

Solution brief

Mastering the NIST 2.0 cyber risk framework with Vulcan Cyber



VULCAN.

Introduction

The National Institute of Standards and Technology (NIST) [cyber security Framework 2.0](#) (CSF 2.0) represents a significant update aimed at helping organizations of all sizes and sectors manage and mitigate cyber security risks more effectively. Building upon the solid foundation of the original NIST cyber security Framework, CSF 2.0 introduces enhanced guidelines, practices, and compliance measures designed to address the complexities of modern cyber security challenges.

At Vulcan Cyber, we understand the importance of adapting to and incorporating the latest cyber security standards. Our commitment to aiding organizations in achieving and maintaining NIST CSF 2.0 compliance reflects our dedication to providing state-of-the-art cyber security solutions. By leveraging the comprehensive tools and services offered within the Vulcan Cyber platform, organizations can navigate the complexities of CSF 2.0, ensuring they not only meet but exceed the framework's robust cyber security standards.

Comparison between NIST CSF 2.0 and the original framework

The transition from the original NIST cyber security Framework to CSF 2.0 marks a significant evolution in the approach to cyber security risk management. While the original framework laid a strong foundation for cyber security practices, CSF 2.0 expands and refines these principles to address the changing dynamics of cyber threats and industry advancements. Here are some of the key differences and enhancements introduced in CSF 2.0:

- Updated guidelines: CSF 2.0 updates its cyber security guidelines to reflect current best practices and threat intelligence, offering organizations a more effective blueprint for managing cyber risks.
- Enhanced flexibility: Recognizing the diverse cyber security needs across different sectors, CSF 2.0 offers enhanced flexibility, allowing organizations to tailor the framework to their specific operational and risk management needs.
- Increased emphasis on privacy and supply chain risks: In response to the growing concerns over data privacy and supply chain vulnerabilities, CSF 2.0 introduces new categories and subcategories focusing on these critical areas, ensuring comprehensive risk management strategies that encompass these evolving threats.
- Improved implementation tiers: CSF 2.0 refines the framework's implementation tiers, providing clearer guidance to organizations on progressing through different levels of cyber security maturity, thereby facilitating more strategic investment in cyber security practices.

- Broader international applicability: With the aim of fostering a global approach to cyber security, CSF 2.0 enhances its applicability across international borders, making it a versatile tool for global organizations seeking to standardize their cyber security practices.

Adopting or transitioning to NIST CSF 2.0 offers organizations a strategic advantage in managing cyber security risks. By aligning with the updated framework, businesses can not only protect themselves against the latest cyber threats but also demonstrate a strong commitment to cyber security excellence to

Overview of NIST CSF 2.0

NIST Cyber Security Framework 2.0 (CSF 2.0) is designed to provide organizations across all sectors with a comprehensive approach to manage and mitigate cyber security risks in a dynamic and increasingly threatening digital landscape.

This updated version builds upon the principles and guidelines outlined in the original framework, incorporating the latest in cyber security best practices and addressing new challenges that have emerged in the cyber security domain.

Goals of CSF 2.0

CSF 2.0 aims to achieve the following:

- Enhance the ability of organizations to identify, assess, and manage cyber security risks.
- Foster improved communication on cyber security risks within organizations and with external partners.
- Offer a more adaptable and flexible framework to cater to the varied needs and risk profiles of different organizations.

Structure of CSF 2.0

The framework is organized into six key functions that represent the lifecycle of managing cyber security risks:

Govern

Establishes the overall approach to cyber security risk management across the organization.

Identify

Focuses on developing an organizational understanding of managing cyber security risks to systems, assets, data, and capabilities.

Protect

Outlines safeguards to ensure delivery of critical infrastructure services.

Detect

Defines the appropriate activities to identify the occurrence of a cyber security event.

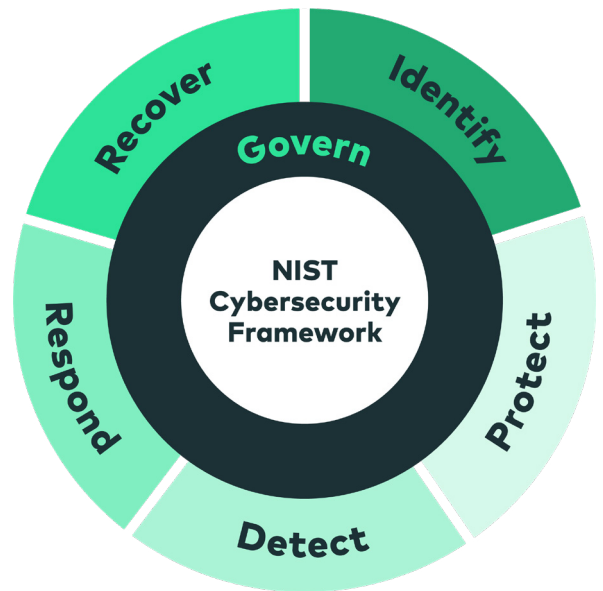
Respond

Details the actions regarding a detected cyber security incident.

Recover

Identifies activities to maintain plans for resilience and to restore any capabilities or services impaired due to a cyber security incident.

Through its structured and strategic approach, CSF 2.0 enables organizations not only to address and manage current cyber security risks but also to anticipate and prepare for future challenges.



How Vulcan Cyber supports NIST CSF 2.0 compliance

Vulcan Cyber stands as an indispensable partner on your path to NIST CSF 2.0 compliance. By offering a suite of features that dovetail with the framework's updated requirements, Vulcan Cyber plays a pivotal role in ensuring organizations meet and exceed NIST's comprehensive cyber security standards. Here's how Vulcan Cyber maps to key aspects of the NIST CSF 2.0:

Govern: Policy and strategy alignment

Vulcan Cyber supports the establishment and maintenance of a cyber security strategy that aligns with NIST CSF 2.0's "Govern" function. By facilitating an up-to-date inventory of digital assets, including hosts, applications, and cloud resources, organizations can effectively manage their cyber security posture. This inventory management is crucial for maintaining visibility and control over system components, aligning with the CSF's emphasis on governance and risk management strategies.

Vulcan Cyber further bolsters the "govern" function with robust reporting capabilities, tracking vulnerability management programs in detail to enable fast closure of potential security gaps. The platform's continuous risk monitoring tools, including Security Posture Rating (SPR), SLA tracking and risk metrics, provide organizations with the insights needed to track and improve their security posture over time.

Identify: Comprehensive risk assessment

Our proactive vulnerability management approach addresses the "Identify" function by assessing and mitigating risks associated with the digital supply chain and internal assets. Through dynamic threat intelligence capabilities, Vulcan enables continuous monitoring of the cyber threat environment, correlating the latest threats with known vulnerabilities to prioritize remediation efforts effectively.

Protect: Enhancing security measures

In line with the "Protect" function, Vulcan aids in the implementation of protective measures against identified vulnerabilities. This includes facilitating developers in performing threat modeling and vulnerability analyses during the development process, ensuring that security considerations are integrated early and throughout the system's lifecycle.

Detect: Advanced detection capabilities

Vulcan Cyber enriches the "Detect" function with its ability to continuously track and update the organization on new vulnerabilities. By correlating multiple asset sources and monitoring scanning coverage, Vulcan ensures that organizations have a comprehensive view of their vulnerability landscape.

Respond: Prioritized vulnerability response

Addressing the "Respond" function, Vulcan Cyber enables security teams to take swift, informed action on critical vulnerabilities through contextualized prioritization with the latest threat intelligence and asset business impact information. This ensures that responses are strategically focused on mitigating risks before they can be exploited, enhancing the organization's resilience against cyber attacks.

Recover: Robust reporting and risk monitoring

Vulcan Cyber supports this function through maintaining a realtime asset inventory to verify which recovery and restoration activities were completed successfully, alongside tracking associated risk.

By integrating Vulcan Cyber into your security strategy, organizations can navigate the complexities of NIST CSF 2.0 compliance with confidence. The platform's comprehensive coverage, from governance and risk assessment to detection, response, and recovery, ensures that your organization not only meets but exceeds the rigorous standards set forth in the NIST cyber security Framework 2.0.

Empowering your NIST compliance journey with Vulcan Cyber

Vulcan Cyber offers a comprehensive cyber risk management platform that connects seamlessly with your existing security tools. By centralizing vulnerability and risk management, Vulcan Cyber empowers organizations to consolidate their efforts and make more informed decisions about addressing vulnerabilities.

In today's dynamic threat landscape, aligning with established frameworks like the NIST Cybersecurity Framework is essential. The advanced features and capabilities of Vulcan Cyber align with NIST requirements and enhance the compliance process. By leveraging the Attack Path Graph and correlating scanning results, organizations can prioritize vulnerabilities effectively and streamline their remediation efforts, ultimately strengthening their cyber security posture and achieving NIST compliance with confidence.

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Start owning your risk today

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