Crypto Jacking
The unauthorized use of a computer network to mine cryptocurrency through use of malware.

Cyber Security
The effort to design, implement and maintain security for an organization's network. An organization's cybersecurity should be defined in a security policy, verified through evaluation techniques (see "Penetration Testing "and "Vulnerability Assessment"), revised against standards, and updated and improved as the organization evolves and as new threats are discovered.

Data Breach
Includes but not limited to the disclosure of confidential information, access to confidential information, and unauthorized destruction of data assets. Generally, a data breach results from the unauthorized accessing of personal and/or health data by external entities without authorization.

Data Loss
Occurs when protected data, such as personal and health data, is lost by the responsible party and possessed by unauthorized entities. An example would be when a storage device is lost or stolen containing personally identifiable (PII) or personal health (PHI) information. Also known as "Data Leakage."

Data Loss Prevention (DLP)
A collection of security mechanisms that aim to prevent the occurrence of data loss and data leakage. DLP seeks to prevent cyberbreach occurrences through various techniques, such as by placing strict access controls on resources, blocking the use of email attachments, preventing network file exchange to external systems, blocking cut and paste, disabling use of social networks, and encrypting stored data.

Data Mining
The activity of analyzing and/or searching through data to find items of relevance, significance, or value. The results of data mining are known as metadata.

Data Theft
The act of intentionally stealing data. Data theft can occur in physical or electronic data loss.

Decrypt
The act that transforms ciphertext (the random form of data that is produced after encryption) back to its original plaintext or cleartext form. Decryption is a key ransomware concept.

Distributed Denial of Service (DDoS)
An attack that attempts to block access to and use of a resource via overloading a server with requests in a short period of time.

Digital Footprint
Someone's unique set of digital activities/actions that can be traced on the internet or on digital devices.

Digital Forensics
The means of gathering digital information to be used as evidence in a legal procedure. Digital forensics focuses on gathering, preserving, and analyzing the data from a computer system and network.

Disaster Recovery Plan
A plan that is similar to an incident recovery plan but designed to help an organization recover from larger disaster level incidents.

Domain-based Message Authentication, Reporting & Conformance (DMARC)
An email security protocol that uses Sender Policy Framework (SPF) and DomainKeys Identified Mail (DKIM) to determine the authenticity of an email message.

DomainKeys Identified Mail (DKIM)
Allows senders to associate a domain name with an email message, thus vouching for its authenticity. A sender creates the DKIM by "signing" the email with a digital signature. The "signature" can be found in the message's header.

Employee Training Program
Cybersecurity training to protect employees and the company against cyberattacks. The focus is on employee awareness of current security threats, such as spam, phishing, malware, ransomware, and social engineering. Required by underwriters.

Encode
The act of transforming plain text or clear text (original form) into ciphertext (using symmetric encryption algorithm).

Encryption
A method of protecting information or data by encoding it. If data is encrypted, it can be read only by having the correct key or password. Encryption is often recommended for sensitive data.

Encryption Key
The secret number value used by a symmetric encryption algorithm to control the encryption and decryption process. The longer the key, the more security it provides.

Endpoint Application Isolation and Containment Technology
A form of zero-trust endpoint security. Instead of detecting or reacting to threats, it enforces controls that block and restrain harmful actions to prevent compromise. App containment is used to block harmful file and memory actions to other apps and the endpoint. App isolation is used to prevent other endpoint processes from altering or stealing from an isolated app or resources.

Endpoint Detection and Response (EDR)
Also known as "endpoint threat detection and response," this process centrally collects, monitors, analyzes and responds to comprehensive endpoint data across an entire organization to alert/eliminate potential threats. Common providers include CrowdStrike Falcon Endpoint Protection, Sentinel One, Carbon Black Cloud, and Cisco AMP.

External Penetration Testing
A security assessment of the perimeter security systems that replicates the activities of real hackers. This test typically operates without access to a targets systems or networks.

Firewall
A security tool (hardware or software) that is used to filter network traffic.

Flooding Attack
A type of Distributed Denial of Service (DDoS) attack that sends massive amounts of network traffic to the target, overwhelming the ability of network devices and servicers to handle the raw load.

Forensic Activities
Measures taken to collect preserve evidence. In the context of cybersecurity, forensic activities help ensure the preservation of information that may be needed for an investigation and prevent tampering or accidental modification.

Hacker
A person who has knowledge and skill in analyzing program code for computer systems, and who can modify a system's functions or operations and alter its abilities and capabilities. Hackers may be ethical and authorized or malicious and unauthorized and can range from professionals who are skilled programmers to those who have little knowledge of the specifics of a system but who can follow directions ("script kiddies").

Hacktivism
Attackers who hack for a cause of belief rather than for some form of personal gain. Hacktivism is often viewed by attackers as a form of protest or as a way of fighting for their perceived right or justice. This activity is illegal when a victim's technology or data is abused, harmed, or destroyed.

Incident Recovery Plan
A plan designed to aid in recovering from an incident. It differs from an Incident Response plan in that it is focused on reversing the effects of an incident after it has happened. Such a plan may repair or limit reputational damage, depending on whether the incident affected other parties (such as customers of business partners).

Incident Response Plan
A set of instructions that should be followed in the event of a security incident to help contain or prevent adverse impacts to IT systems or their data. These plans can address different scenarios such as (but not limited to) the loss of data, service outages, or compromise of IT systems.

Internet Connection Sharing (ICS)
Allows multiple computers to connect to the internet using the same internet connection and IP address.

Internet of Things (IoT)
The internet connectivity of physical objects such as vehicles, devices, buildings and electronics and the networks that allow them to interact, collect, and exchange data.

Malware
A computer program that is covertly placed onto a computer or electronic device with the intent to compromise the confidentiality, integrity, or availability of data, applications, or operating systems. Malware commonly includes viruses, worms, malicious mobile code, Trojan horses, rootkits, spyware, and some forms of adware.

Multi-Factor Authentication (MFA)
An authentication method in which a user is granted access to a website or application only after successfully presenting three or more "factors" or pieces of evidence to an authentication mechanism: knowledge (password), possessional item (phone, key), and/or biometrics information (fingerprints, facial scan, retina/iris scan, etc.).

Network
An information system implemented with a collection of interconnected components, such as computers, routers, hubs, cabling, and mobile devices.

Network Segmentation
Splitting a network into sub-networks by creating separate areas that are protected by firewalls configured to reject unnecessary traffic. Network segmentation minimizes the harm of malware (and other threats) by isolating it to a limited part of the network.

Network Segregation
Separating critical networks from the internet and other less sensitive networks. Network segregation can be used in combination with network segmentation.

Next-Generation Anti-Virus (NGAV)
Software that uses predictive analytics driven by machine learning, artificial intelligence, and threat intelligence to detect and prevent malware and exploit kits, identify malicious behavior, and respond to new and emerging threats that previously went undetected.

Patches/Patching
Software released by developers to fix software bugs and vulnerabilities (known as updating or patching software) to help prevent attacks on an IT system. Patching Cadence is sought by underwriters particularly for critical risks.

Patching Cadence
How often an organization reviews systems, networks, and applications for updates that remediate security vulnerabilities and how quickly these items can be installed.

Penetration Testing
A penetration test, also called a pen test or ethical hacking, is cybersecurity technique organizations use to identify, test and highlight vulnerabilities in their security posture. Penetration tests are often carried out by ethical hackers. Underwriters will require cadence of testing.

Phishing
The process by which scammers send fake emails, usually personalized for more efficient attack, requesting sensitive information or containing links to bad websites in the attempt to trick individuals into sending money or stealing information.

Powershell
A powerful cross-platform task automation and configuration management framework, consisting of a command-line shell and scripting language, used by IT departments to run tasks on multiple computers in an efficient manner. It can be exploited and threaten entire organizations given its reach in the network.

Privileged Account Management Software (PAM)
Allows organizations to secure privileged user credentials in a centralized, secure vault (a password safe). To qualify for inclusion in the Privileged Access Management category, a product must allow administrators to create and provision privileged access accounts, offer a secure vault to store privileged credentials, and monitor/record/or log user actions while using privileged accounts.

Protective DNS service
DNS protection (also known as DNS filtering) provides an additional layer of protection by blacklisting dangerous sites and filtering out unwanted content. It can also help detect and prevent malware that uses DNS tunneling to communicate with a Command and Control (C&C) server.

Ransomware
A type of malware that prevents or limits users from accessing their system, usually by locking user files until a ransom is paid. More modern ransomware malwares encrypt certain file types on infected systems and force users to pay the ransom through certain payment methods (such as cryptocurrency) to obtain a decryption key.

Remote Desktop Gateway (RDG)
Enables authorized users to connect to virtual desktops, remote app programs, and sessions-based desktops over a private network or the internet. No longer seen as secure by underwriters.

Remote Desktop Protocol (RDP) Connections
A proprietary protocol developed by Microsoft that provides a user with a graphical interface to connect to another computer over a network connection. The Microsoft RDP provides remote display and input capabilities over network connections for Windows-based applications running on a server. No longer seen as secure by underwriters.

Risk Assessment
A process in which risks in an IT system and corresponding potential impacts are identified to an organization. Once the risks have been identified and assessed, measures can be developed and implemented to address them.

Router
A device that allows communication between different networks. Routers determine the best path for forwarding data to its destination.

Security Information and Event Management System (SIEM)
A subsection within the field of computer security, in which software products and services combine security information management and security event management to provide real-time analysis of security alerts generated by applications and network hardware.

Security Operations Center (SOC)
A centralized unit or group that deals with security issues on an organizational and technical level. 24/7 functionality is sought by underwriters.

Sender Policy Framework (SPF)
An email-authentication technique that is used to prevent spammers from sending messages on behalf of a particular domain (or "spoofing" the domain).

Software Support Lifecycle
The period in which programs or applications are maintained by their developers (creators/manufacturers). During the lifecycle, the creators/manufacturers will release updates to fix security issues. When software support is no longer available and updates/patches are no longer released, software can become more vulnerable to attacks as it is at "End of Life" or "End of Support."

Spyware
Software that enables a user to obtain information about another's computer activities by covertly transmitting data from their hard drive.

System Development
A process to create and implement a hardware or software system. This process involves planning, designing, implementing, and maintaining the system.

Trojan Horse
A type of malware that downloads disguised as a legitimate program.

Two Factor Authentication
Accessing an account or information by using two methods. Usually, the first method is the computer password. The second method may include sending a code to a cell phone (most common), inserting a badge/pass into a computer, connecting via a special USB key, or using fingerprint scanners.

Virtual Private Network (VPN)
A virtual network built on top of existing networks that can provide a secure communications mechanism for data and Internet Protocol (IP) information transmitted via the virtual network.

Vulnerability
A flaw that can be exploited during an attack. The term is commonly used when talking about flaws in software, but can refer to flaws in many other aspects of business, such as processes, policies, or physical defenses. A hacker can exploit a vulnerability in software by taking over a computer, viewing or changing confidential information, or compromising a computer in other ways. When vulnerabilities are discovered, developers are likely to issue patches/updates to fix them and stop adverse effects. Also known as "Vuln" or "Lulz Vuln," reports on vulnerability scans will be provided by many underwriters and remediation will be required.

Vulnerability Management Tool
A cloud service that provides instantaneous, global visibility into vulnerabilities and threats against IT systems. An ongoing process that includes proactive asset discovery, continuous monitoring, mitigation, remediation, and defense tactics. Common providers include Qualys, InsightVM/Rapid7, and Nessus/Tenable.

Vulnerability Assessment
A review of security weaknesses in a network which can be conducted at various times, complexities and targets.

Zero Trust
The Zero Trust Security Model (also, Zero Trust Architecture or Zero Trust Network) describes an approach to the design and implementation of IT systems. The main concept behind zero trust is "never trust, always verify," meaning that devices should not be trusted by default.

Sources: TokioMarine, CISA, Fortinet, California State University, Imperva, Cloudflare, Global Knowledge, SANS Technology Institute, and Techopedia.

How can we help?
To learn more about mitigating cybercrime losses with insurance and risk management, contact us by phone or email.

Contact our Cyber Risk Specialist



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