Mindluster Platform

About the course Symmetric Key cryptography techniques

Symmetric Key cryptography, in this course offers an in-depth exploration of symmetric key cryptography, a foundational technique for secure communication and data protection. Learn how the same key is used for both encryption and decryption, ensuring data confidentiality. Discover the inner workings of widely-used algorithms like DES, AES, Triple DES, and Blowfish, and understand their applications in securing networks and data storage. Gain hands-on experience in implementing symmetric encryption using programming languages like Python and tools like OpenSSL. The course also covers key management challenges, best practices for secure key distribution, and comparisons with asymmetric cryptography. By the end, youâ€™ll have a strong grasp of symmetric key principles and their role in modern cybersecurity, making you well-equipped to design and implement secure systems.

Computer Science Category's Courses

Course Lesson(13)

Lesson 1 : **Symmetric Key Cryptography The Caesar Cipher**

Lesson 2 : **Symmetric Key Cryptography The Keyword Cipher**

Lesson 3 : **Symmetric Key Cryptography The Rail Fence Cipher**

Lesson 4 : **Symmetric Key Cryptography The XOR Cipher**

Lesson 5 : **Symmetric Key Cryptography Cryptographic Techniques**

Lesson 6 : **Asymmetric Key Cryptography**

Lesson 7 : **Digital Signatures and Digital Certificates**

Lesson 8 : **Asymmetric Key Cryptography The RSA Algorithm by Hand**

Lesson 9 : **Cryptocurrency Part One Money**

Lesson 10 : **Cryptocurrency Part Two Bitcoin Objectives**

Lesson 11 : **Cryptocurrency Part Three The Blockchain**

Lesson 12 : **Cryptocurrency Part Four Transactions and UTXOs**

Lesson 13 : **Cryptocurrency Part Five Transaction Validation**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees



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