



SDM: Secure Data Management

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- Aim: Understand the principles, trends, and security challenges in modern data management. Get hands-on experience with the techniques and implementations.
- Contents:
 - Classical Access Control (Kerberos, etc.) and its shortcomings
 - Access Control in open environments: attribute-based encryption, proxy re-encryption, identity-based encryption
 - Secure Distributed Data Protection: blockchains, private data aggregation, digital rights management
 - Encrypted Databases: search over encrypted data
- Exam: 70% written exam + 30% assignments
- Period: Q1
- Prerequisite: Security and Cryptography (Q1)