INTRODUCTION TO VAULT

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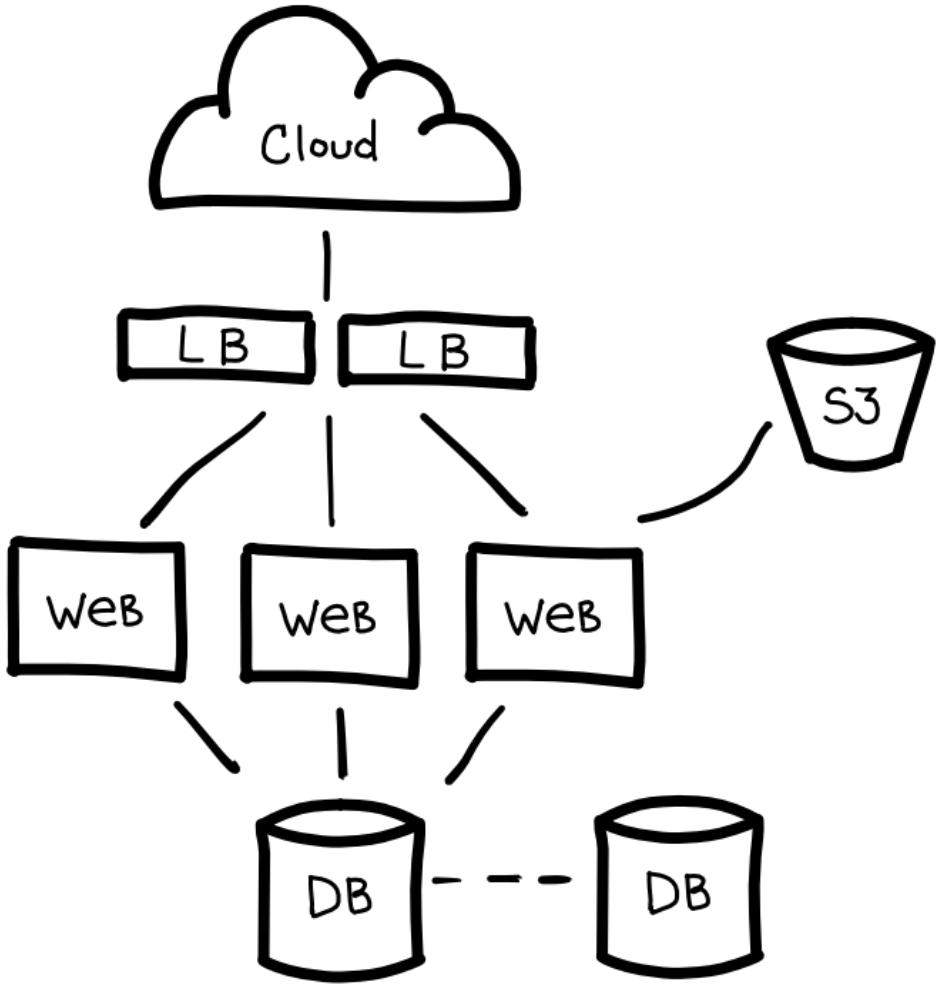
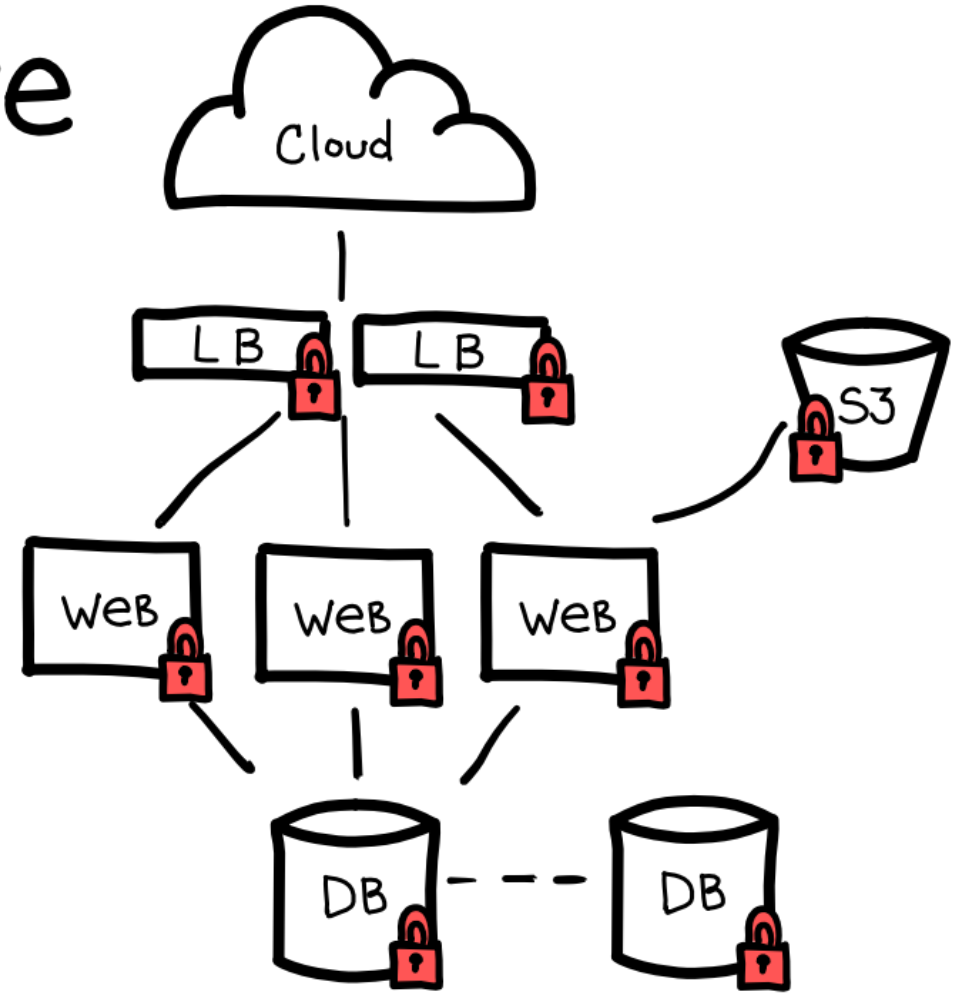
Engineering Manager
New Context

newcontext.com
github.com/ksexton
twitter.com/mocker

Modern environments are complex



Secrets are everywhere



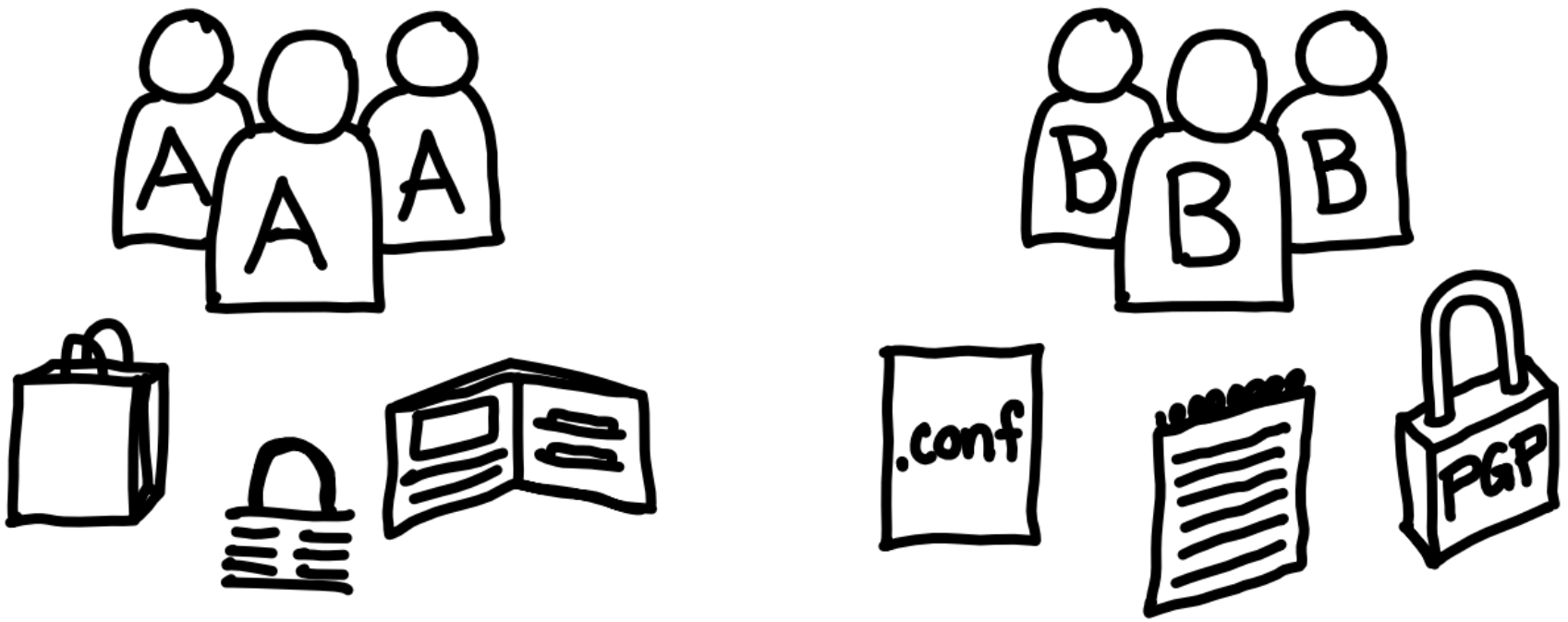
Databags

Keepass

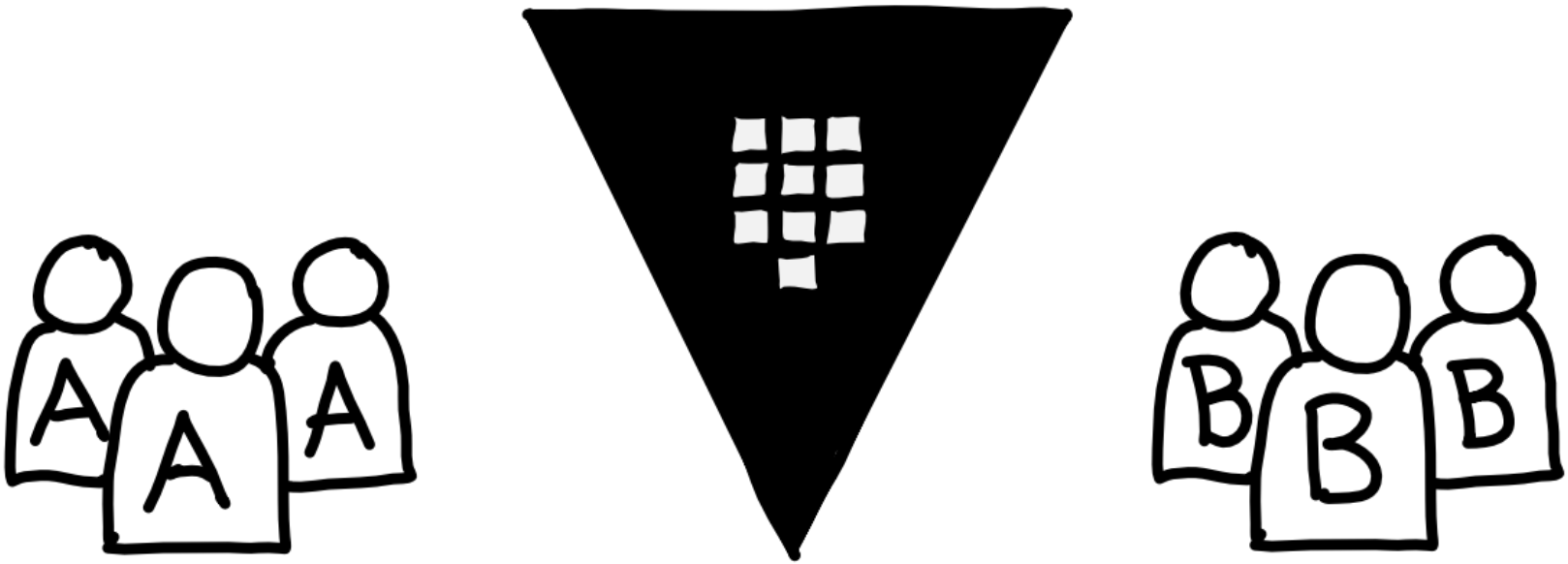
oracle wallet

Wasteful

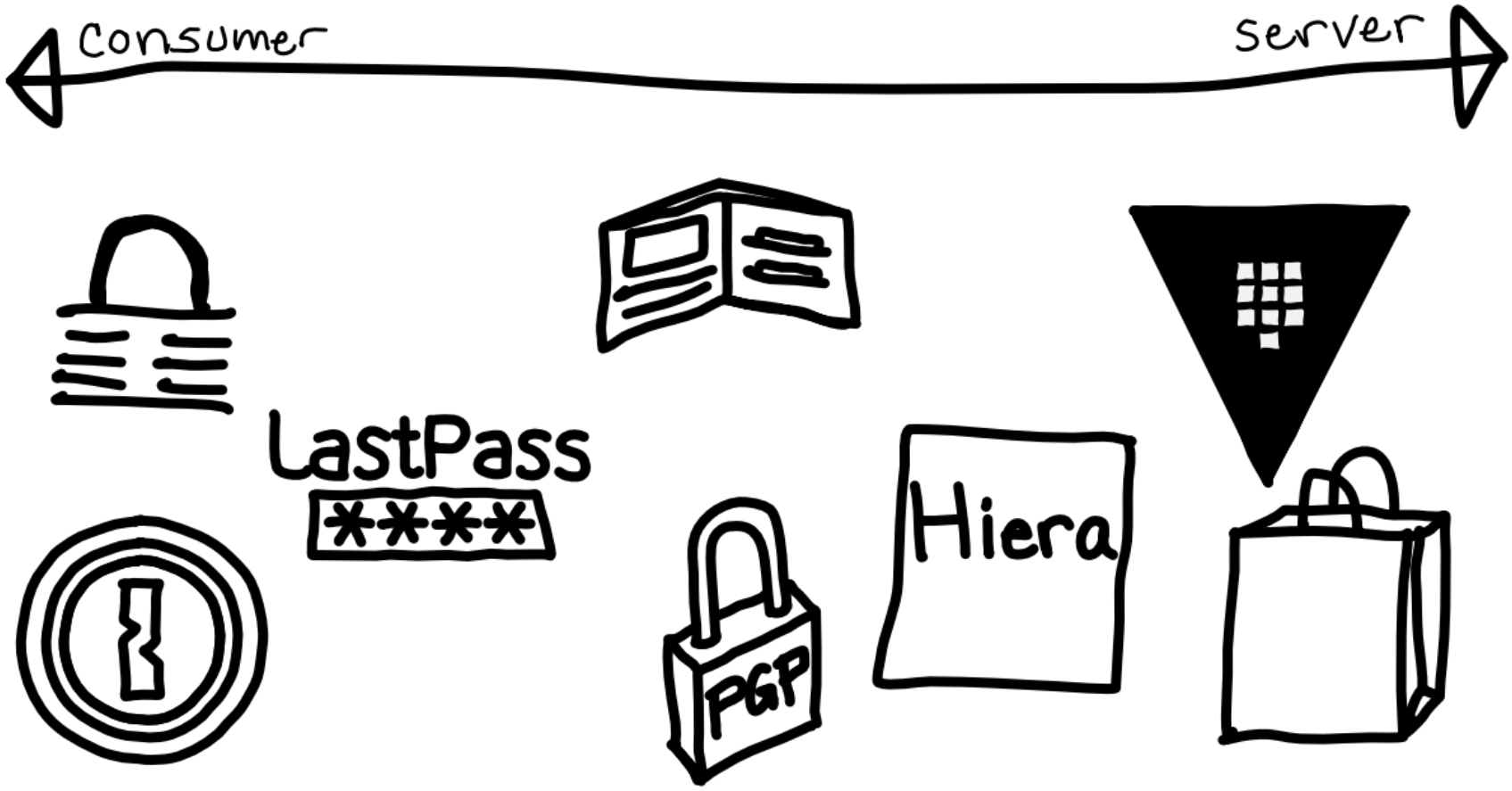
Sprawl



Unified



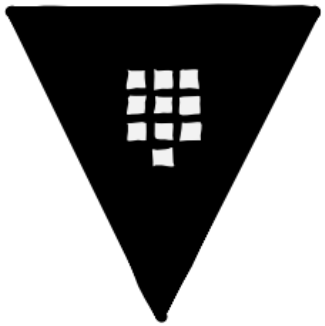
Landscape



Landscape

You manage secrets

Vault manages secrets

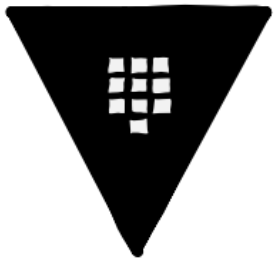


Why ?

- Secure secret storage
- Dynamic secrets
- Encryption
- Leases
- Revocation

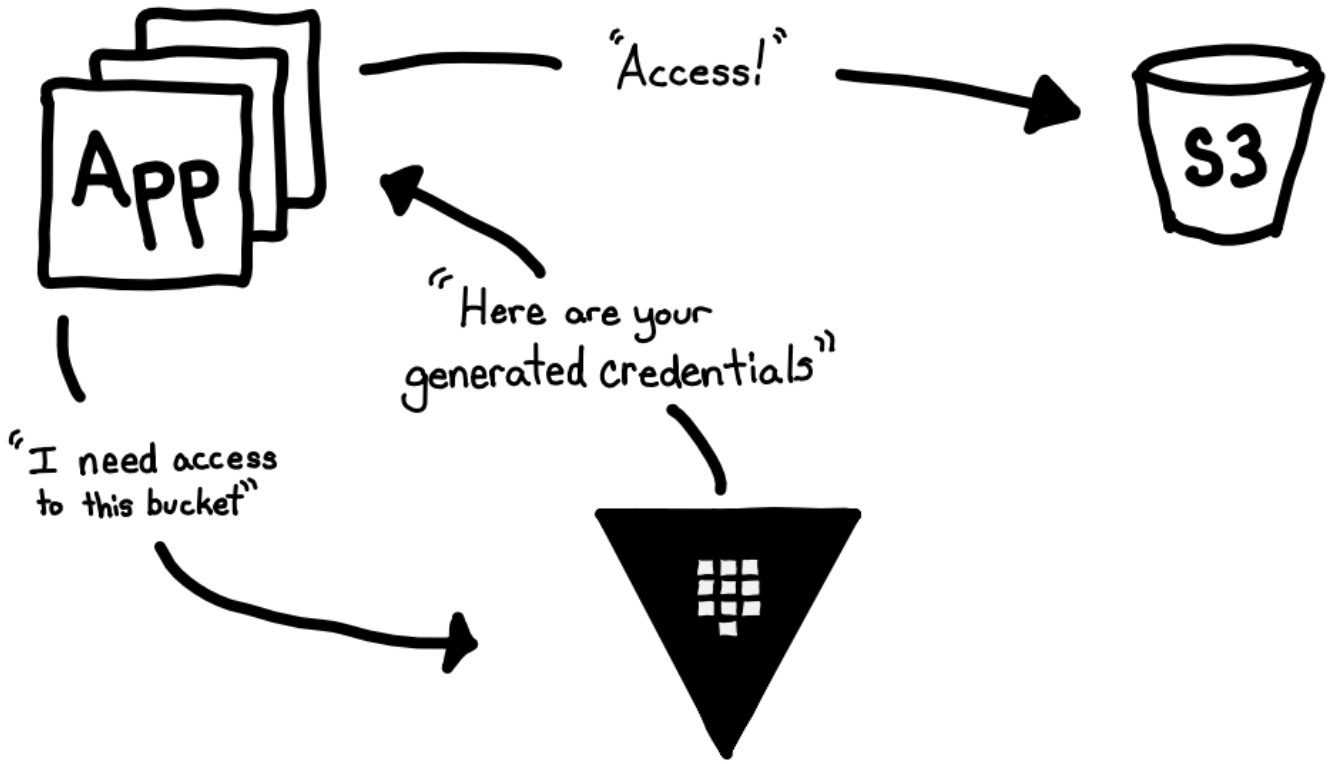
Secure secret storage

Key	Value
event	DevOpsDays KC
Speaker	Kyle Sexton
rating	★★★★★

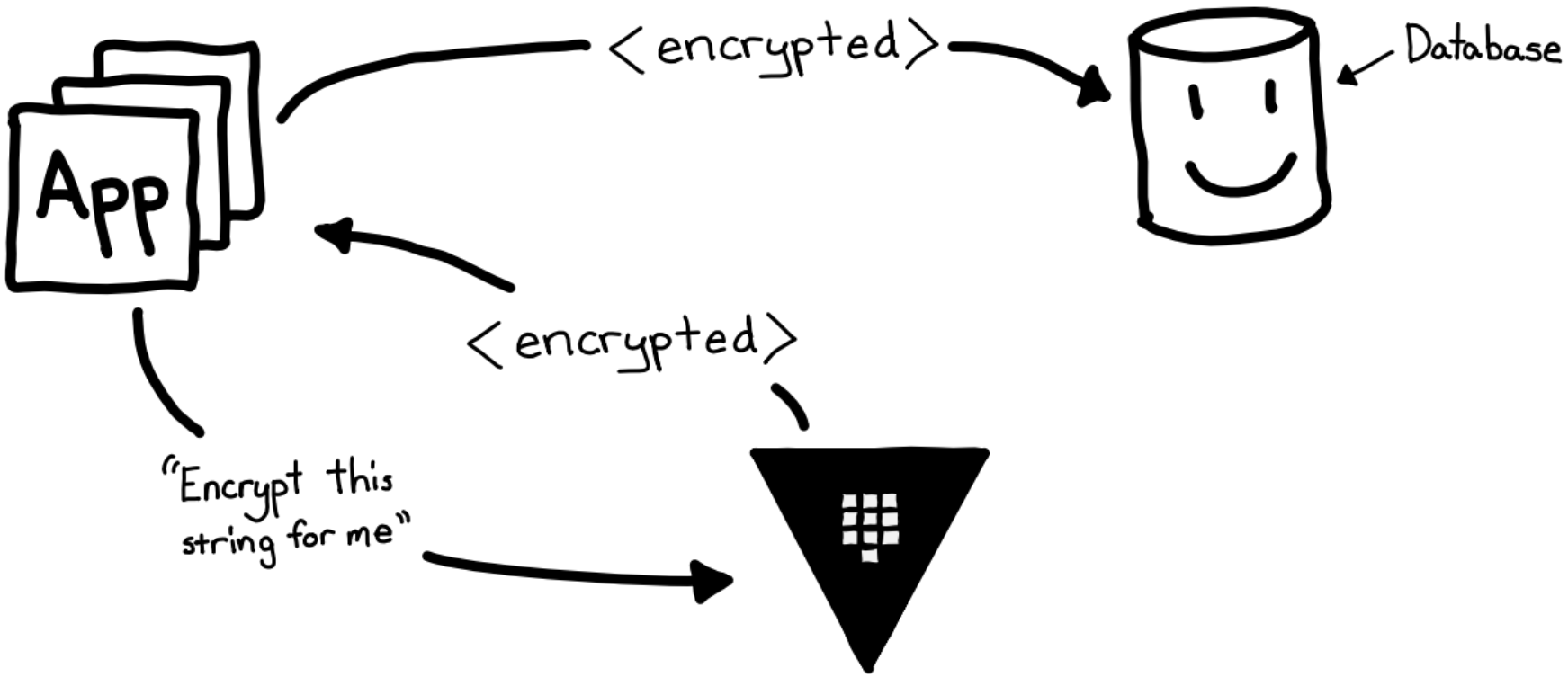


Key	Value
event	<encrypted>
Speaker	<encrypted>
rating	<encrypted>

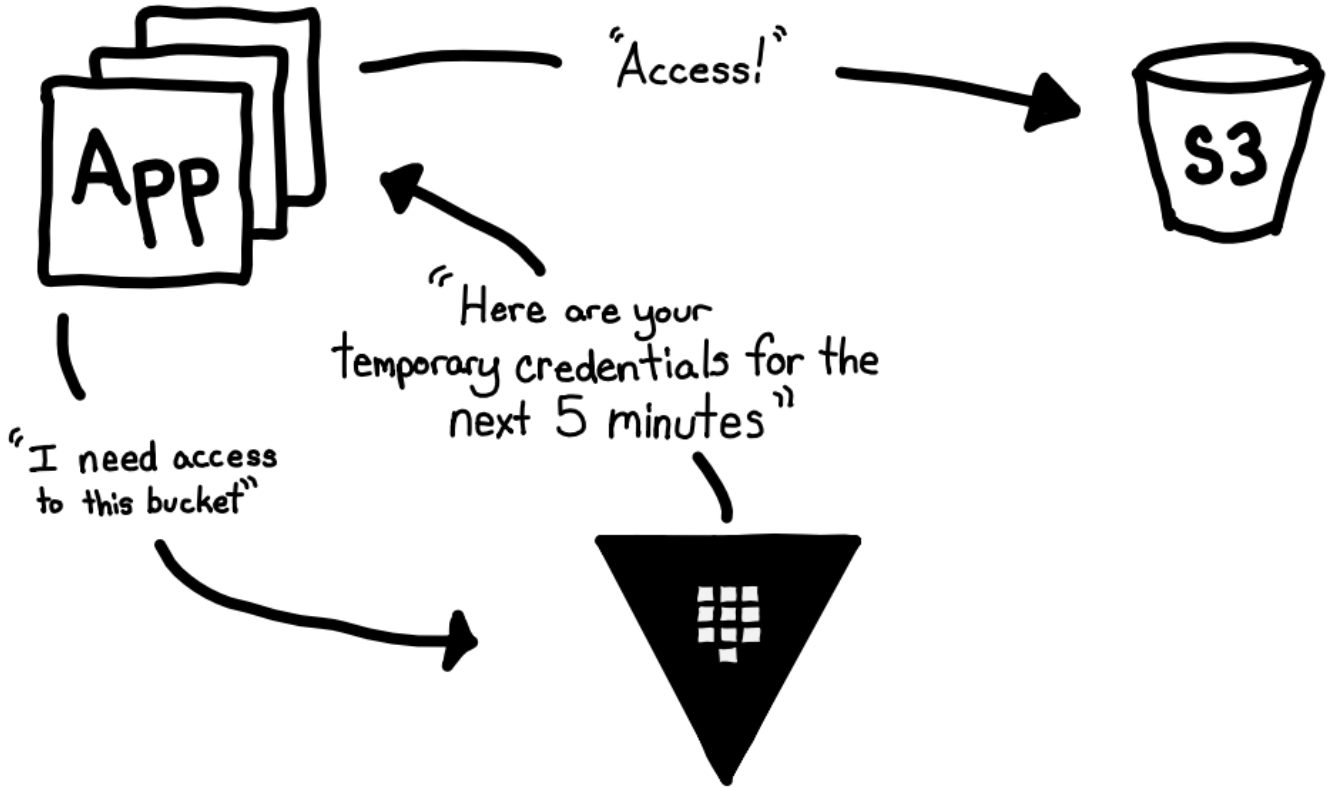
Dynamic secrets



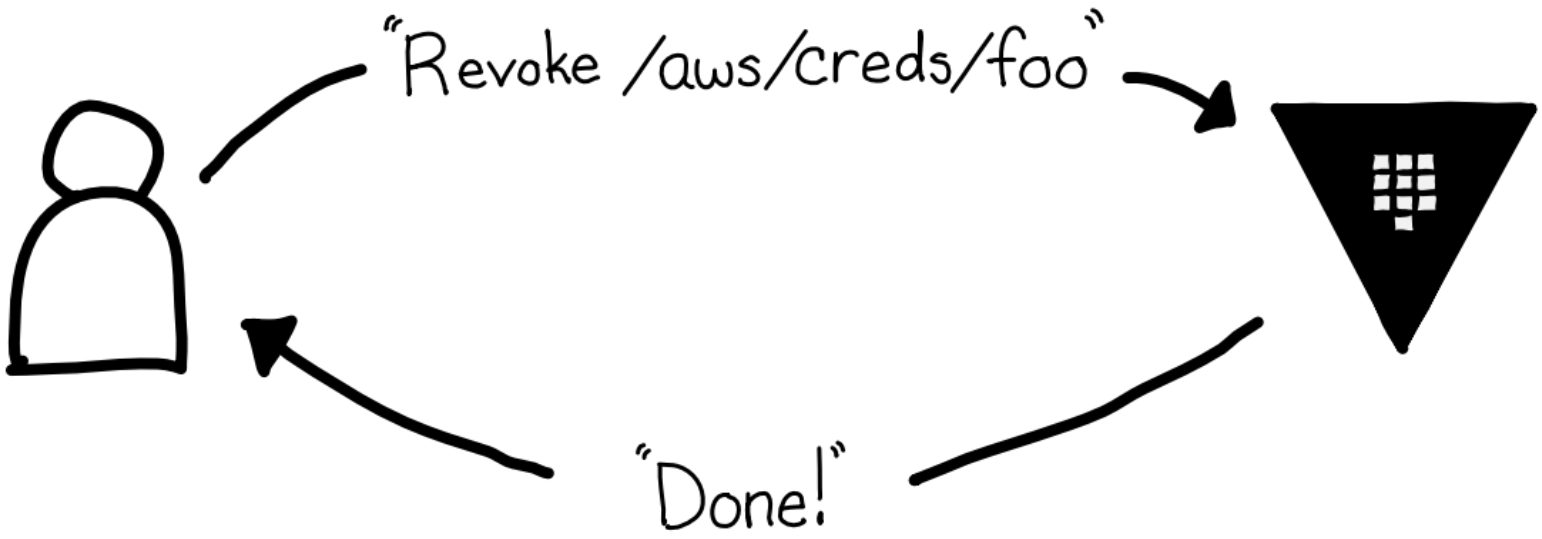
Encryption... as a service



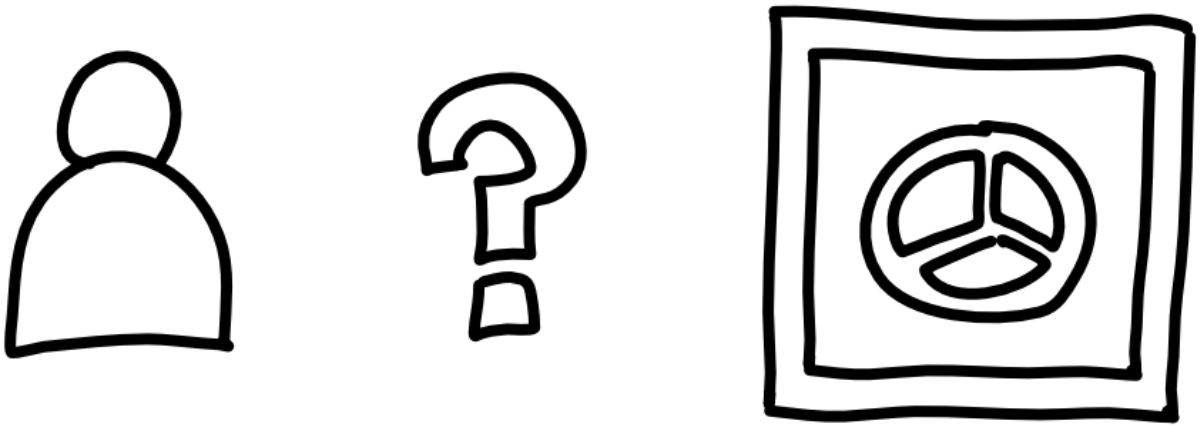
Leases

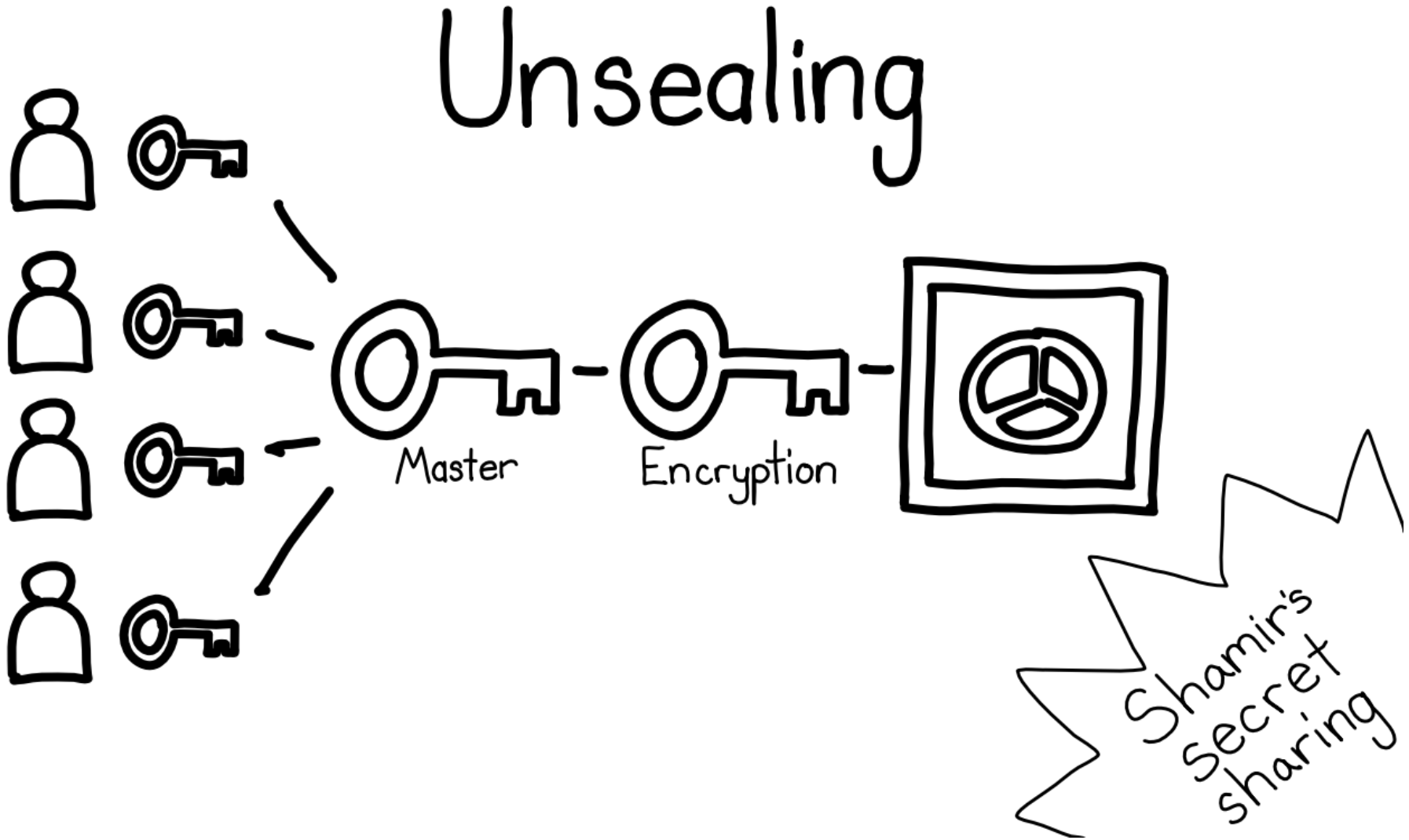

App
"Access!"
S3
"Here are your temporary credentials for the next 5 minutes"
"I need access to this bucket"

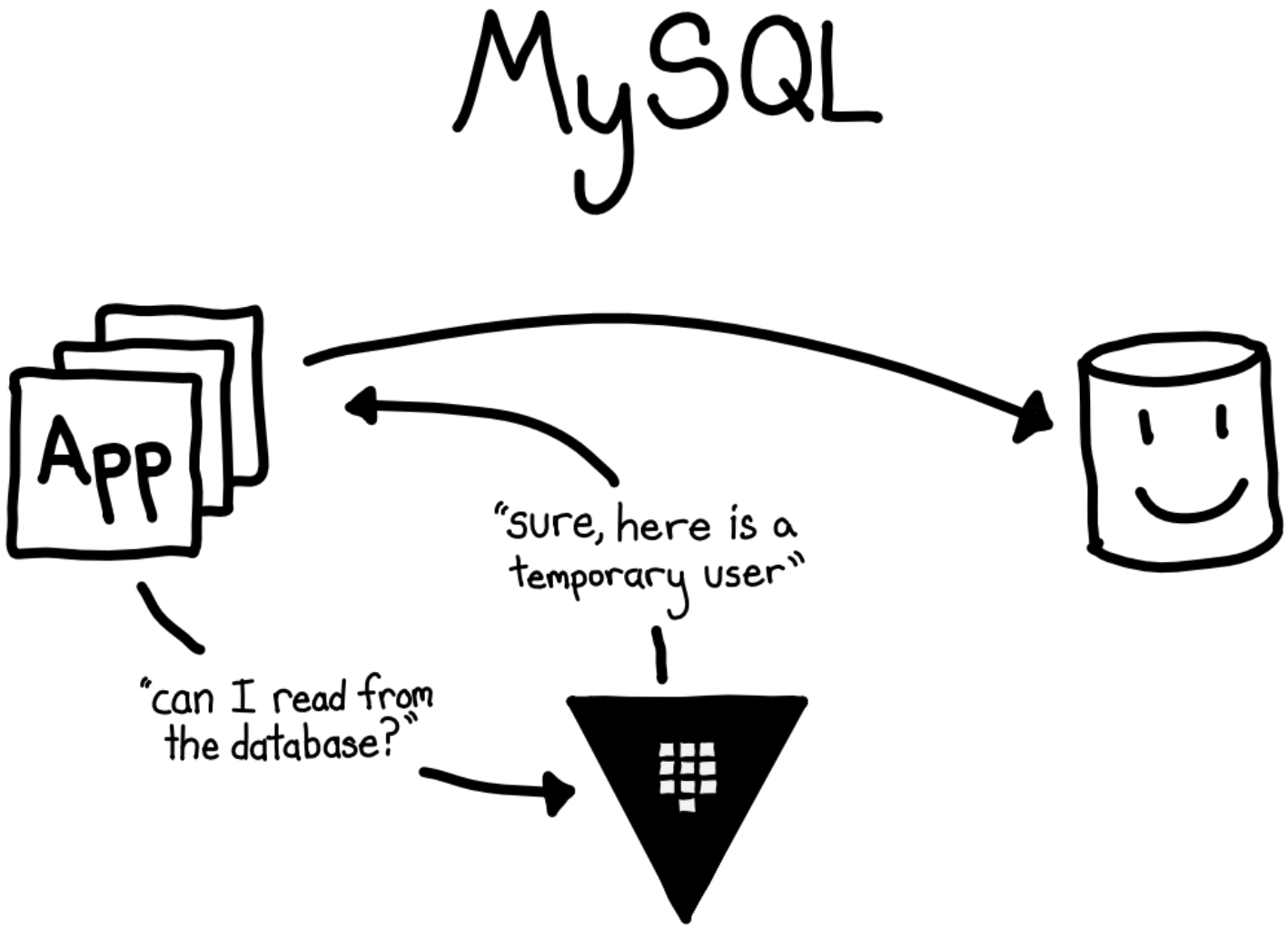
Revocation



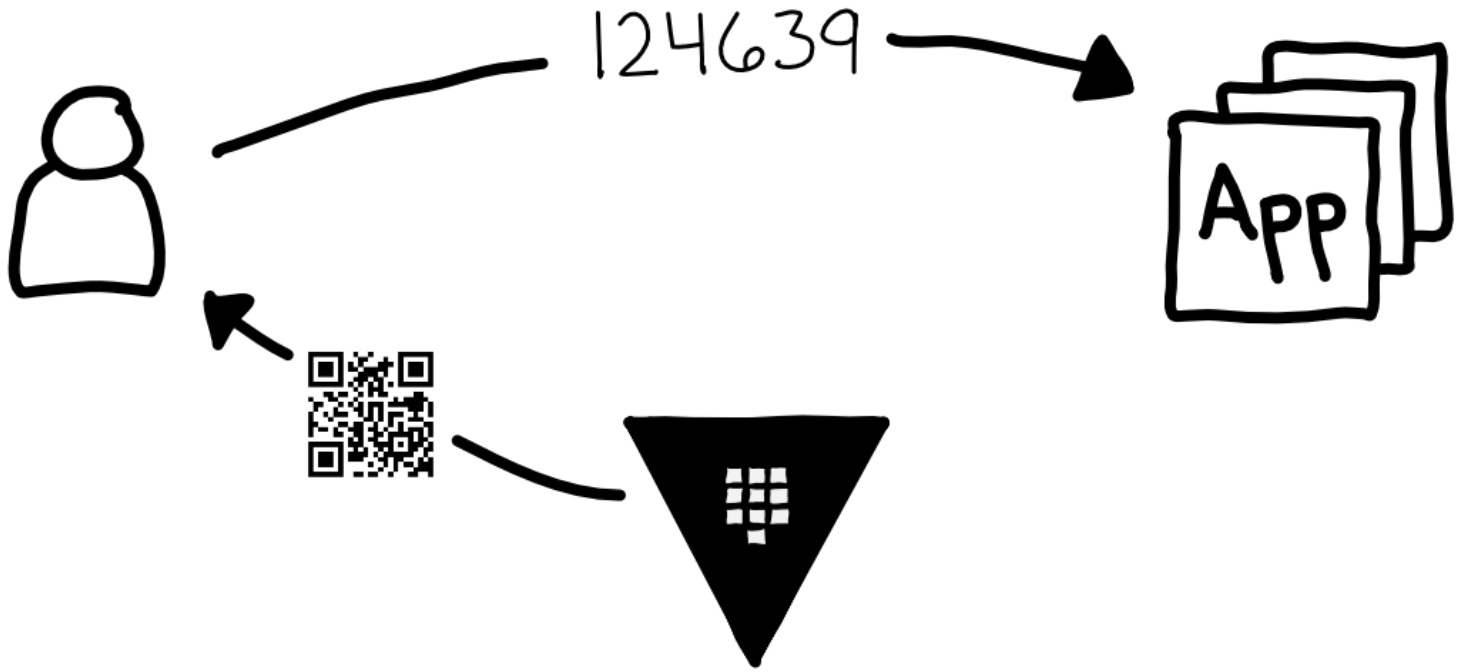
Starting Vault



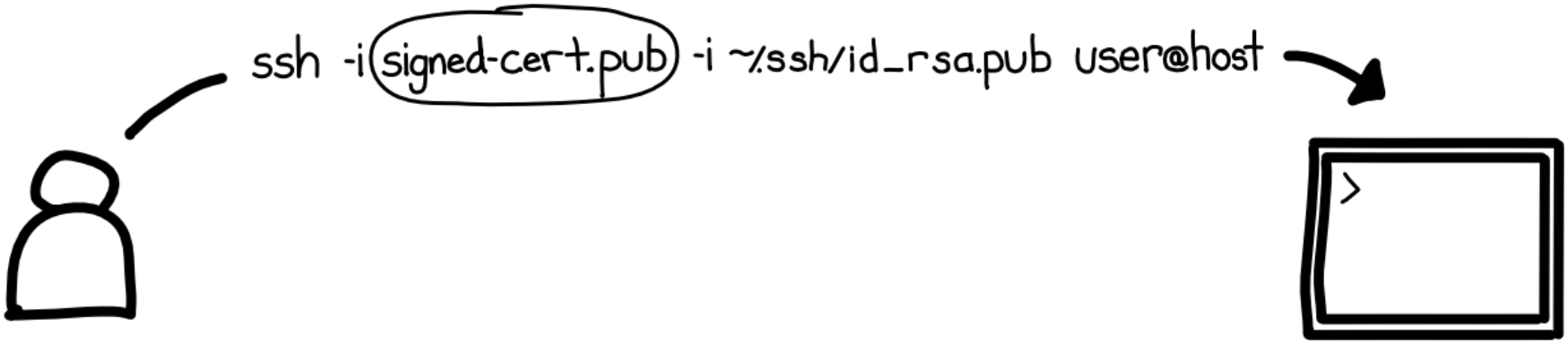

Unsealing
Master
Encryption
Shamir's
secret
sharing


MySQL
APP
"sure, here is a temporary user"
"can I read from the database?"

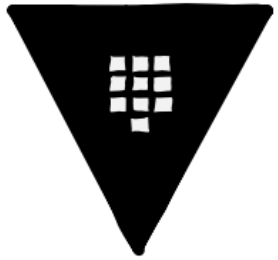
One time passwords



SSH CA



You should use



for a unified way

to manage secrets