CIS Center for Internet Security®

MS-ISAC® Multi-State Information Sharing & Analysis Center®

NIST Cybersecurity Framework

Policy Template Guide

Contents

Introduction

The Multi-State Information Sharing & Analysis Center (MS-ISAC) is offering this guide to participants of the Nationwide Cybersecurity Review (NCSR) and MS-ISAC members, as a resource to assist with the application and advancement of cybersecurity policies.

The policy templates are provided courtesy of the State of New York and the State of California. The templates can be customized and used as an outline of an organizational policy, with additional details to be added by the end user.

The NCSR question set represents the National Institute of Standards and Technology Cybersecurity Framework (NIST CSF). This guide gives the correlation between 49 of the NIST CSF subcategories, and applicable policy and standard templates. A NIST subcategory is represented by text, such as "ID.AM-5." This represents the NIST function of Identify and the category of Asset Management.

For additional information on services provided by the Multi-State Information Sharing & Analysis Center (MS-ISAC), please refer to the following page: https://www.cisecurity.org/ms-isac/services/. These policy templates are also mapped to the resources MS-ISAC and CIS provide, open source resources, and free FedVTE training: https://www.cisecurity.org/wp-content/uploads/2019/11/Cybersecurity-Resources-Guide.pdf.

Disclaimer: These policies may not reference the most recent applicable NIST revision, however may be used as a baseline template for end users. These policy templates are not to be used for profit or monetary gain by any organization.

Identify

Identify: Asset Management (ID.AM)

ID.AM-1   **Physical devices and systems within the organization are inventoried.**

Acceptable Use of Information Technology Resource Policy
Access Control Policy
Account Management/Access Control Standard
Identification and Authentication Policy
Information Security Policy
Security Assessment and Authorization Policy
Security Awareness and Training Policy

ID.AM-2   **Software platforms and applications within the organization are inventoried.**

Acceptable Use of Information Technology Resource Policy
Access Control Policy
Account Management/Access Control Standard
Identification and Authentication Policy
Information Security Policy
Security Assessment and Authorization Policy
Security Awareness and Training Policy

ID.AM-4   **External information systems are catalogued.**

System and Communications Protection Policy

ID.AM-5   **Resources (e.g., hardware, devices, data, time, and software) are prioritized based on their classification, criticality, and business value).**

Information Classification Standard
Information Security Policy

ID.AM-6   **Cybersecurity roles and responsibilities for the entire workforces and third-party stakeholders (e.g. suppliers, customers, partners) are established.**

Acceptable Use of Information Technology Resource Policy
Information Security Policy
Security Awareness and Training Policy

Identify: Risk Management Strategy (ID.RM)

ID.RM-1   **Risk management processes are established, managed, and agreed to by organizational stakeholders.**

Information Security Policy
Information Security Risk Management Standard
Risk Assessment Policy

Identify: Supply Chain Risk Management (ID.SC)

ID.SC-2   **Suppliers and third-party partners of information systems, components, and services are identified, prioritized, and assessed using a cyber supply chain risk assessment process.**

Identification and Authentication Policy
Security Assessment and Authorization Policy
Systems and Services Acquisition Policy

ID.SC-4 **Suppliers and third-party partners are routinely assessed using audits, test results, or other forms of evaluations to confirm they are meeting their contractual obligations.**

Identification and Authentication Policy
Security Assessment and Authorization Policy
Systems and Services Acquisition Policy

ID.SC-5 **Response and recovery planning and testing are conducted with suppliers and third-party providers.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy
Systems and Services Acquisition Policy

Protect

Protect: Identity Management and Access Control (PR.AC)

PR.AC-1   **Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes.**

Access Control Policy
Account Management/Access Control Standard
Authentication Tokens Standard
Configuration Management Policy
Identification and Authentication Policy
Sanitization Secure Disposal Standard
Secure Configuration Standard
Secure System Development Life Cycle Standard

PR.AC-3   **Remote access is managed.**

Remote Access Standard

PR.AC-4   **Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties.**

Access Control Policy
Account Management/Access Control Standard
Authentication Tokens Standard
Configuration Management Policy
Identification and Authentication Policy
Sanitization Secure Disposal Standard
Secure Configuration Standard
Secure System Development Life Cycle Standard

PR.AC-5   **Network integrity is protected (e.g., network segregation, network segmentation).**

802.11 Wireless Network Security Standard
Mobile Device Security
System and Information Integrity Policy

Protect: Awareness and Training (PR.AT)

PR.AT-1   **All users are informed and trained.**

Acceptable Use of Information Technology Resources Policy
Information Security Policy
Personnel Security Policy
Physical and Environmental Protection Policy
Security Awareness and Training Policy

Protect: Data Security (PR.DS)

PR.DS-1   **Data-at-rest is protected**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Encryption Standard
Incident Response Policy
Information Security Policy
Maintenance Policy
Media Protection Policy
Mobile Device Security
Patch Management Standard

PR.DS-2 **Data-in-transit is protected.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Encryption Standard
Incident Response Policy
Information Security Policy
Maintenance Policy
Media Protection Policy
Mobile Device Security
Patch Management Standard

PR.DS-3 **Assets are formally managed throughout removal, transfers, and disposition.**

Access Control Policy
Account Management/Access Control Standard
Authentication Tokens Standard
Configuration Management Policy
Identification and Authentication Policy
Sanitization Secure Disposal Standard
Secure Configuration Standard
Secure System Development Life Cycle Standard

PR.DS-8 **Integrity checking mechanisms are used to verify hardware integrity.**

System and Information Integrity Policy

Protect: Information Protection Processes and Procedures (PR.IP)

PR.IP-1 **A baseline configuration of information technology/industrial control systems is created and maintained incorporating security principles (e.g. concept of least functionality).**

Access Control Policy
Account Management/Access Control Standard
Authentication Tokens Standard
Configuration Management Policy
Identification and Authentication Policy
Sanitization Secure Disposal Standard
Secure Configuration Standard
Secure System Development Life Cycle Standard

PR.IP-4 **Backups of information are conducted, maintained, and tested.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Encryption Standard
Incident Response Policy
Information Security Policy
Maintenance Policy
Media Protection Policy
Mobile Device Security
Patch Management Standard

PR.IP-6 **Data is destroyed according to policy.**

Maintenance Policy
Media Protection Policy
Sanitization Secure Disposal Standard

PR.IP-9   **Response plans (Incident Response and Business Continuity) and recovery plans (Incident Recovery and Disaster Recovery) are in place and managed.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy
Planning Policy

PR.IP-10   **Response and recovery plans are tested.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy
Planning Policy

Protect: Maintenance (PR.MA)

PR.MA-2   **Remote maintenance of organizational assets is approved, logged, and performed in a manner that prevents unauthorized access.**

Maintenance Policy
Remote Access Standard
Security Logging Standard

Protect: Protective Technology (PR.PT)

PR.PT-1   **Audit/log records are determined, documented, implemented, and reviewed in accordance with policy.**

Access Control Policy
Account Management/Access Control Standard
Authentication Tokens Standard
Configuration Management Policy
Identification and Authentication Policy
Sanitization Secure Disposal Standard
Secure Configuration Standard
Secure System Development Life Cycle Standard
Security Logging Standard

PR.PT-2   **Removable media is protected and its use restricted according to policy.**

Acceptable Use of Technology Resources Policy
Media Protection Policy
Mobile Device Security

PR.PT-4   **Communications and control networks are protected.**

Encryption Standard
Information Security Policy
Maintenance Policy
Media Protection Policy
Mobile Device Security
System and Communications Protection Policy

Detect

Detect: Anomalies and Events (DE.AE)

DE.AE-3 **Event data are collected and correlated from multiple sources and sensors.**
Auditing and Accountability Standard
Security Logging Standard
System and Information Integrity Policy
Vulnerability Scanning Standard

Detect: Security Continuous Monitoring (DE.CM)

DE.CM-1 **The network is monitored to detect potential cybersecurity events.**
Encryption Standard
Information Security Policy
Maintenance Policy
Media Protection Policy
Mobile Device Security
Patch Management Standard
Security Assessment and Authorization Policy
Vulnerability Scanning Standard

DE.CM-4 **Malicious code is detected.**
Auditing and Accountability Standard
Secure Coding Standard
Security Logging Standard
System and Information Integrity Policy
Vulnerability Scanning Standard

DE.CM-7 **Monitoring for unauthorized personnel, connections, devices, and software is performed.**
Auditing and Accountability Standard
Security Logging Standard
System and Information Integrity Policy
Vulnerability Scanning Standard

Detect: Detection Processes (DE.DP)

DE.DP-1 **Roles and responsibilities for detection are well defined to ensure accountability.**
Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy
Information Security Policy

DE.DP-4 **Event detection information is communicated.**
Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy
Information Security Policy

Respond

Respond: Response Planning (RS.RP)

RS.RP-1   **Response plan is executed during or after an event.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy
Planning Policy

Respond: Communications (RS.CO)

RS.CO-1   **Personnel know their roles and order of operations when a response is needed.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RS.CO-2   **Incidents are reported consistent with established criteria.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RS.CO-3   **Information is shared consistent with response plans.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RS.CO-4 Coordination with stakeholders occurs consistent with response plans

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RS.CO-5 Voluntary information sharing occurs with external stakeholders to achieve broader cybersecurity situational awareness.

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

Respond: Analysis (RS.AN)

RS.AN-4 Incidents are categorized consistent with response plans.

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

Respond: Improvements (RS.IM)

RS.IM-1 Response plans incorporate lessons learned.

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RS.IM-2 Response strategies are updated.

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

Recover

Recover: **Recovery Planning** (RC.RP)

RC.RP-1   **Recovery plan is executed during or after a cybersecurity incident.**

Computer Security Threat Response Policy
Contingency Planning Policy
Cyber Incident Response Standard
Incident Response Policy

Recover: **Improvements** (RC.IM)

RC.IM-1   **Recovery plans incorporate lessons learned.**

Computer Security Threat Response Policy
Contingency Planning Policy
Cyber Incident Response Standard
Incident Response Policy

RC.IM-2   **Recovery strategies are updated.**

Computer Security Threat Response Policy
Contingency Planning Policy
Cyber Incident Response Standard
Incident Response Policy

Recover: **Communications** (RC.CO)

RC.CO-1   **Public relations are managed.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RC.CO-2   **Reputation is repaired after an incident.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

RC.CO-3   **Recovery activities are communicated to internal and external stakeholders as well as executive and management teams.**

Computer Security Threat Response Policy
Cyber Incident Response Standard
Incident Response Policy

CIS Center for Internet Security®

The Center for Internet Security, Inc. (CIS®) makes the connected world a safer place for people, businesses, and governments through our core competencies of collaboration and innovation. We are a community-driven nonprofit, responsible for the CIS Critical Security Controls® and CIS Benchmarks™, globally recognized best practices for securing IT systems and data. We lead a global community of IT professionals to continuously evolve these standards and provide products and services to proactively safeguard against emerging threats. Our CIS Hardened Images® provide secure, on-demand, scalable computing environments in the cloud.

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