

Practical Cryptography in .NET

Introduction



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Course Audience

.NET Developers

Securing Data in the
Enterprise

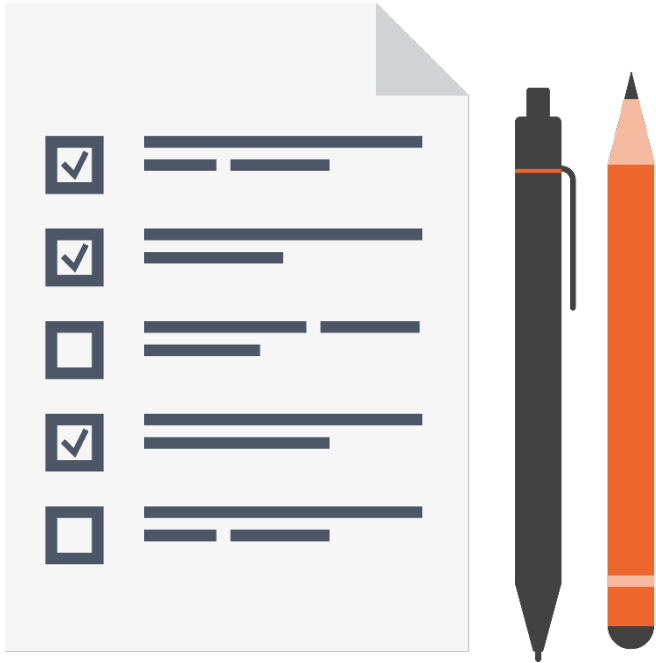
Theory and Practice of
Cryptography

What We Will Cover?



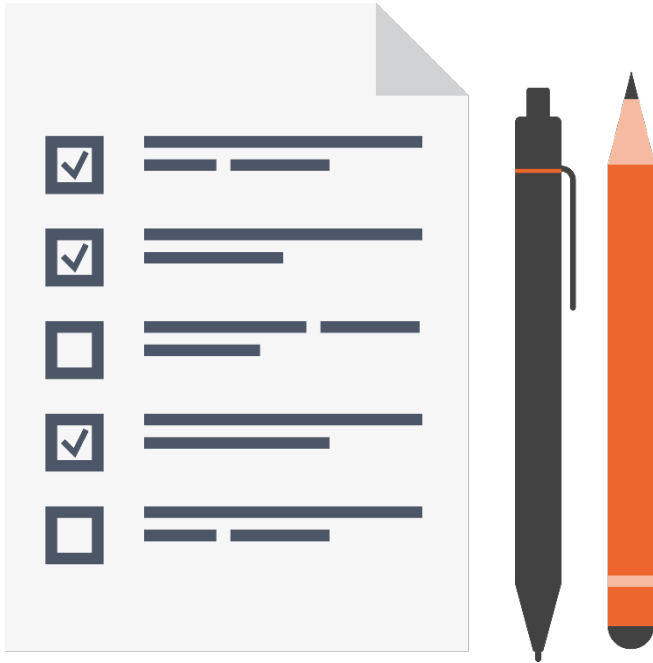
- Cryptographic Random Numbers
- Hashing Algorithms
- Secure Password Storage
- Symmetric Encryption
- Asymmetric Encryption
- Hybrid Encryption

What We Will Cover?



- Digital Signatures
- Secure Strings in .NET

Demo Projects

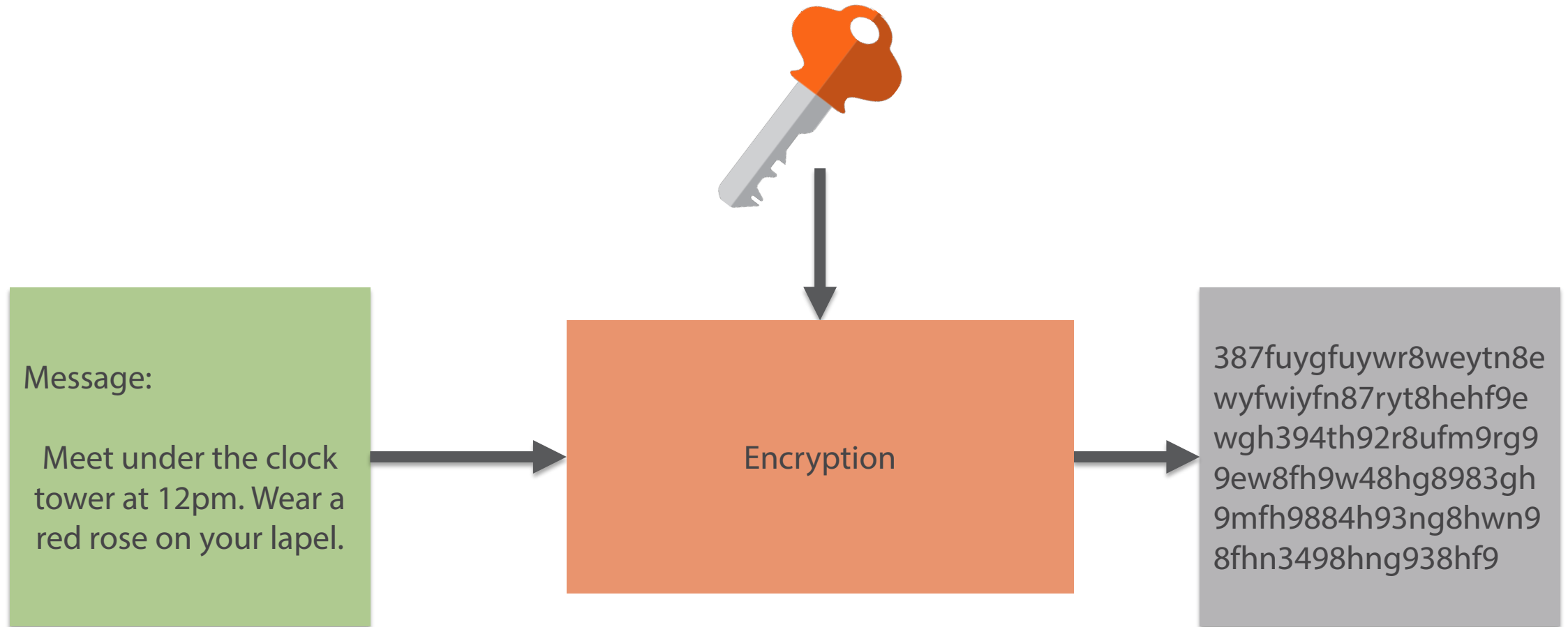


- All code written in Visual Studio 2013
- All code written in C#
- `System.Security.Cryptography`

Background Information

Background Information Before We Start

What Is Cryptography?



Security Concepts

Confidentiality

Integrity

Non-Repudiation

Security Concepts

Authentication

Why Cryptography Is Important?



- Increased reliance on Cryptography as more people use the internet
- Essential to the growth of the internet

Examples of Cryptography in Use

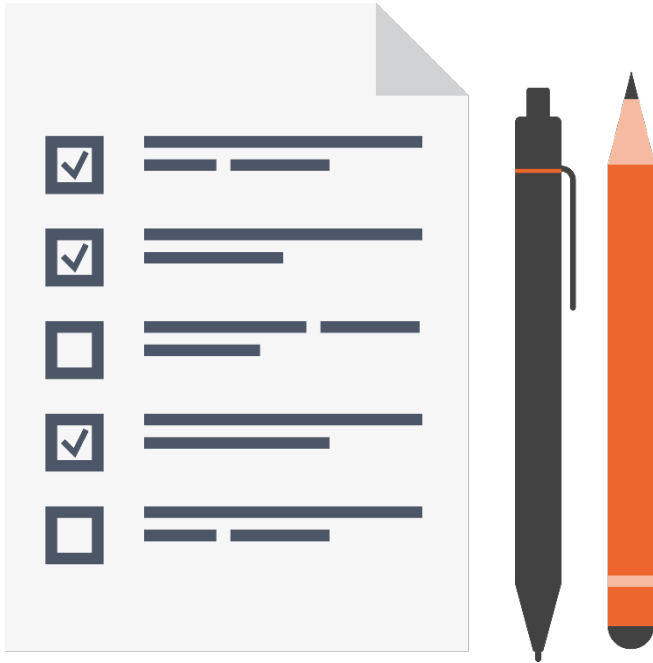


Module Summary



- Course audience
- What we will cover
- Demo projects
- What is Cryptography?
- Security Concepts

Module Summary



- Why Cryptography is important?
- Examples of Cryptography in use