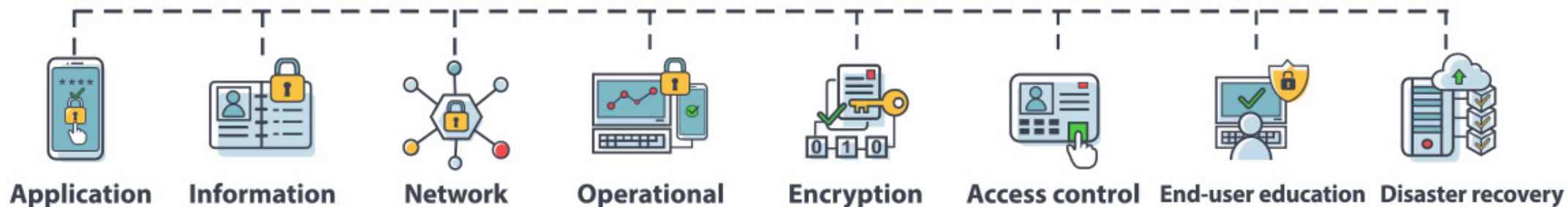# Cyber Security

Shi Jin

June 4, 2024

About Me

- Shi Jin

- Institute of Information Engineering

- Major: Cyber Security

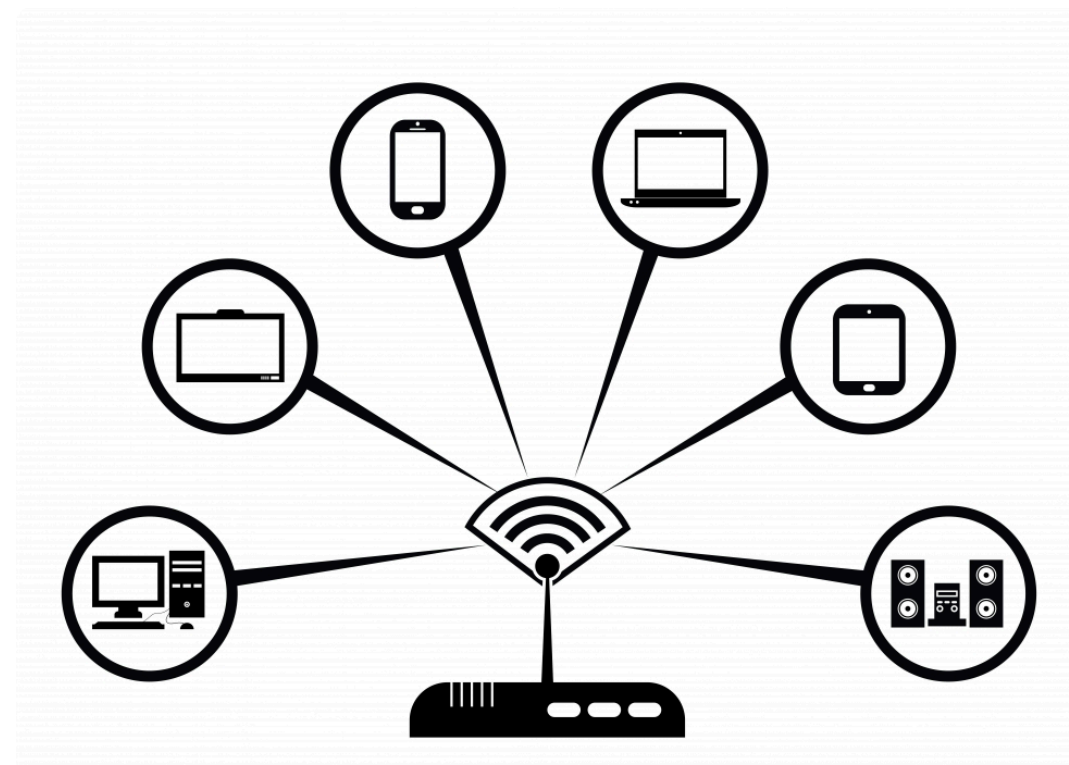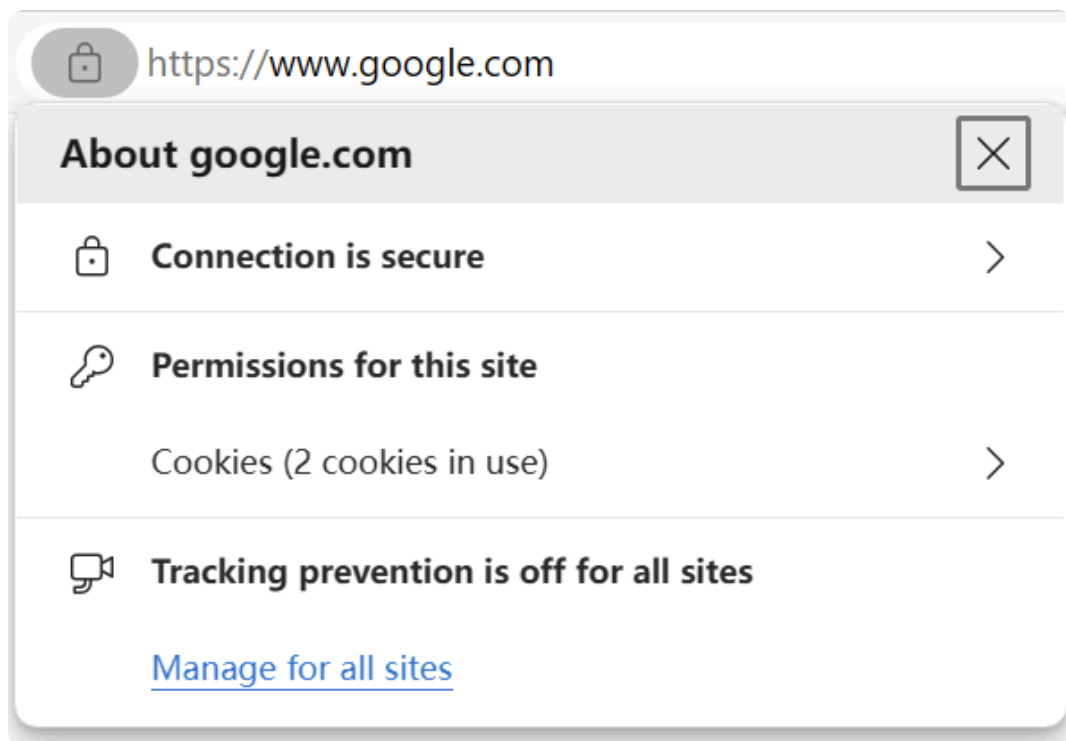- Direction: High Performance Computing and Programming

What is Cyber Security?

Cyber Security refers to the practice of **protecting** computers, servers, mobile devices, electronic systems, networks, and data from digital attacks, unauthorized access, and other cyber threats.
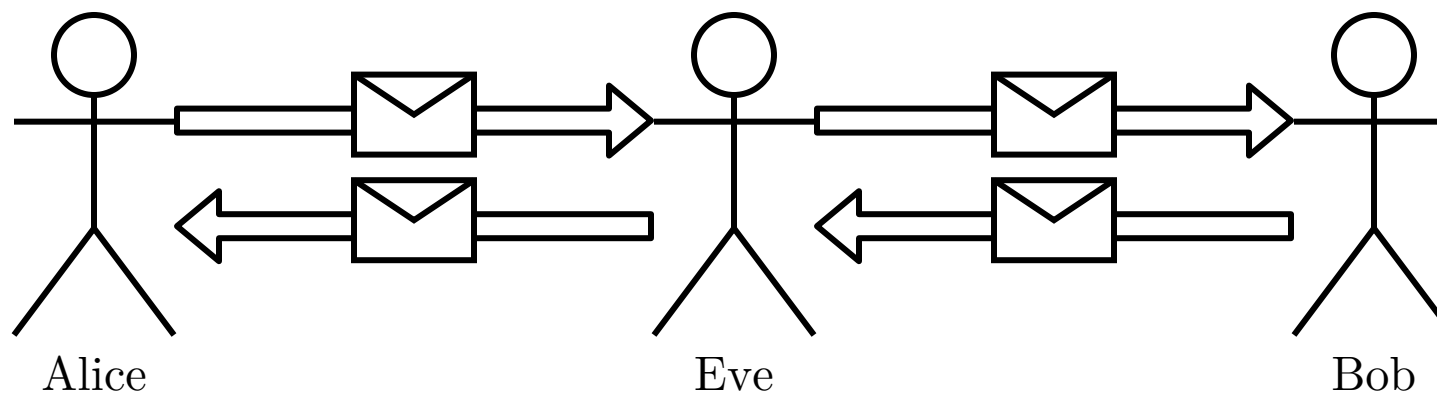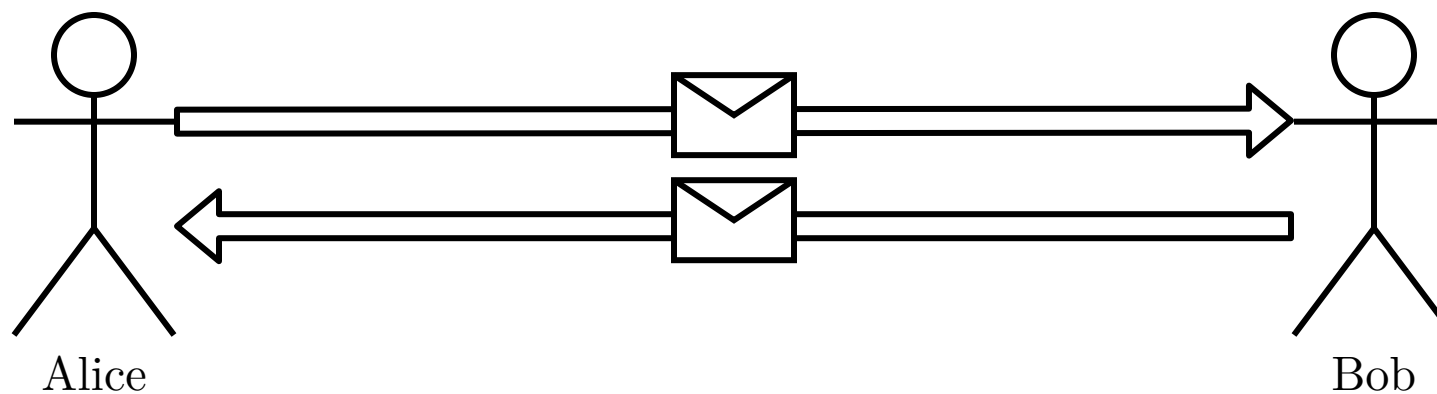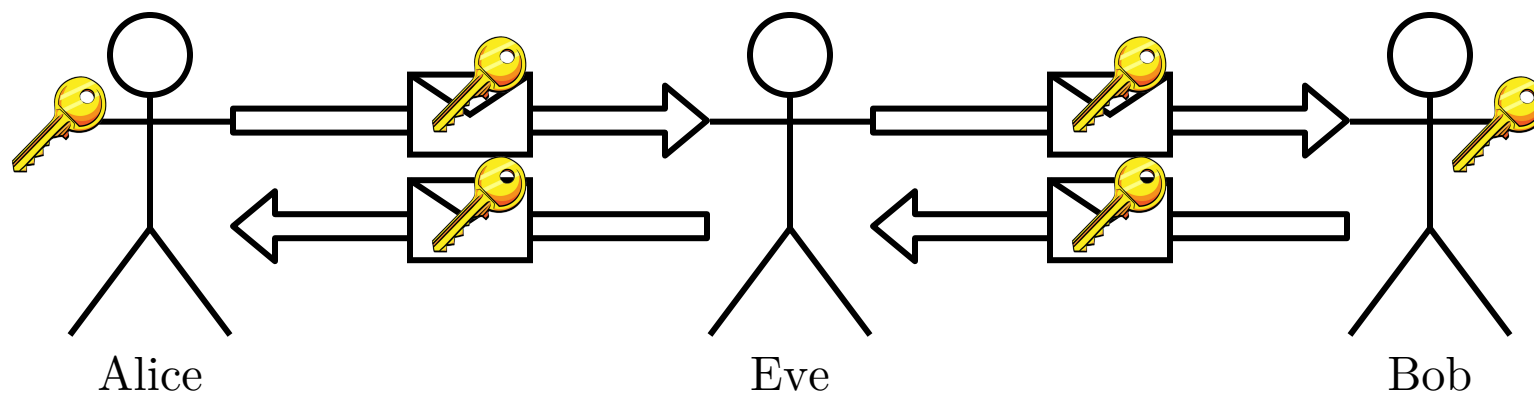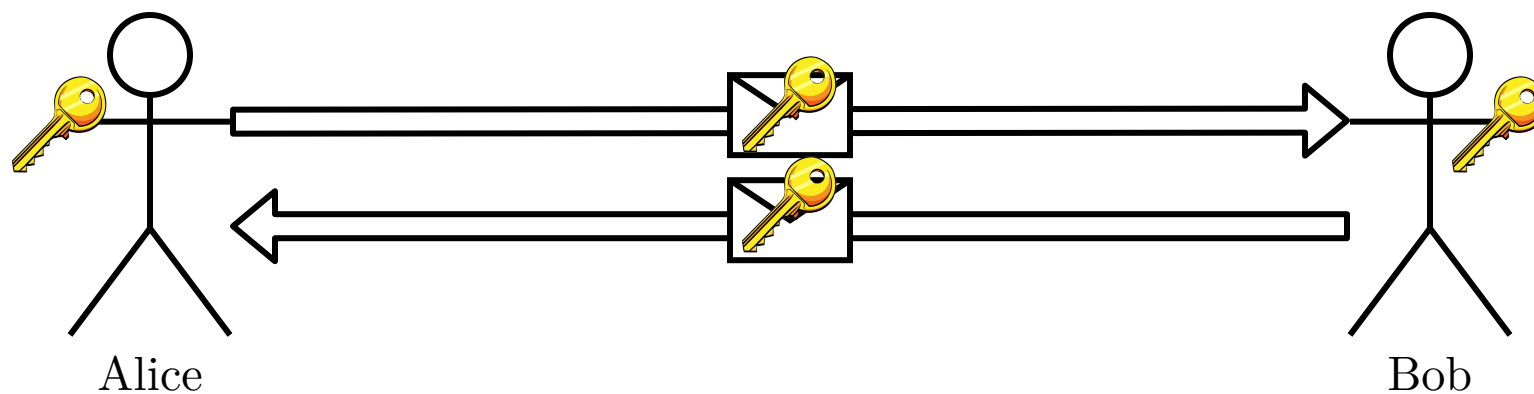
Cyber Security is Close to us

Cryptography

Imagine the Simplest Case

Alice

Bob

Alice

Eve

Bob

Encrypt using a key!

why do we need high performance computing?

Encryption and Decryption are Complex Mathematical Functions.

- For Users: Faster Encryption and Decryption

- For Cryptanalysts: Faster Algorithm Implementation

Thank You for Listening