

14.3.6 Privacy and Responsibility of Data

This lesson covers the following topics:

- Privacy-enhancing technologies
- Roles and responsibilities
- Data management

Privacy-Enhancing Technologies

Classifying data is a good first step, but the data still needs to be protected from unauthorized access. This includes applications and techniques that make data impossible to use if it is breached.

Technology	Description
Information life cycle	Refers to the entire life of data from its collection or creation until its disposal.
Impact assessment	Is a process of examining the effect data processes have on personal data. It also considers the risk level of the process.
Data minimization	A procedure where only data that is absolutely necessary for the intended purpose is collected.
Data masking	Is a form of obfuscation where data is hidden through modified content. This makes the data unreadable to unauthorized persons.
Tokenization	The process of turning meaningful data into a string of unrelated characters that has no value and is not reversible by unauthorized persons.
Anonymization	Removal of PII within data sets so that viewing the data will not identify an individual.
Pseudo-anonymization	Process of replacing PII with simulated identifiers.

Roles within data privacy are becoming more defined as new privacy regulations are passed. These roles help a company divide up the responsibilities associated with data protection.

Roles and Responsibilities

Role	Description
Data owners	A component of data governance. Usually refers to a senior stakeholder that is responsible for a dataset(s).
Data controller	An entity (person or company) that decides the purpose and procedure for processing personal data.
Data processor	A person that works for a data controller in the daily processing of personal data.
Data custodian/steward	Manages the actual data stored on servers, backups, etc.

Data privacy officer
(DPO)

A senior-level employee who is in charge of data governance. GDPR requires one for larger companies.

Data Management

Below are management techniques that address the issues of data privacy. Most of these have been present for a considerable amount of time but have evolved as data protection has become a main concern of the populace.

- Information life cycle
- Impact assessment
- Terms of agreement
- Privacy notice
 - Refers to the entire life of data from collection to disposal
 - Process of examining the effect data processes have on personal data
 - Details how personal data is to be used

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