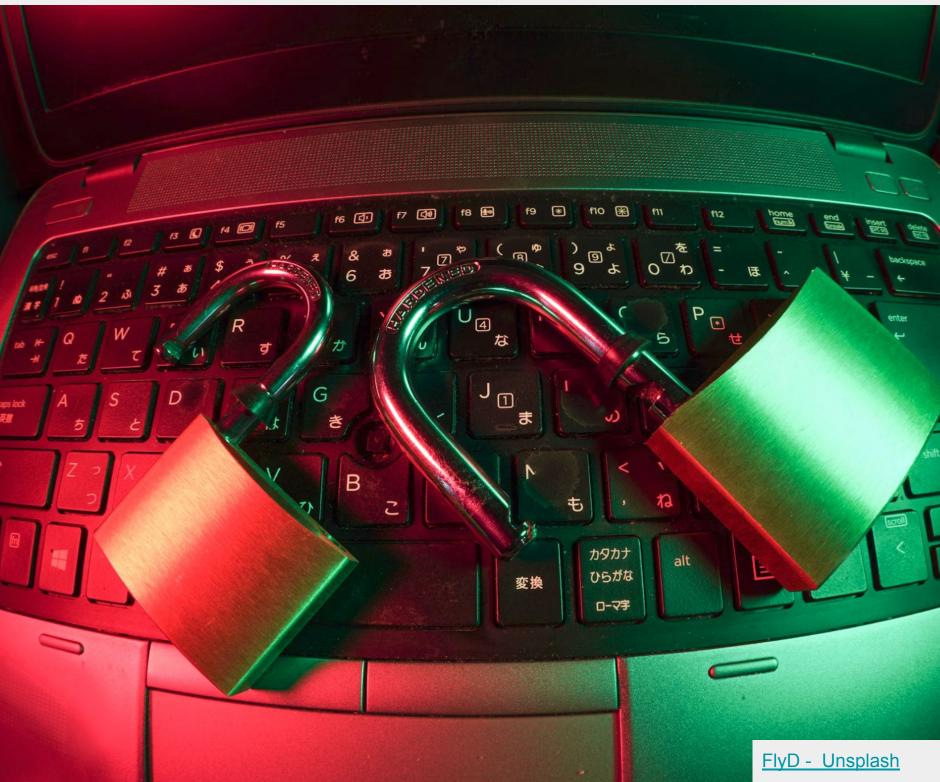
# Advanced ssh: keys and hostnames

Adapted from materials by Dr. Carrier



- Lots of typing

- Lots of typing
- Have to remember eos##.cis.gvsu.edu

- Lots of typing
- Have to remember eos##.cis.gvsu.edu
- Have to type password, can't see it or \*

>:**^**U

- Lots of typing
- Have to remember eos##.cis.gvsu.edu
- Have to type password, can't see it or \*

>:**^**U

- In ~/.ssh

- In ~/.ssh
  - Create / edit a file named config (no extension)

- In ~/.ssh
  - Create / edit a file named config (no extension)
  - Add to ~/.ssh/config:

- In ~/.ssh
  - Create / edit a file named config (no extension)
  - Add to ~/.ssh/config:

Host eos01

- In ~/.ssh
  - Create / edit a file named config (no extension)
  - Add to ~/.ssh/config:

Host eos01

Hostname eos01.cis.gvsu.edu

- In ~/.ssh
  - Create / edit a file named config (no extension)
  - Add to ~/.ssh/config:

Host eos01

Hostname eos01.cis.gvsu.edu

User exampleusername

- In ~/.ssh
  - Create / edit a file named config (no extension)
  - Add to ~/.ssh/config:

Host eos01

Hostname eos01.cis.gvsu.edu

User exampleusername

- How to use?
  - Simple! Type: ssh eos01

## ssh keys 🔑 🔑

Idea: how to verify users with files on their system?

## ssh keys 🔑 🔑

Idea: how to verify users with files on their system?

We leverage public/private key encryption!

#### Using ssh keys

- 1. Generate the keys
  - a. ssh-keygen
- 2. Share the public key
  - a. ssh-copy-id -i path\_to\_key username@server

#### Common issues with ssh keys

- Errors with authorized\_keys file
  - Make sure the file exists: touch ~/.ssh/authorized\_keys
  - Wrong permissions
    - chmod 600 ~/.ssh/authorized\_keys
    - chmod 700 ~/.ssh
- If you have ssh and ssh-keygen but not ssh-copy-id
  - We can manually copy the key and add it to the file
    - scp ~/.ssh/id\_rsa.pub
      username@hostname:~
    - Login to server via ssh
    - cat id\_rsa.pub >> ~/.ssh/authorized\_keys