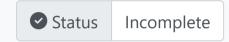# The Use of Cryptography

Task

40m

Status	Incomplete

Introduction

For this task, you will be researching and developing examples of daily use of cryptography. As you begin your journey in cyber security, understanding the principles and applications of cryptography is crucial to protecting sensitive information from unauthorized access or modification. By researching and developing examples of symmetric and asymmetric cryptography in daily use, you will not only deepen your knowledge of these cryptographic methods, but also apply critical thinking skills in analyzing their strengths and limitations in real-world scenarios.
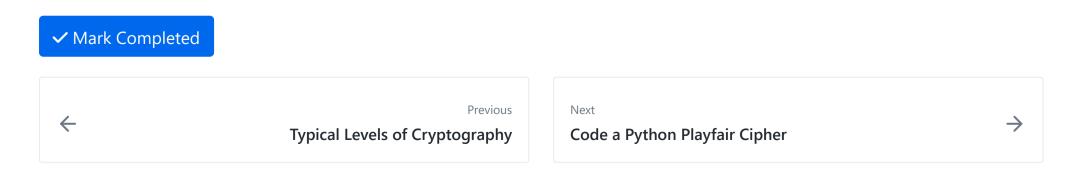
This task will help you develop essential skills and knowledge for your future career in cybersecurity, where cryptographic techniques are essential tools for safeguarding data and ensuring the confidentiality, integrity, and availability of information in today's digital world.

Instructions

1. Research the concepts of symmetric and asymmetric cryptography, and the different methods and algorithms used in each.
2. Analyze at least three examples of daily use of symmetric or asymmetric cryptography. Your examples can come from any context, including personal and professional settings.
3. Consider the strengths and weaknesses of each cryptographic method in the context of the examples you've identified.
4. Develop a brief presentation to share your examples with your peers, including a critical analysis of the cryptographic method used and how it helps to protect information.
5. Your analysis should consider potential vulnerabilities, the feasibility of attacks, and potential countermeasures.

> 👉 Once the presentation is ready, you may share it with your peers on Discord, or save it to your PKM. As you share on Discord, be prepared to answer questions and engage in a discussion with your peers about the different uses and applications of cryptography, as well as the strengths and limitations of different cryptographic methods.

✔ Mark Completed

How well did this activity help you to understand the content?

Let us know how we're doing

☆ ☆ ☆ ☆ ☆

W06D5 📅

Fri Aug 2

> **Outline & Notes** (1)

> **Lectures** (1)

⌄ **Work** (10)

7 hrs

📖 Cryptanalysis

⚡ The Use of the Historical vs. Modern Encryption

? Cryptanalysis Quiz

📖 Cryptography Features and Objectives

📖 Typical Levels of Cryptography

⚡ The Use of Cryptography

📖 Code a Python Playfair Cipher

⚡ Code a Python Playfair Cipher

📖 Cryptographic Encryption

📖 Cryptographic Methods with GPG

W06D5 Schedule »