

## Cybersecurity vs Information Security

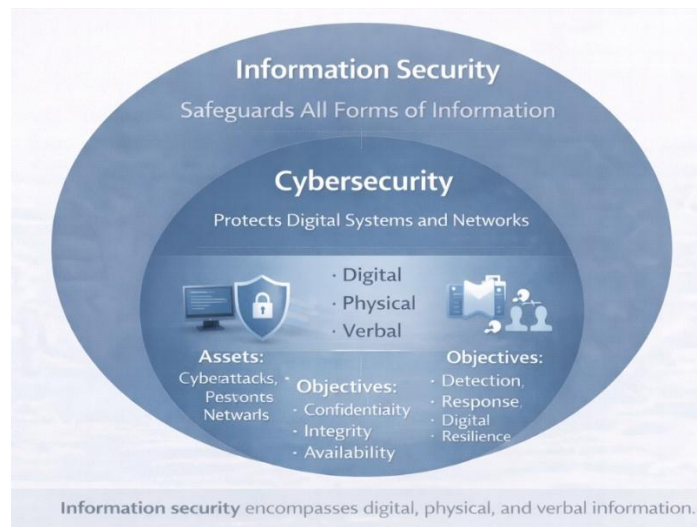
Cybersecurity and information security are closely related—but they are not interchangeable. Cybersecurity focuses on protecting **digital environments**: systems, networks, applications, and data connected to the Internet or internal networks. It addresses threats such as malware, ransomware, intrusions, and denial-of-service attacks, emphasizing detection, response, and digital resilience.

Information security, by contrast, focuses on protecting **information in all forms**—digital, physical, or verbal. Its objective is to preserve confidentiality, integrity, and availability regardless of where information resides or how it is transmitted.

For example, cybersecurity may protect a network from a ransomware attack using firewalls and intrusion detection systems. Information security also ensures that sensitive information stored in paper files, shared verbally, or archived for disposal is properly protected throughout its lifecycle.

Cybersecurity operates within the digital domain. Information security provides the umbrella discipline.

Both are essential—but without information security, cybersecurity alone leaves significant gaps in organizational protection.



*This topic is explored further in Section 1.5, **Cybersecurity vs Information Security**, in Chapter 1 of Volume 1 (Information Security Fundamentals) of the **Mastering Information Security** series.*