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CIS 438: Case Study 1:HIPAA, CIA, and Safeguards

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Introduction

- Exponential penetration of information technology in healthcare.
- Personally identifiable health records.
- Potential target of cyber criminals.
- Data breaches in healthcare institutions

Security Issues at BCBST

- Non-compliance with HIPAA act.
- Lack of physical access restriction.
- Data encoded but not encrypted.
- No privacy controls along with poor data segregation.

(Rose & Rose, 2014)

HIPAA Security Requirements

- Confidentiality.
- Integrity.
- Availability.
- Non-repudiation of data.
- Administrative and physical security measures.

(Huq, 2015)

Corrective Actions of BCBST

- Encryption of data stored in the system.
- Auditing of systems.
- Tightening of physical security.
- Training of employees on regular basis.

(Hsieh, 2014)

Safeguards Needed to Mitigate Security Risks

- Enterprise encryption key management system.
- Comprehensive key management policy.
- Security and privacy policies.
- Intrusion detection and prevention system.

(Cavanaugh, 2018)

Safeguards Needed to Mitigate Security Risks

- Logging and auditing of the logs.
- Network security.
- Employee trainings for improved and newly implemented security features.

(McMenamin, 2017)

Conclusion

- Data protection and privacy is responsibility of the collecting organization.
- Confidentiality, integrity, and availability must be ensured.
- Detailed logging and auditing is a crucial aspect of data security.

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