

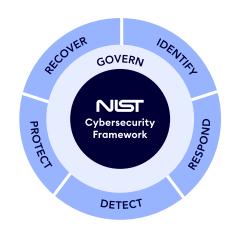
NIST 2.0

Framework Checklist



The NIST Cybersecurity Framework (CSF) 2.0 is an updated version of NIST Cybersecurity Framework (NIST CSF), which was released in 2023. All versions of NIST aim to grant organizations a flexible set of guidelines to reduce risk and improve security posture. NIST 1.0 was introduced in 2014 and its update, NIST 1.1 was released in 2018, with a stronger focus on risk management in the supply chain, among other issues. Both have been widely adopted and have been instrumental in helping organizations build strong security programs. While it's not mandatory, in some cases, compliance with NIST guidelines may be required by law or regulation, such as in the case of federal agencies, or by contractual obligations with customers or partners

NIST 2.0 was officially released in 2024 and has a newly added Govern function, to ensure the framework keeps pace with the cybersecurity challenges organizations face today. The idea behind this function, which was partially present in previous versions but has now been formalized into its own "step", is to help organizations align their cybersecurity efforts with business objectives. This is accomplished by providing IT and security teams with the tools to design security strategies driven by risk priorities, expand organizational risk awareness and responsibility, and develop compelling justifications for additional program resources.



Steps for Creating & Using a CSF Organizational Profile

- 1. Scope the organizational profile.
- 2. Gather needed information.
- 3. Create the organizational profile.
- 4. Analyze gops and create an action plan.
- 5. Implement action plan and update profile.

...Repeat

GOVERNANCE (GV) - New in NIST 2.0

Cybe	ersecurity Governance Structure (GV.ST)
	Establish governance structure with defined roles and responsibilities
	Ensure executive-level oversight of cybersecurity program
	Create governance committees with appropriate representation
Cybe	ersecurity Strategy (GV.SG)
	Develop comprehensive cybersecurity strategy aligned with business objectives
	Establish strategic cybersecurity goals and objectives
	Allocate resources according to strategic priorities
Risk	Management Program (GV.RM)
	Implement enterprise-wide risk management program
	Define risk appetite and tolerance levels
	Establish risk assessment methodology
Com	pliance and Obligations (GV.CO)
	Identify all applicable regulatory requirements
	Establish compliance monitoring and reporting processes
	Maintain documentation of compliance activities
IDE	NTIFY (ID)
Risk	Management Strategy (ID.RM)
	Establish organizational risk management processes
	Determine risk tolerance
	Document risk management strategy



Asset Management (ID.AM)			
	Inventory all physical devices and systems		
	Inventory software platforms and applications		
	Map communication and data flows		
	Catalog external information systems		
	Prioritize resources based on classification and criticality		
Busiı	ness Environment (ID.BE)		
	Identify and prioritize critical business functions		
	Document dependencies and critical functions for service delivery		
	Establish resilience requirements for critical functions		
Gove	ernance (ID.GV)		
	Establish and communicate cybersecurity policies		
	Align cybersecurity roles and responsibilities		
	Understand legal and regulatory requirements		
	Govern and manage cybersecurity risks		
Risk	Assessment (ID.RA)		
	Identify and document asset vulnerabilities		
	Collect and evaluate threat intelligence		
	Identify potential business impacts and likelihoods		
	Determine risk responses based on risk factors		
	Update risk assessment processes regularly		
Supp	oly Chain Risk Management (ID.SC)		
	Identify, prioritize, and assess suppliers and partners		
	Implement supply chain risk management processes		
	Include cybersecurity requirements in contracts		
	Assess suppliers and third-party partners regularly		

PROTECT (PR)

Ident	tity Management & Access Control (PR.AC)		
	Establish identity management for users and devices		
	Manage and protect physical and remote access		
	Implement least privilege and separation of duties		
	Protect network integrity through segregation		
Awareness and Training (PR.AT)			
	Conduct cybersecurity awareness training		
	Ensure users understand roles and responsibilities		
	Provide specialized cybersecurity training for specific roles		
	Educate senior executives and third parties on their responsibilities		
Data	Security (PR.DS)		
	Protect data-at-rest, in-transit, and in-use		
	Implement data security controls (encryption, integrity checking)		
	Implement formal data destruction procedures		
	Ensure adequate capacity for system availability		
	Implement data leak protection mechanisms		
Infor	mation Protection Processes and Procedures (PR.IP)		
	Create and maintain baseline configurations		
	Implement system development life cycle		
	Establish configuration change control processes		
	Perform regular backups		
	Establish and test incident response and business continuity plans		
	Update response and recovery plans based on lessons learned		
Main	tenance (PR.MA)		
	Perform and log maintenance activities		
	Approve and control remote maintenance activities		



Prot	Protective Technology (PR.PT)		
	Implement audit/log records		
	Protect removable media		
	Configure systems according to security principles		
	Implement communications and control network protection		
DE	TECT (DE)		
Ano	omalies and Events (DE.AE)		
	Establish baseline network operations and data flows		
	Analyze detected events to understand attack targets and methods		
	Aggregate and correlate event data from multiple sources		
	Determine event impact and thresholds for action		
Seci	urity Continuous Monitoring (DE.CM)		
	Monitor networks, physical environment, and personnel activity		
	Perform vulnerability scans		
	Deploy monitoring systems at strategic locations		
	Monitor for unauthorized devices, software, and code		
	Monitor for unauthorized external service provider activity		
Det	ection Processes (DE.DP)		
	Define detection process roles and responsibilities		
	Ensure detection activities comply with requirements		
	Test detection processes regularly		
	Communicate detection information to appropriate parties		
	Continuously improve detection processes		



RESPOND (RS)

Response Planning (RS.RP)		
	Execute and maintain response plan during incidents	
Com	munications (RS.CO)	
	Establish personnel for response coordination	
	Report incidents according to established criteria	
	Share incident information consistent with response plans	
	Coordinate with stakeholders according to response plans	
	Share incident information voluntarily with external stakeholders	
Anal	ysis (RS.AN)	
	Investigate notifications from detection systems	
	Understand the impact of incidents	
	Perform forensics analysis	
	Categorize incidents according to response plans	
Miti	gation (RS.MI)	
	Contain incidents to minimize impact	
	Mitigate incidents to prevent expansion	
	Document newly identified vulnerabilities	
Improvements (RS.IM)		
	Incorporate lessons learned into response plans	
	Update response strategies based on lessons learned	

RECOVER (RC)

Recovery Planning (RC.RP)		
	Execute and maintain recovery plan during incidents	
Impr	ovements (RC.IM)	
	Incorporate lessons learned into recovery plans	
	Update recovery strategies based on lessons learned	
Com	munications (RC.CO)	
	Manage public relations during and after incidents	
	Repair reputation after incidents	
	Communicate recovery activities to stakeholders	
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	Manage public relations during and after incidents	
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This checklist provides a comprehensive framework for implementing NIST CSF 2.0 in your organization, although you may need to adapt it to your specific industry, size, and regulatory requirements.

NIST CSF 2.0 is a comprehensive best practice-based approach to managing cyber risk and XM Cyber makes it easy and effective to communicate alignment to stakeholders and auditors.

Want to find out how XM Cyber can help your organization get started with NIST 2?

Get a demo today!



XM Cyber is a leader in hybrid cloud exposure management that's changing the way organizations approach cyber risk. XM Cyber transforms exposure management by demonstrating how attackers leverage and combine misconfigurations, vulnerabilities, identity exposures, and more, across AWS, Azure, GCP and on-prem environments to compromise critical assets. With XM Cyber, you can see all the ways attackers might go, and all the best ways to stop them, pinpointing where to remediate exposures with a fraction of the effort. Founded by top executives from the Israeli cyber intelligence community, XM Cyber has offices in North America, Europe, Asia Pacific and Israel.