

## 1. Research and Overview of Frameworks

- **ISO 27001:**
  - An internationally recognized standard for information security management systems (ISMS).<sup>1</sup>
  - Provides a framework for establishing, implementing, maintaining, and continually improving an organization's ISMS.<sup>2</sup>
  - Key components: Information security policy, risk assessment and treatment, incident management, internal audits, and continual improvement.<sup>3</sup>
- **NIST Cybersecurity Framework:**
  - Developed by the National Institute of Standards and Technology (NIST).
  - Provides a voluntary, flexible, and risk-based approach to managing cybersecurity risk.<sup>4</sup>
  - Core functions: Identify, Protect, Detect, Respond, and Recover.
  - Focuses on aligning cybersecurity activities with business objectives.