Access controls

Security controls that manage access, authorization, and accountability of information

Algorithm

A set of rules used to solve a problem

Application programming interface (API) token

A small block of encrypted code that contains information about a user

Asymmetric encryption

The use of a public and private key pair for encryption and decryption of data

Basic auth

The technology used to establish a users request to access a server

Bit

The smallest unit of data measurement on a computer

Brute force attack

The trial and error process of discovering private information

Cipher

An algorithm that encrypts information

Cryptographic key

A mechanism that decrypts ciphertext

Cryptography

The process of transforming information into a form that unintended readers cant understand

Data custodian

Anyone or anything thats responsible for the safe handling, transport, and storage of information

Data owner

The person that decides who can access, edit, use, or destroy their information

Digital certificate

A file that verifies the identity of a public key holder

Encryption

The process of converting data from a readable format to an encoded format

Hash collision

An instance when different inputs produce the same hash value

Hash function

An algorithm that produces a code that cant be decrypted

Hash table

A data structure that's used to store and reference hash values

Identity and access management (IAM)

A collection of processes and technologies that helps organizations manage digital identities in their environment

Information privacy

The protection of unauthorized access and distribution of data

Multi-factor authentication (MFA)

A security measure that requires a user to verify their identity in two or more ways to access a system or network

Non-repudiation

The concept that the authenticity of information cant be denied

OAuth

An open-standard authorization protocol that shares designated access between applications

Payment Card Industry Data Security Standards (PCI DSS)

A set of security standards formed by major organizations in the financial industry

Personally identifiable information (PII)

Any information used to infer an individual's identity

Principle of least privilege

The concept of granting only the minimal access and authorization required to complete a task or function

Protected health information (PHI)

Information that relates to the past, present, or future physical or mental health or condition of an individual

Public key infrastructure (PKI)

An encryption framework that secures the exchange of online information

Rainbow table

A file of pre-generated hash values and their associated plaintext

Salting

An additional safeguard thats used to strengthen hash functions

Security assessment

A check to determine how resilient current security implementations are against threats

Security audit

A review of an organization's security controls, policies, and procedures against a set of expectations

Security controls

Safeguards designed to reduce specific security risks

Separation of duties

The principle that users should not be given levels of authorization that would allow them to misuse a system

Session

A sequence of network HTTP basic auth requests and responses associated with the same user

Session cookie

A token that websites use to validate a session and determine how long that session should last

Session hijacking

An event when attackers obtain a legitimate users session ID

Session ID

A unique token that identifies a user and their device while accessing a system

Single Sign-On (SSO)

A technology that combines several different logins into one

Symmetric encryption

The use of a single secret key to exchange information

User provisioning

The process of creating and maintaining a user's digital identity