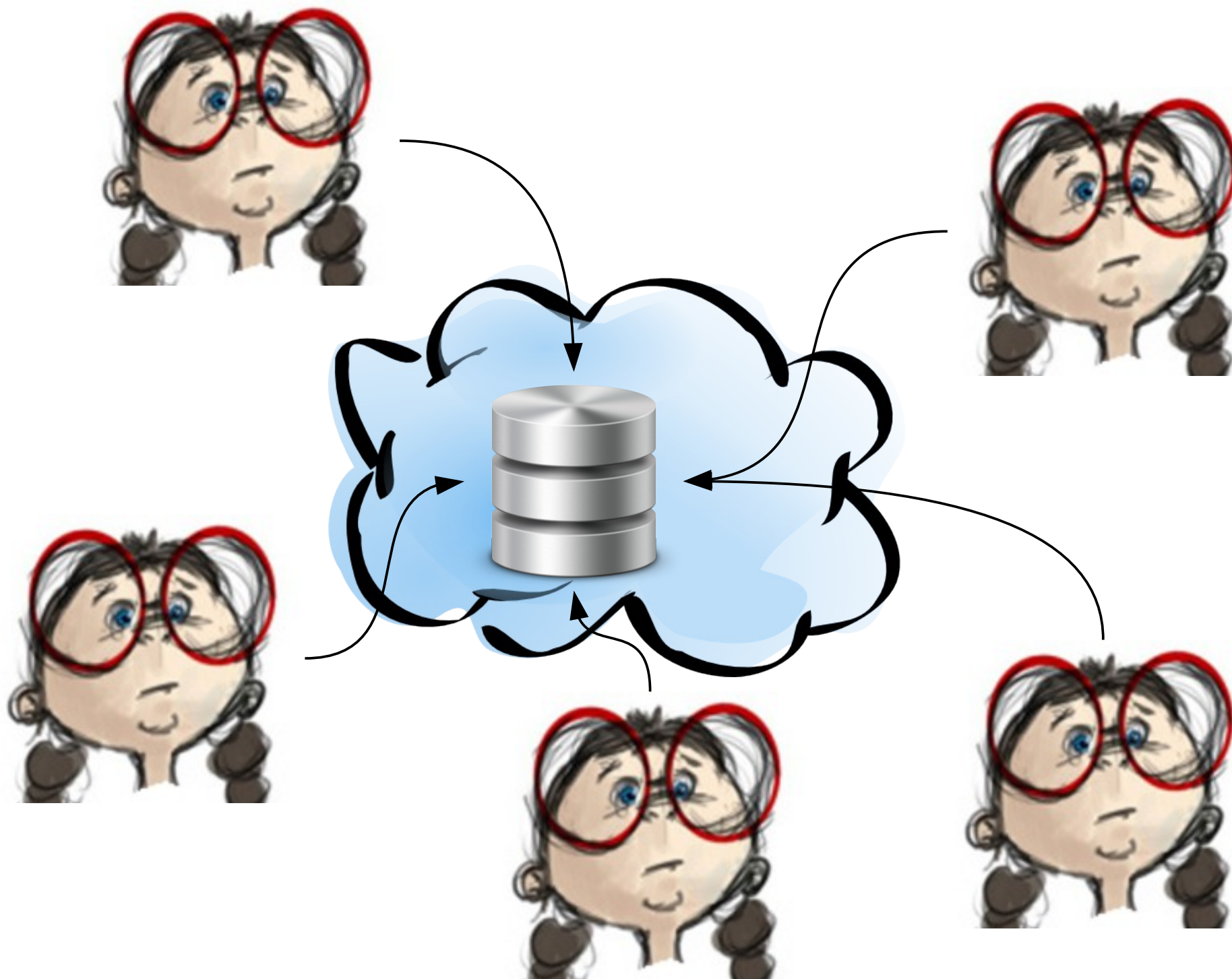


ARVER

distributed

LUKS management

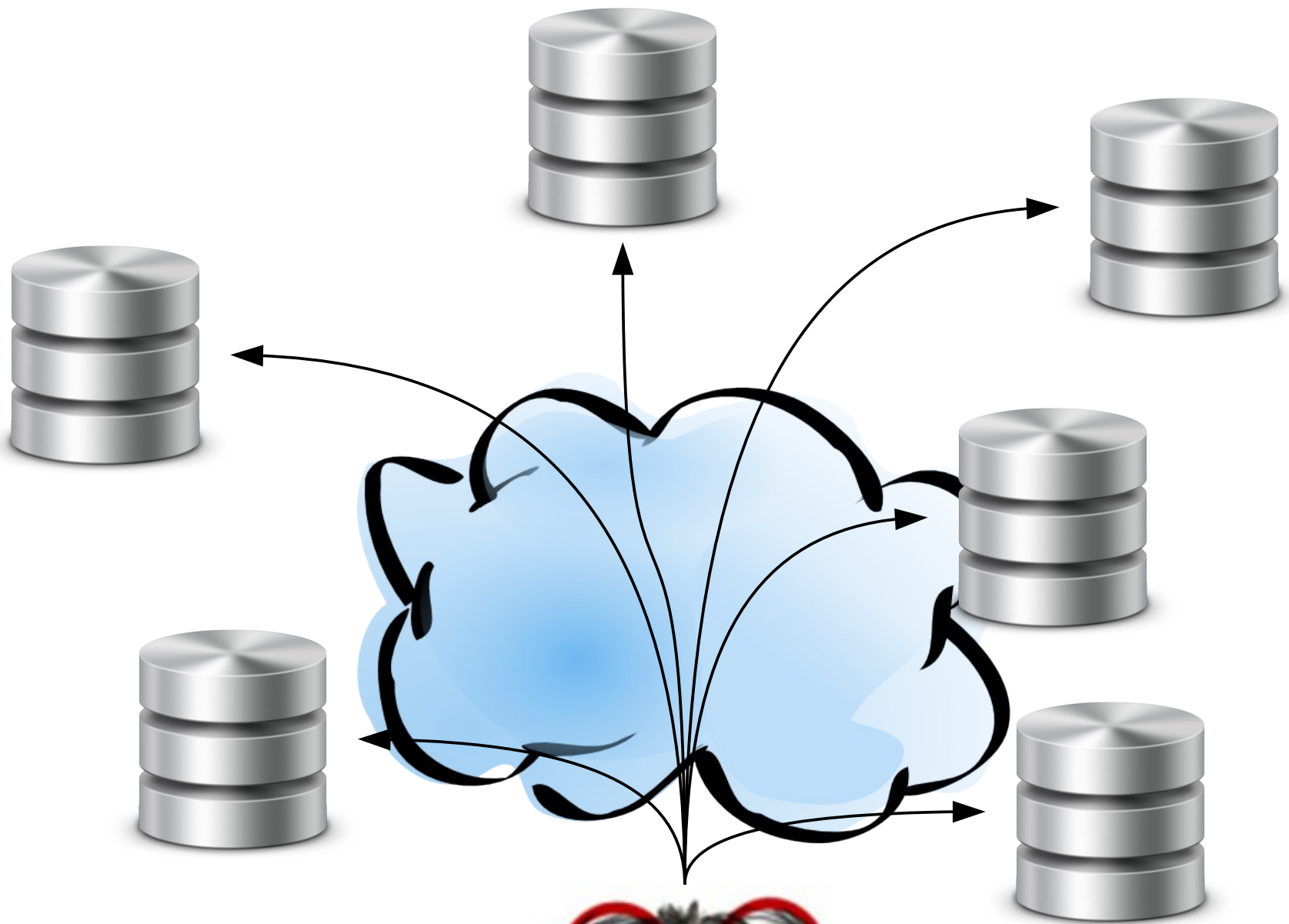


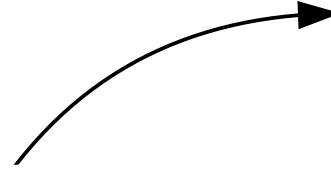


Share the

passwords?







Type 1000
passwords?



the wish list

- ☒ Per-admin policy
- ☒ Key distribution
- ☐ Automation
- ☐ Deniability

Linux Unified Key Setup:



Slot 1: Alice



Slot 2: (empty)



Slot 3: (empty)

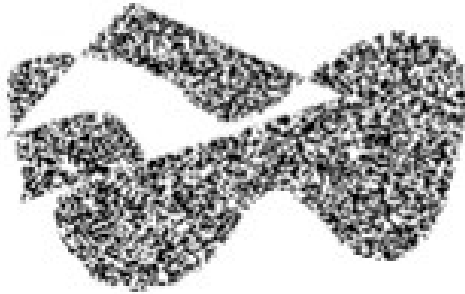
...



Slot 8: (empty)

alice#: arver --add-user bob theDisk

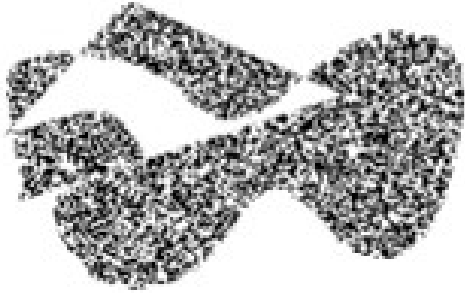
random LUKS key



Slot 2

(via SSH)

random LUKS key



Bobs GPG
PublicKey



Bobs ARVER key
for theDisk

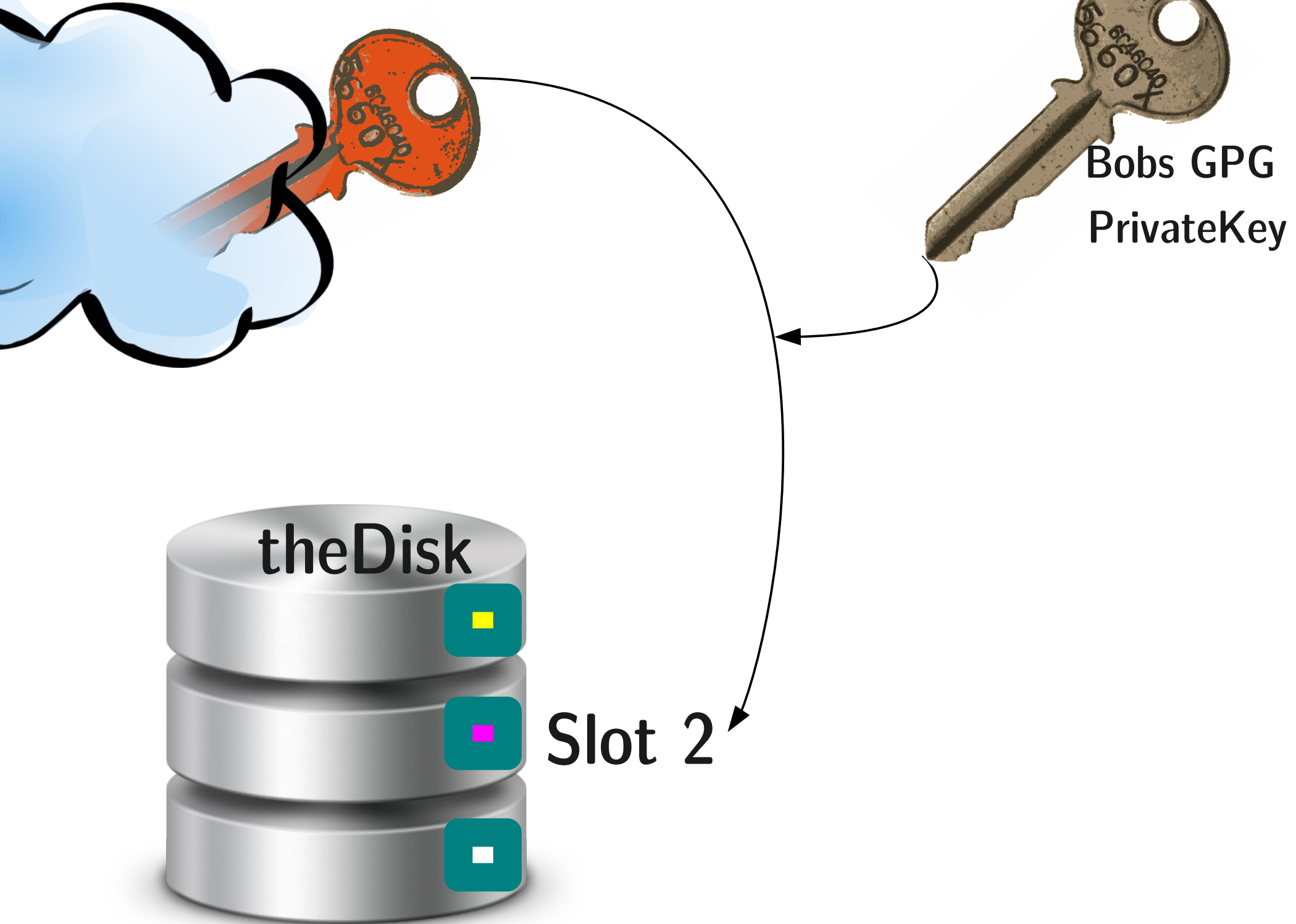




Bobs ARVER key
(for theDisk)



bob#: arver --open theDisk



☐ Per-admin policy

☐ Key distribution

☒ Automation

☒ Deniability

Examples

`arver --open /berlin/coloX`

`arver --del-user eve ALL`

`arver --garbage-collect`

Future Work

Shared Secret

Other crypto stacks

(“Better” deniability)

<https://git.codecoop.org/projects/arver>

<https://tech.immerda.ch/2011/08/arver-distributed-luks-key-management/>

arver@lists.immerda.ch

6036 9F10 3542 9963 EAE9 B698 D4C1 6590 A6C0 C4BD