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8-2 Cyber Playbook

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Data Security



The *data security* knowledge area focuses on the security of data, demonstrating how data is protected and maintained as identified throughout the phases of the security triad: confidentiality, integrity, and availability. Data security also considers the roles, responsibilities, and accountability of organizational personnel. In addition to the physical and logical aspects of protecting data, who is held accountable for these protections being implemented and maintained. For the stewards of data, how is data best managed to prevent the loss of any phase of the security triad?

I chose **data security** because it plays an important role in application security. Applications are constantly handling sensitive information like user accounts, financial data, or medical records, and without strong data security practices, such information can be exposed through vulnerabilities. Things like encryption, access controls, and secure coding directly tie back to protecting the data that applications rely on. In my opinion, this makes data security one of the most valuable areas to focus on, since any weakness in how data is handled in an application can open the door for breaches, identity theft, or even bigger system compromises.