

A Guide to become NIST Compliant

Zahra Sayed¹, Durriya Bandukwala², Ayaaz Idrisi³, Aarish Faki⁴, Er. Asadullah Shaikh⁵,
Sharique Shaikh⁶, Najib Baig Mirza⁷

Students, Department of Computer Engineering^{1,2,3,4}

Professor, Department of Computer Engineering⁵

Founders, CNCM LLC^{6,7}

M.H. Saboo Siddik College of Engineering, Mumbai, Maharashtra, India^{1,2,3,4,5}

Abstract: *The National Institute of Standards and Technology (NIST) develops cybersecurity standards, guidelines, best practices, and other tools to meet the needs of American business, government organizations, and the general public. Their work spans from giving businesses accurate information that they can utilize immediately to longer-term research that anticipates technology developments and future challenges. Moreover, the needs of American industry and the general public are what drive their cybersecurity endeavors. They collaborate closely with stakeholders to set priorities and ensure that our resources are focused on the most urgent issues they face. NIST also advances the management of privacy risks, some of which are directly connected to cybersecurity, and broadens our understanding of those risks. Among the main areas on which NIST contributes and focuses are cryptography, education and workforce, emerging technologies, risk management, identity and access management, measurements, privacy, trustworthy networks, and trustworthy platforms. This research paper aims to focus on discussing the various controls of the NIST. It also emphasizes on the processes to be followed by the federal agencies to ensure that they are NIST compliant.*

Keywords: Compliance, NIST 800-53, Automation, Cyber Security

REFERENCES

- [1]. "Cybersecurity framework," NIST, 01-Mar-2023. [Online]. Available: <https://www.nist.gov/cyberframework>. [Accessed: 14-Mar-2023].
- [2]. "CyberStrong: CyberSaint Cyber & IT Risk Management software," CyberStrong | CyberSaint Cyber & IT Risk Management Software. [Online]. Available: <https://www.cybersaint.io/cyberstrong>. [Accessed: 14-Mar-2023].
- [3]. "How to become Fedramp authorized," How to Become FedRAMP Authorized | FedRAMP.gov. [Online]. Available: <https://www.fedramp.gov/>. [Accessed: 14-Mar-2023].
- [4]. "HIPAA compliance and Cybersecurity Solutions," HIPAA One, 25-Jan-2023. [Online]. Available: <https://hipaaone.com/>. [Accessed: 14-Mar-2023].
- [5]. "Automated Soc 2, HIPAA, GDPR, Risk Management, & more | drata." [Online]. Available: <https://drata.com/>. [Accessed: 14-Mar-2023].
- [6]. "Automated Security & Compliance Software built for scale," Hyperproof, 02-Mar-2023. [Online]. Available: <https://hyperproof.io/>. [Accessed: 14-Mar-2023].
- [7]. "Cybersecurity & IT Risk and Compliance Software," CyberSaint. [Online]. Available: <https://www.cybersaint.io/>. [Accessed: 14-Mar-2023].