

# Ethical Hacking: Cryptography

---

## Clarifying Cryptography Concepts



### **Dale Meredith**

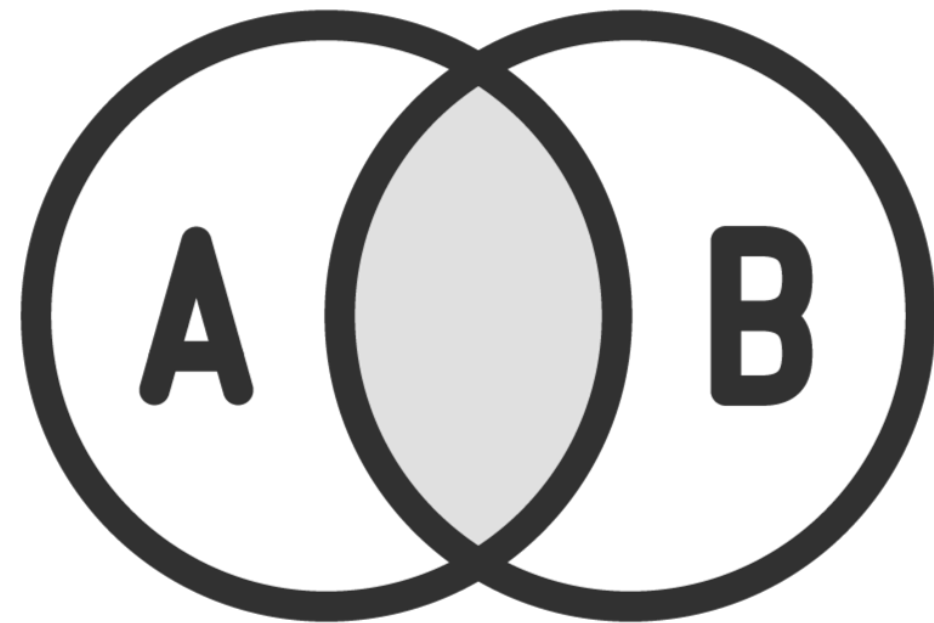
MCT | CEI | CEH | MCSA | MCSE  
Cyber Security Expert

[dalemeredith.com](http://dalemeredith.com) | Twitter: @dalemeredith | LinkedIn: dalemeredith

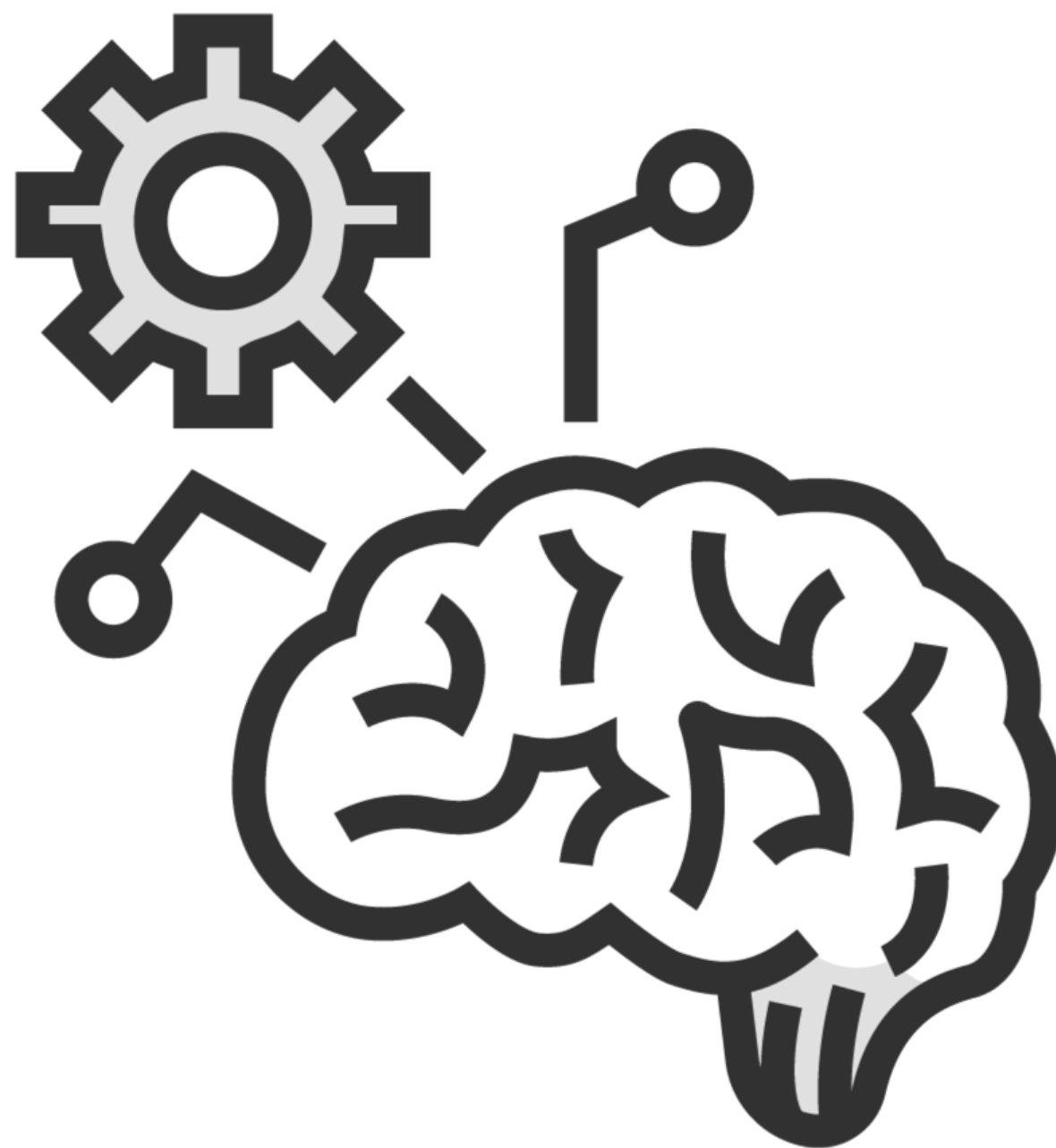
# Ethical Hacking Series



# The Method behind My Madness



# The Method behind My Madness



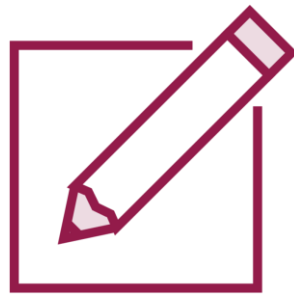
# CEH Exam Study Tips

---

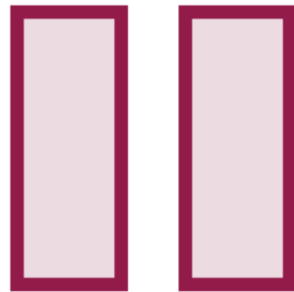
# Dale's Study Tips



**Study space**



**Take notes**

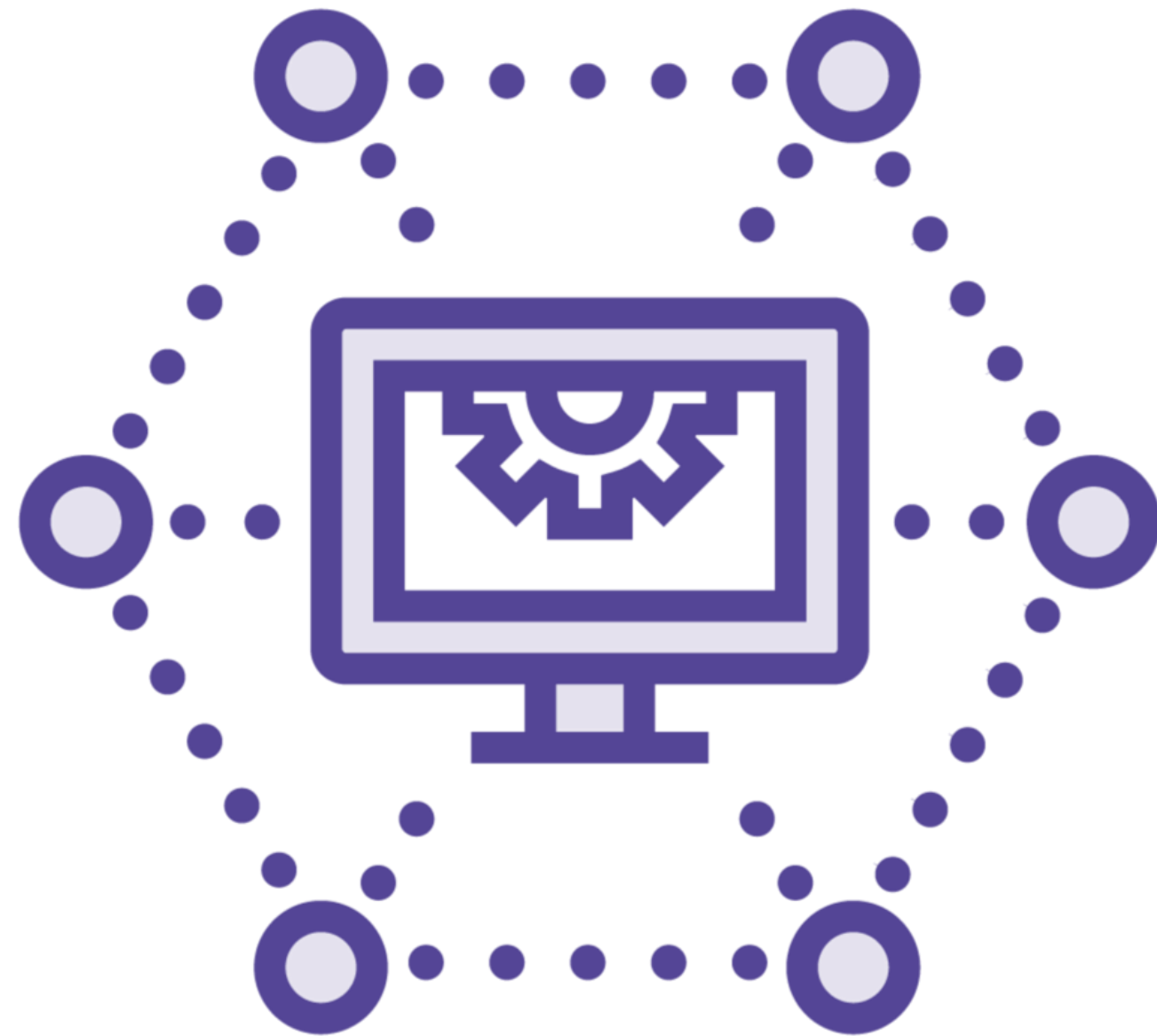


**Pause, think, repeat**



**Be kind and rewind**

# Dale's Study Tips



# Cryptography and Its Purpose

---

Encryption works. Properly implemented, strong crypto systems are one of the few things that you can rely on. Unfortunately, endpoint security is so terrifically weak that the NSA can frequently find ways around it.

**Edward Snowden**

# Cryptography

g C t p  
p a o  
y r h y  
r

**r**

**r**

**y**

**a**

**p**

**y**

**p**

**g**

**c**

**o**

**h**

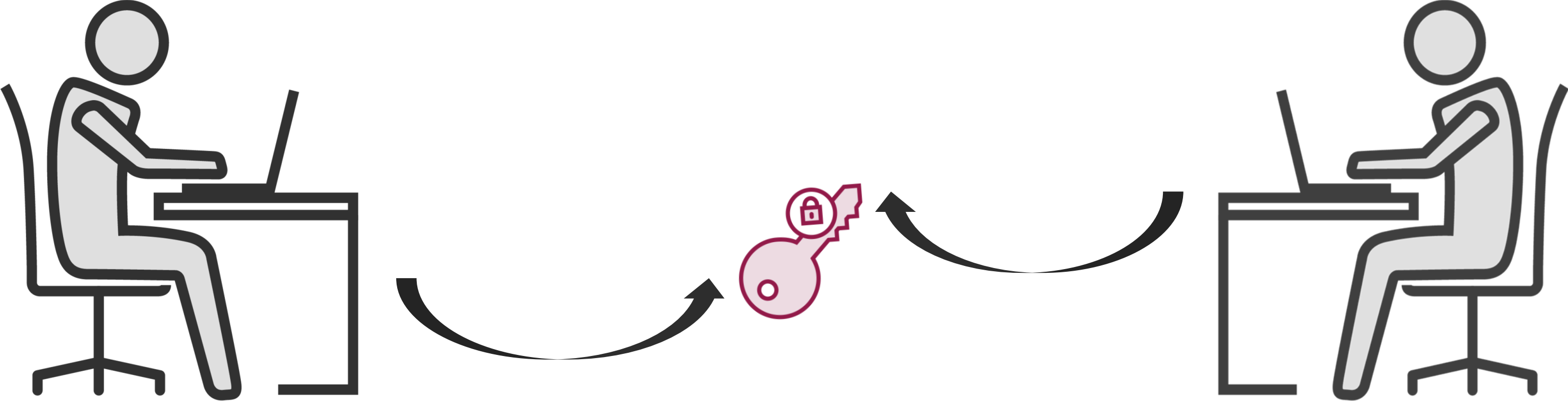
**t**

# Cryptography

# Ciphertext (cyphertext)

**A method of cryptography in which units of information, known as plaintext, are replaced by substitutions as part of an algorithm.**

# Encryption





**Non-repudiation**

**Authentication**

**Confidentiality**



**Data Encryption Standard (DES)**

**Advanced Encryption Standard (AES)**

**Rivest-Shamir-Adleman (RSA)**

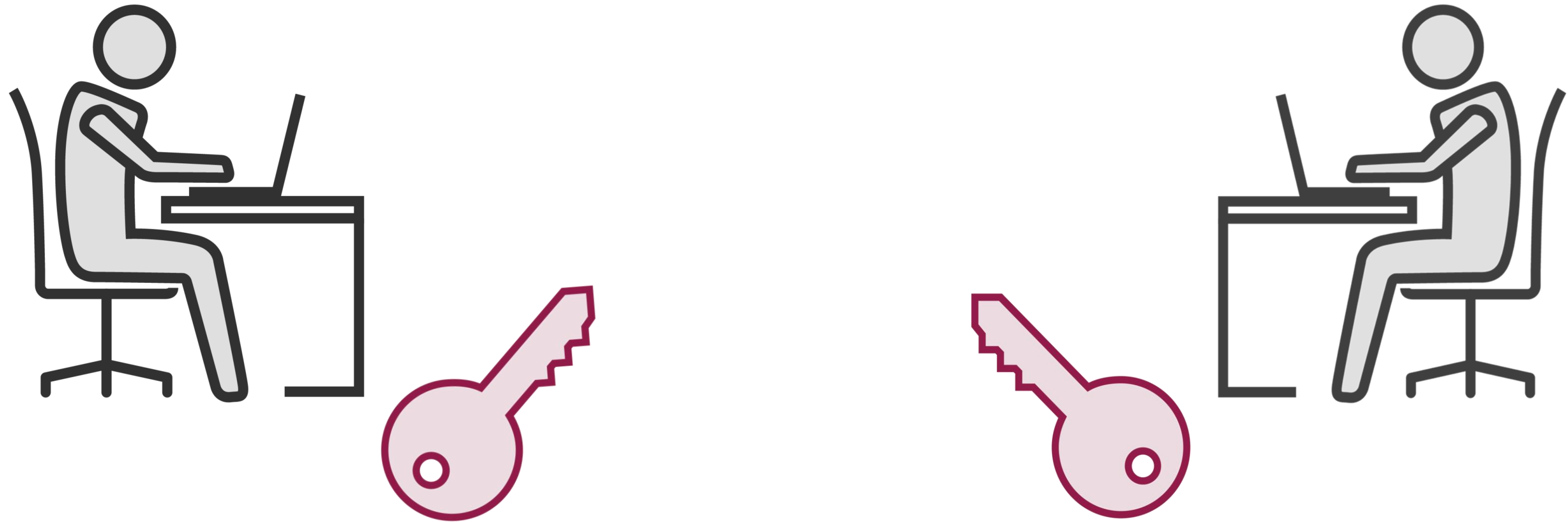
**Add B-roll from Story Block**

**Asset ID: SBV-346618710**

# Types of Cryptography

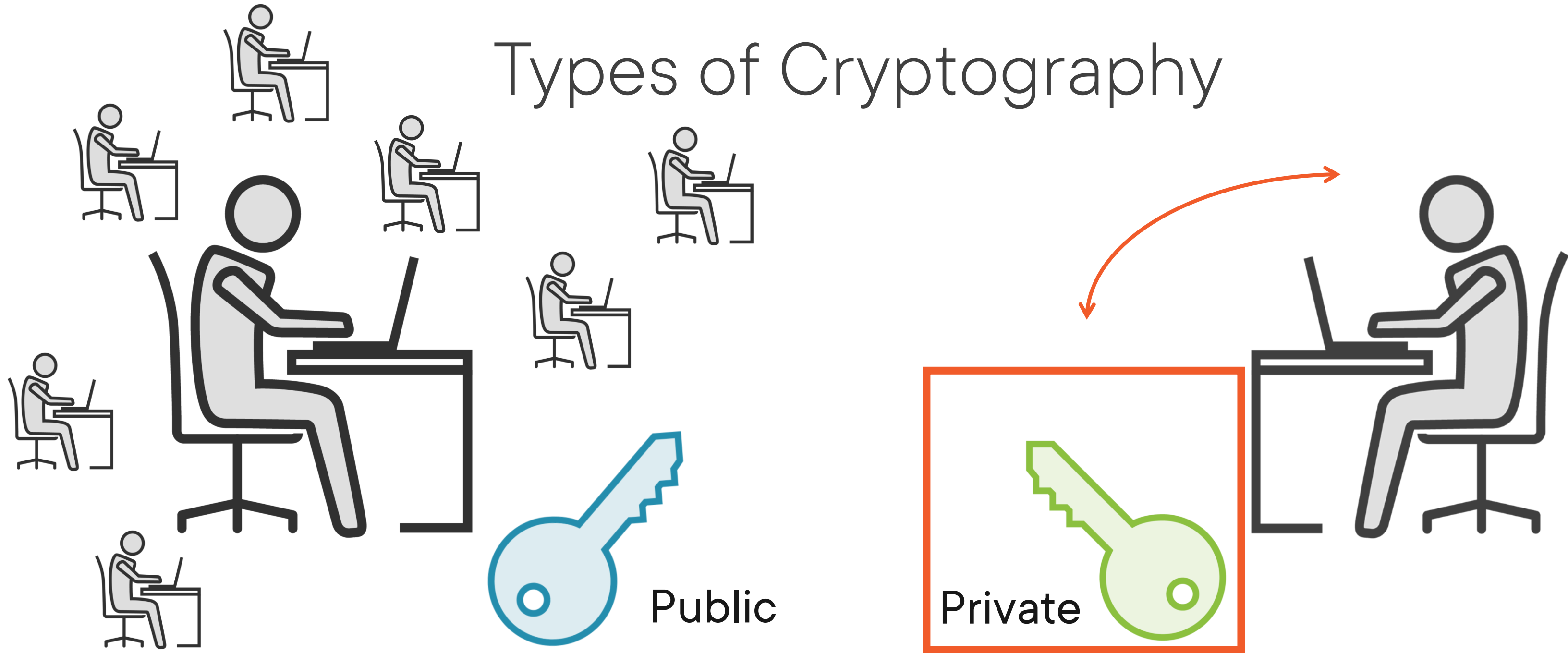
---

# Types of Cryptography



**Symmetric**

# Types of Cryptography



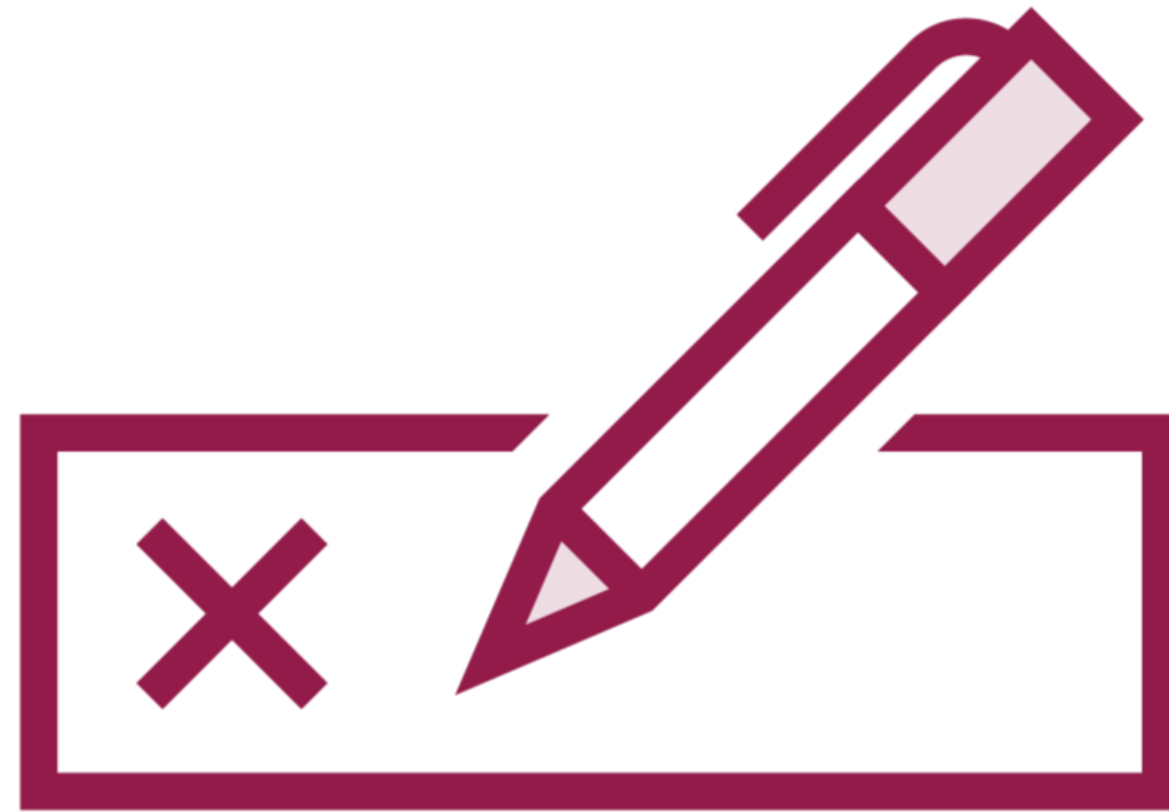
**Asymmetric**

# Types of Cryptography



**Asymmetric**

# Types of Cryptography



**Asymmetric**

# Types of Cryptography

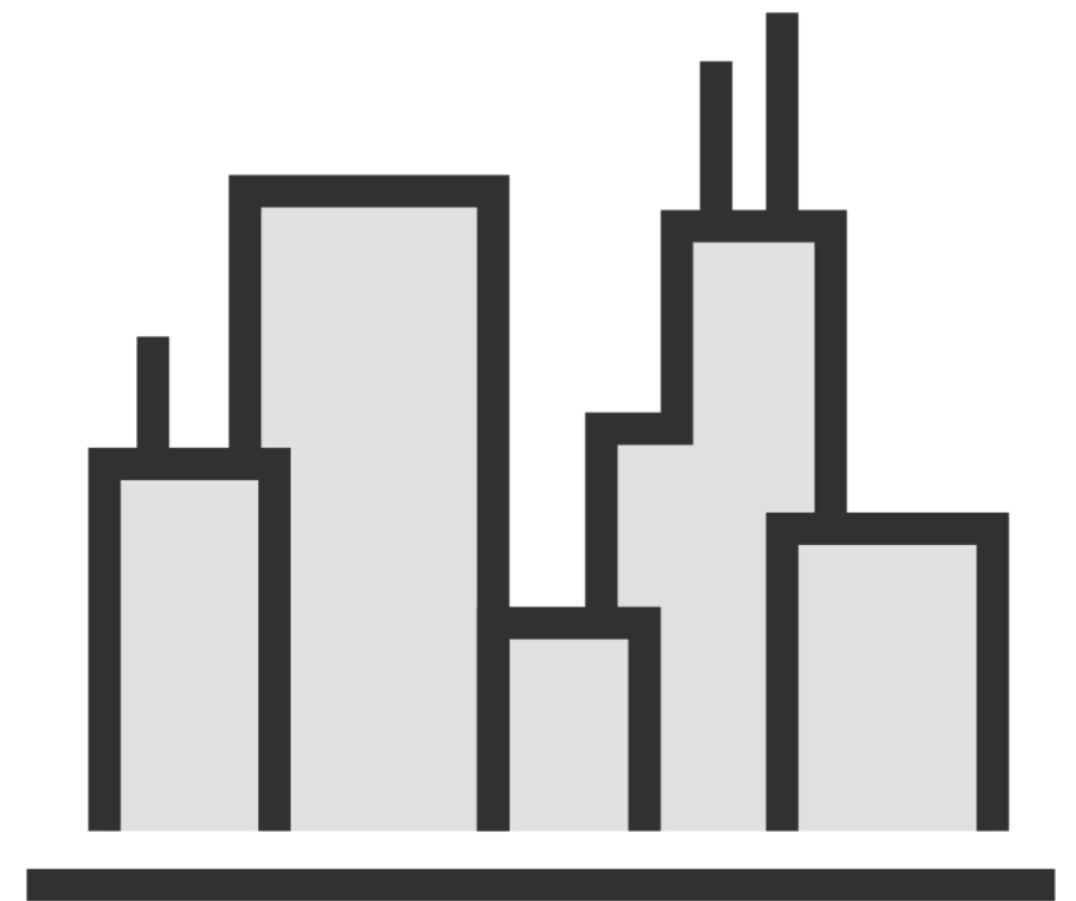
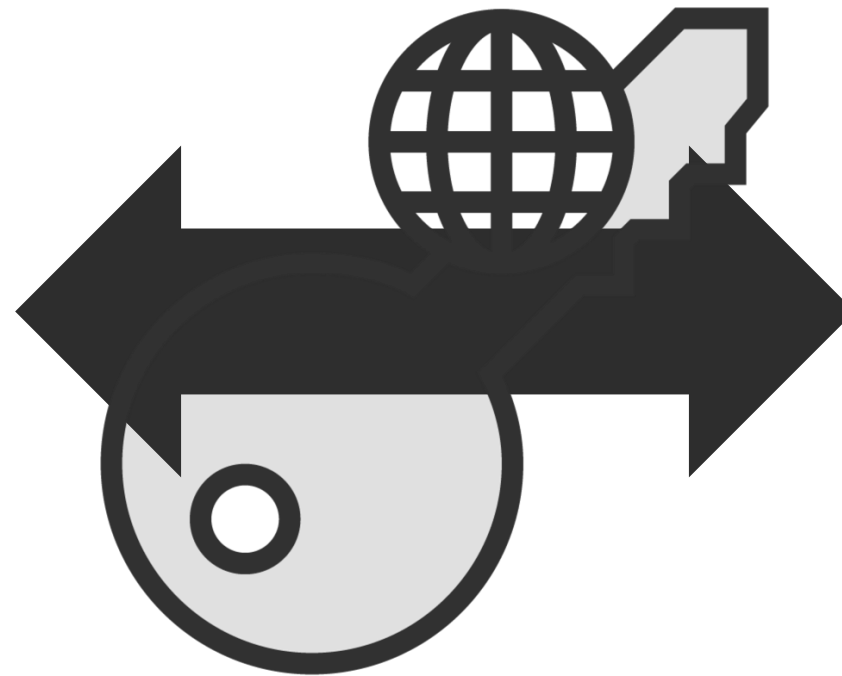


**Asymmetric**

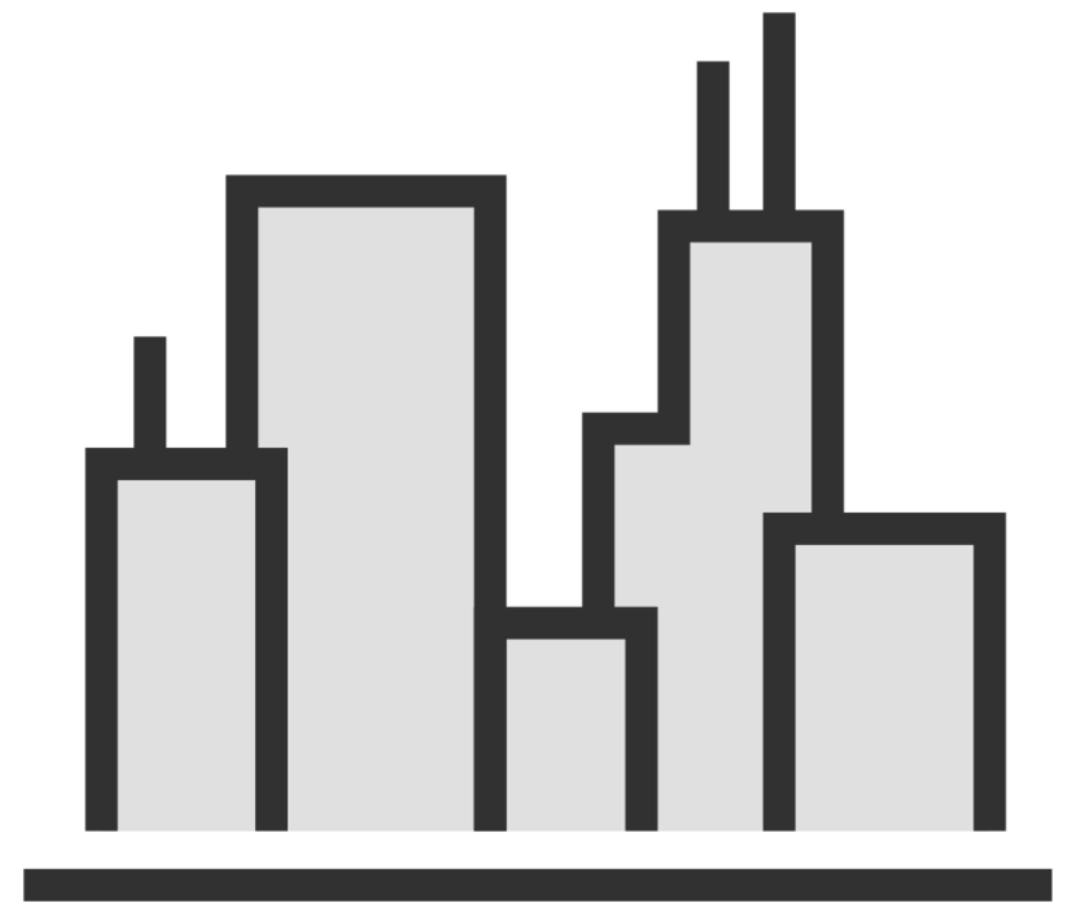
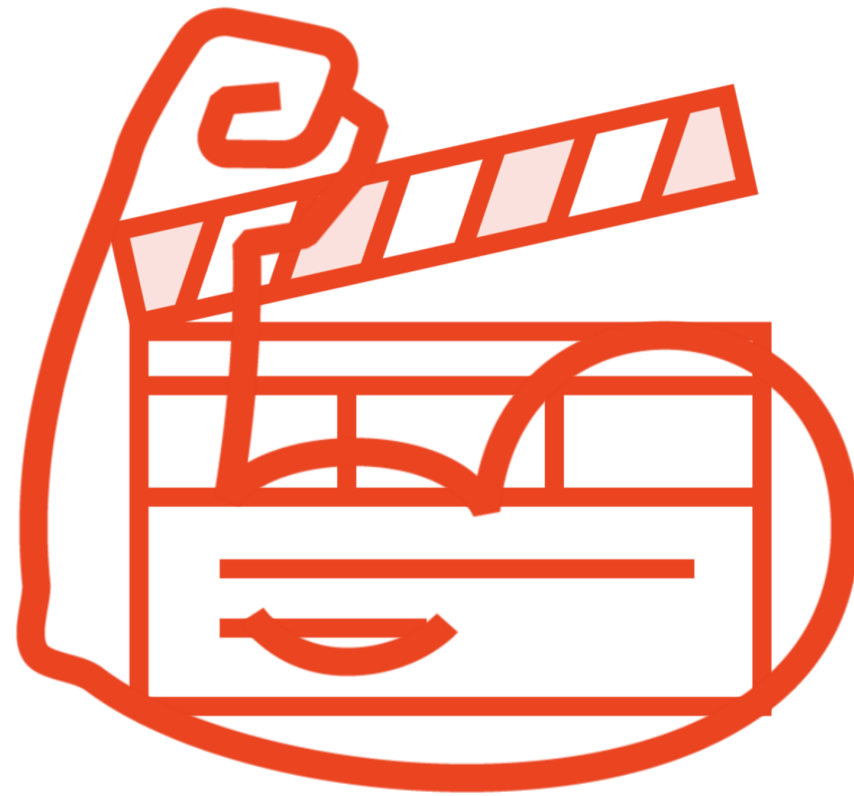
# Government Access Key (GAK)

---

# Government Access Key



# Government Access Key



# Learning Check

---

# Learning Check



**Confidentiality**



**Symmetric**



**Asymmetric**



**Digital signatures**



**Government Access Key (GAK)**



Up Next:

Examining Encryption Algorithms

---