

# NIST Cybersecurity Framework

## A Comprehensive Guide for Organizations

### Overview

The NIST Cybersecurity Framework provides a policy framework of computer security guidance for how private sector organizations in the United States can assess and improve their ability to prevent, detect, and respond to cyber attacks.

### Core Functions

#### 1. IDENTIFY (ID)

- Asset Management
- Business Environment
- Governance
- Risk Assessment
- Risk Management Strategy

#### 2. PROTECT (PR)

- Identity Management and Access Control
- Awareness and Training
- Data Security
- Information Protection Processes
- Maintenance
- Protective Technology

#### 3. DETECT (DE)

- Anomalies and Events
- Security Continuous Monitoring
- Detection Processes

#### 4. RESPOND (RS)

- Response Planning
- Communications
- Analysis
- Mitigation
- Improvements

#### 5. RECOVER (RC)

- Recovery Planning
- Improvements
- Communications

### Implementation Tiers

Tier 1: Partial - Risk management practices are not formalized

Tier 2: Risk Informed - Risk management practices are approved

Tier 3: Repeatable - Risk management practices are formally approved and expressed as policy

Tier 4: Adaptive - Organization adapts its cybersecurity practices based on lessons learned

### Framework Profiles

Current Profile: Current state of cybersecurity activities

Target Profile: Desired cybersecurity outcomes