

Defense in Depth Security Control Types

"Defense in Depth" is a multi-layered security strategy integrating **administrative, technical, and physical controls** to ensure **if one fails, others protect**. By implementing multiple controls, organizations can protect against a variety of threats, from cyber-attacks to internal breaches, ensuring that critical systems and data remain secure.

Administrative Controls



Admin controls manage user behavior and operations through policies, training, and audits.

Policies & Procedures

Standards for organizational activities, including security guidelines.

Personnel Security

Hiring and managing staff with security-focused processes.

User Training & Awareness

Educating staff on security best practices and potential threats.

Audit and Monitoring

Regularly reviewing security practices for policy compliance.

Access Control Policies

Defining roles for resource access based on organizational roles.

Incident Response Plans

Handling security incidents from identification to recovery.

Physical Controls



Physical controls protect assets via locks, barriers, surveillance, and access management.

Environmental Controls

Systems to protect against fire, flood, and other hazards.

Surveillance Systems & Security Guards

Cameras and monitoring for security and safety.

Physical Barriers

Fences, gates, and locks to prevent unauthorized entry.

Secure Facility Access

Restricted access to buildings using keycards or biometrics.

Visitor Management

Processes to control and monitor visitor access.

Secure Equipment Areas

Protected zones for sensitive or critical equipment.

Technical Controls



Technical controls safeguard IT via firewalls, encryption, antivirus, and access systems.

Firewalls

Systems to block unauthorized network access.

Intrusion Detection Systems

Monitoring networks for suspicious activities.

Encryption

Protecting data in transit and at rest.

Antivirus Software & Patch Management

Protection against malware and viruses plus security updates.

Data Backup

Regular backups of critical data for recovery purposes.

Access Control Systems

Restricting user access to systems and data.

