

Cybersecurity Frameworks and Regulations

Cybersecurity Frameworks and Standards

1. NIST Cybersecurity Framework (CSF)

- **What it is:** A voluntary framework developed by NIST to enhance cybersecurity risk management.
 - **Who must comply:** Primarily critical infrastructure in the U.S., but widely adopted globally.
 - **Key principles/controls:** Five core functions – Identify, Protect, Detect, Respond, Recover.
 - **Penalties:** No direct penalties, but non-adherence can lead to increased breach risk.
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2. ISO/IEC 27001

- **What it is:** An international standard for implementing an Information Security Management System (ISMS).
 - **Who must comply:** Organizations pursuing certification to demonstrate security maturity.
 - **Key principles/controls:** 114 controls across 14 domains, including access control and risk management.
 - **Penalties:** No legal penalties, but certification loss can impact business.
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3. CIS Controls

- **What it is:** A set of best practices developed by the Center for Internet Security to improve cybersecurity.
 - **Who must comply:** Voluntary adoption by organizations for basic security.
 - **Key principles/controls:** 18 critical controls covering inventory, secure configuration, and more.
 - **Penalties:** None, but lack of implementation increases cyber risk.
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4. PCI DSS (Payment Card Industry Data Security Standard)

- **What it is:** A standard for securing credit card data.
 - **Who must comply:** All entities processing, storing, or transmitting payment card data.
 - **Key principles/controls:** 12 requirements including encryption, access control, and monitoring.
 - **Penalties:** Fines up to \$100,000/month and loss of card processing ability.
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5. COBIT (Control Objectives for Information and Related Technologies)

- **What it is:** A framework for IT governance and management.
 - **Who must comply:** Organizations needing structured IT governance.
 - **Key principles/controls:** Governance components like Evaluate, Direct, Monitor (EDM) and others.
 - **Penalties:** No legal penalties, but vital for audit and governance.
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6. SOC 2 Trust Principles

- **What it is:** A compliance framework based on trust service criteria for service providers.
 - **Who must comply:** SaaS and cloud-based service organizations.
 - **Key principles/controls:** Security, Availability, Processing Integrity, Confidentiality, and Privacy.
 - **Penalties:** No legal enforcement, but non-compliance may damage client trust.
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Cybersecurity Regulations and Laws

1. GDPR (General Data Protection Regulation - Europe)

- **What it is:** EU regulation for data protection and privacy.
 - **Who must comply:** Any entity processing EU citizens' data.
 - **Key principles/controls:** Consent, transparency, data minimization, breach notification.
 - **Penalties:** Up to EUR 20 million or 4% of annual global turnover.
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2. HIPAA (Health Insurance Portability and Accountability Act - USA)

- **What it is:** U.S. law protecting healthcare information.
 - **Who must comply:** Healthcare providers, insurers, and their associates.
 - **Key principles/controls:** Privacy Rule, Security Rule, Breach Notification Rule.
 - **Penalties:** Up to \$1.5 million/year per violation type; criminal penalties possible.
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3. CCPA (California Consumer Privacy Act)

- **What it is:** California law granting consumers control over personal data.
 - **Who must comply:** Businesses meeting specific data/revenue thresholds.
 - **Key principles/controls:** Right to know, delete, and opt-out of data sale.
 - **Penalties:** \$2,500–\$7,500 per violation.
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4. Nigerian Data Protection Act (NDPA)

- **What it is:** Nigeria's comprehensive data protection regulation.
 - **Who must comply:** Any organization handling Nigerian citizens' data.
 - **Key principles/controls:** Lawful processing, consent, data subject rights, breach reporting.
 - **Penalties:** Up to NGN 10 million or 2% of gross revenue.
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5. SOX (Sarbanes-Oxley Act - USA)

- **What it is:** U.S. legislation ensuring corporate financial transparency.
 - **Who must comply:** U.S. public companies and foreign firms listed on U.S. exchanges.
 - **Key principles/controls:** Internal control over financial reporting.
 - **Penalties:** Fines and imprisonment for executives violating the Act.
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6. Nigerian Cybercrime Act 2015

- **What it is:** Nigeria's primary cybercrime legislation.
- **Who must comply:** All individuals and entities within Nigeria.

- **Key principles/controls:** Prohibits cyberstalking, fraud, system interference, unauthorized access.
 - **Penalties:** Fines, imprisonment up to 10 years, asset seizure.
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