

Secure Design Principles

Manage Your Assets

Manage Sensitive Data

Reduce Sensitivity

Anonymization

Separate Data and Control

Reduce Exposure

Validate Information

Minimize Secrets

Encryption

Users Come First

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Consider Your Users

Psychological Acceptability

Least Astonishment

Protect as Little as Necessary

Timeliness

Adequate Protection

Protect End-to-End

Weakest Link

Easiest Penetration

Build it Right

Be Explicit

Work Factor

Understand Attack Surfaces

Compromise Recording

Fail-safe Defaults

Embrace Change

Know What You're Doing

Effectiveness

Encrypt Correctly

Be Flexible

Continuous Improvement

Design for Iteration

Open Design

Keep it Simple

Adopt Simplifications

Economy of Mechanism

Keep it Running

Availability

Appropriate Resources

Have Trust Issues

Trustworthy Authentication

Never Assume Trust

Authorize after Authentication

Defense in Depth

Chain of Control

Deny by Default

Transitive Trust

Complete Mediation

Accountability

Non-repudiation

Least Privilege

Don't Tell the Whole Story

Separation of Duty

Separation of Privilege

Least Common Mechanism

Be a Control Freak

Access Controls

Flow Controls

Inference Controls

Secure By Design