SSH Keys

Question?

- Who has used SSH keys before and know what they are?
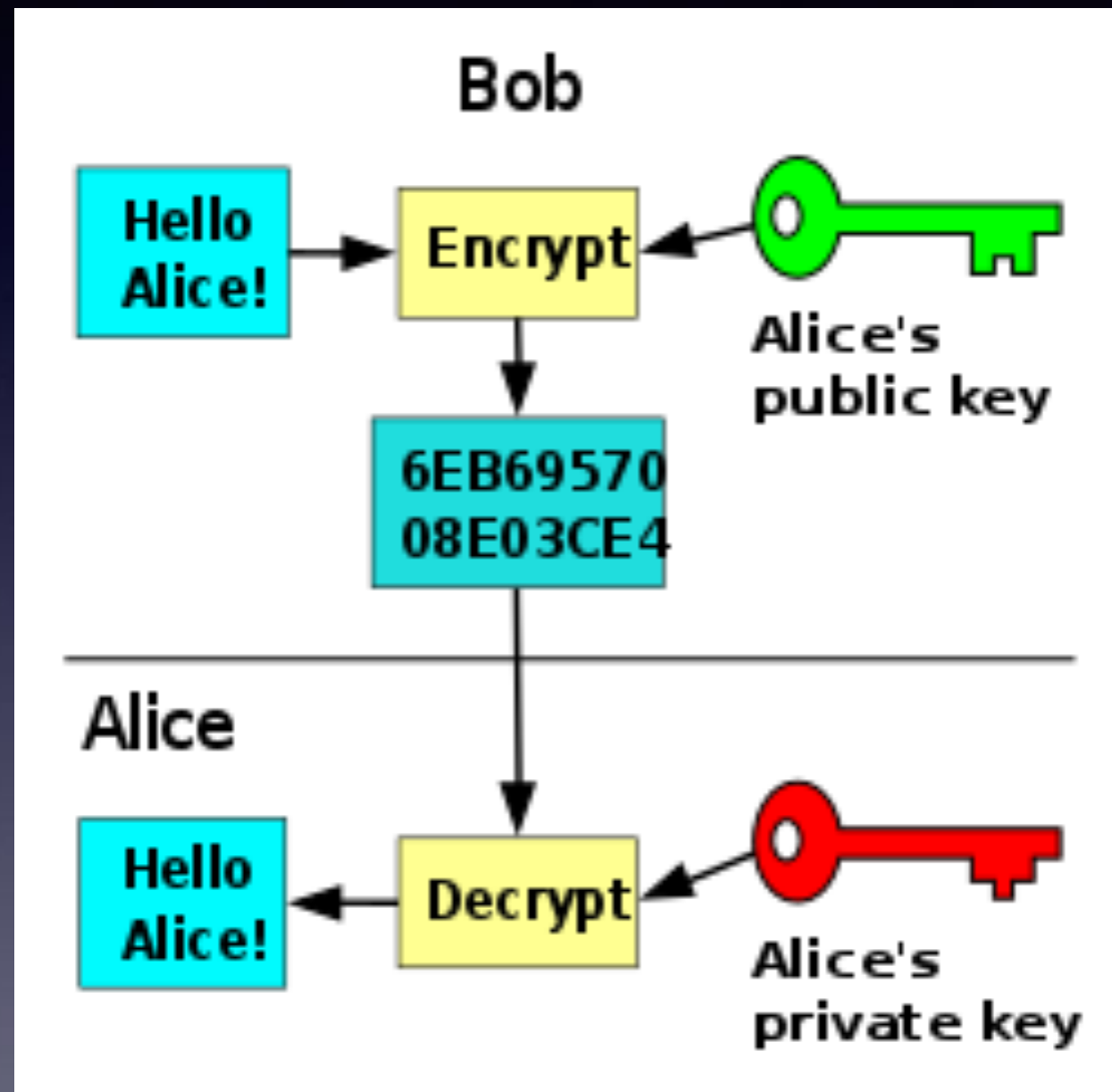
Why SSH keys?

PROS	CONS
No need to remember passwords It takes 5 seconds of your life one time instead of 5 seconds everytime.	Possibly less secure depending on how you set them up.

How passwords work

Asymmetric Keys

- https://youtu.be/4Tb1q8dSlll
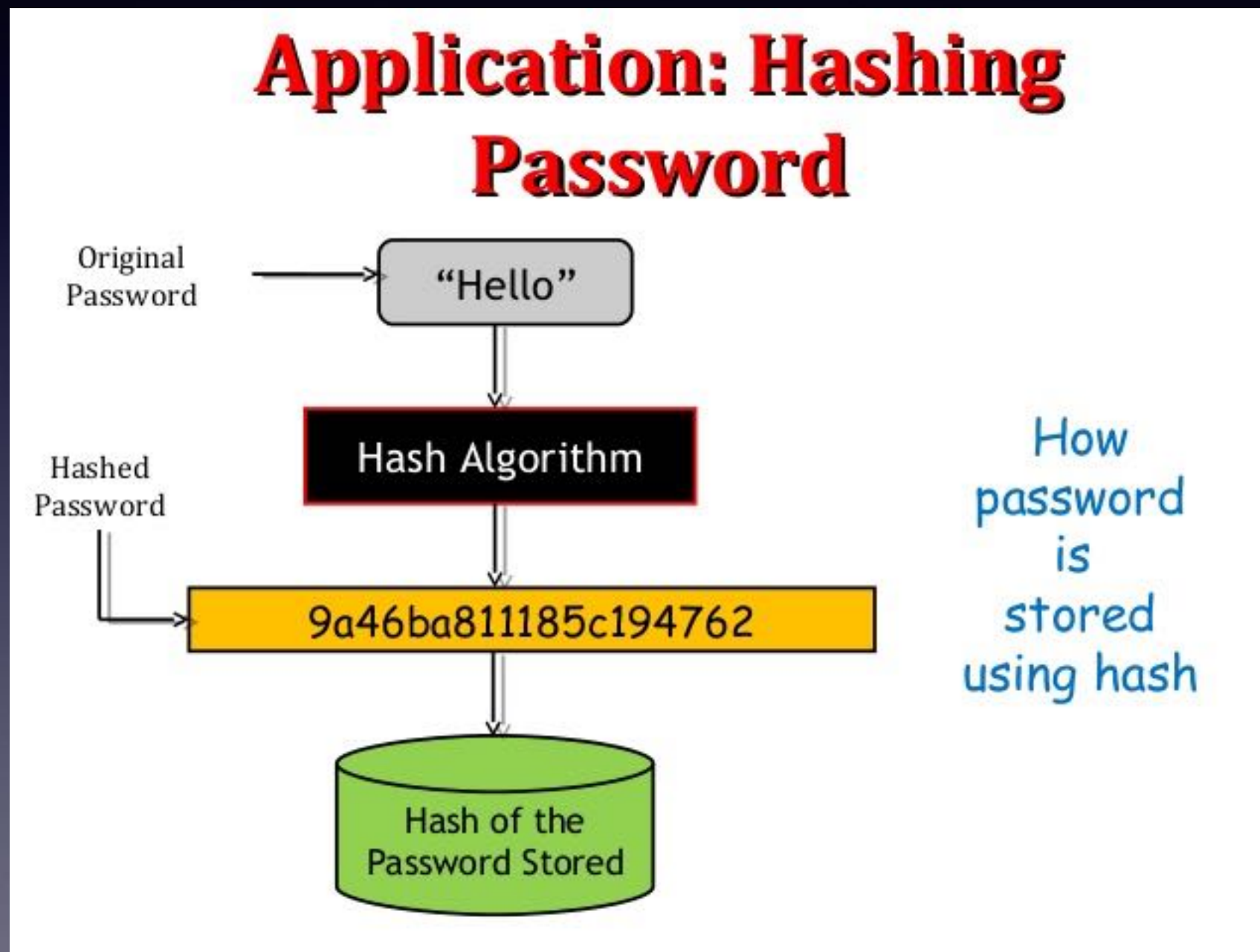
What are SSH Keys?

- SSH keys come in pairs:

  - One stored on your computer (private key)

  - One stored on the remote machine (public key)

- When you try to SSH into a server, a check is made

- it checks if the user has the private key that matches the public key

How to Set Up SSH Keys

Step 1: Generate your key pair

`ssh-keygen -t rsa`

Step 2: Copy your public key to

`ssh-copy-id user@ozstar.swin.edu.au`

(may need to install ssh-copy-id)

~/.ssh/config

- SSH Config file has many options for SSH, including not having to write out the ssh address overtime.

- Login to Ozstar with just: `ssh ozstar`

```
Host ozstar
    Hostname ozstar.swin.edu.au
    User USERNAME
```

Double SSH

```
Host g2
    Hostname g2.hpc.swin.edu.au
    User USERNAME
    ForwardX11 yes

Host sstar001
    ProxyCommand ssh g2 nc sstar001 22
    User USERNAME
```