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% (practical) assignment

• Period: Q1

• Prerequisite: Security and Cryptography (Q1)