

#hcpp19, Pavel



Staying in charge when you cannot be

How?



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How?

DAPP on Ethereum

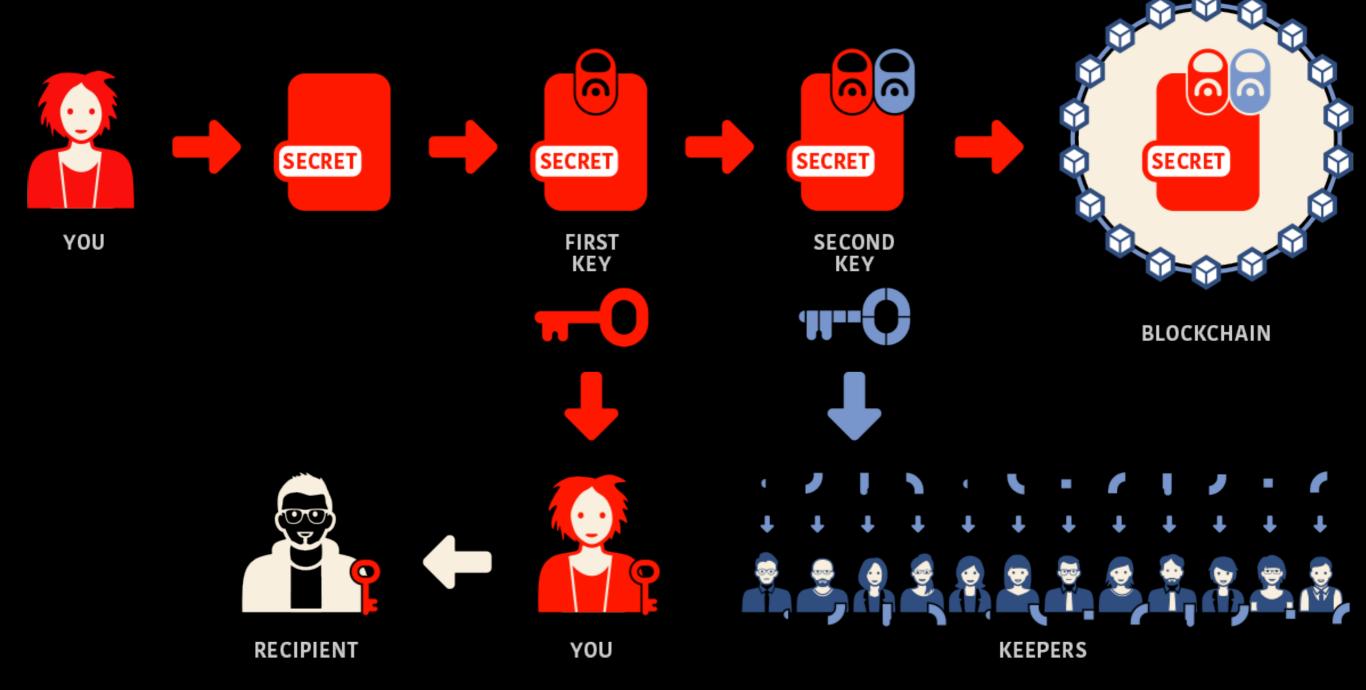
paid keepers

secret split between keepers (Shamir)

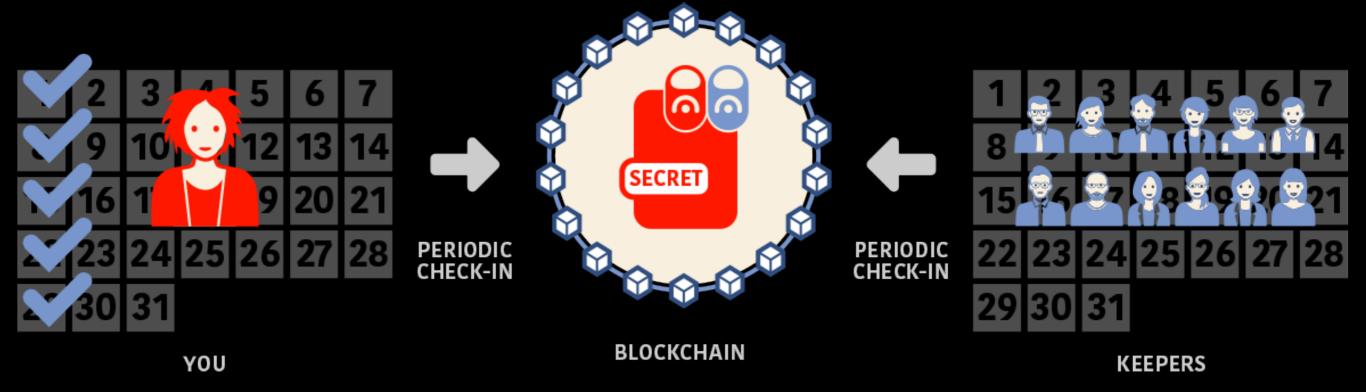
keepers publish secret once you drop out

publication is inevitable and unstoppable

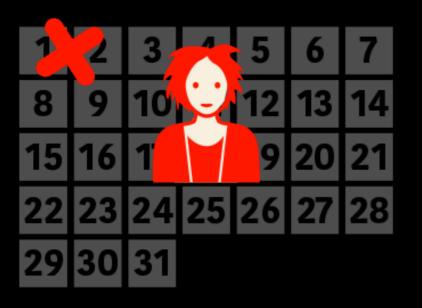
Bitcannery



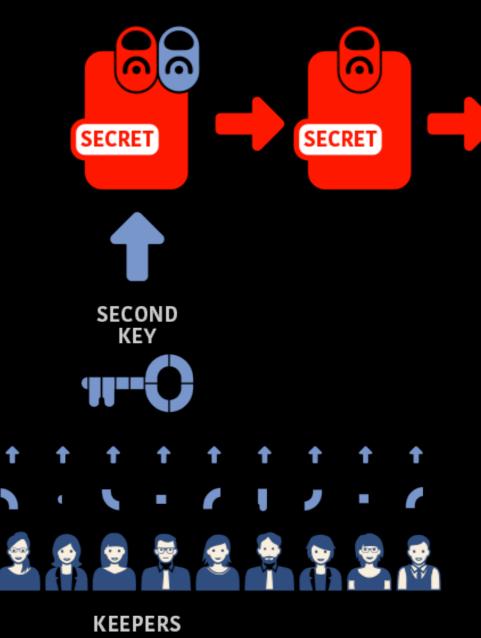
How it works



How it works



YOU MISSED CHECK-IN



SECRET

BLOCKCHAIN

How it works

Opt out from services: notaries human agents centralised password storage

```
Rely on:
cryptography
proper system design
```

```
Open source: audit the code!
```

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+ Deploy New Secret

SECRETS	STATUS	CHECK-IN DATE	PAYMENT	KEEPERS	ACTIONS
sleepy_goldberg_28 Rinkeby 3 oct 13:47	Check-in missed	Last check-in	— Check-in cost	3/3 received	
jovial_mendel_22 secret	Deploying	— Last check-in	— Check-in cost	_	Continue Deploy
inspiring_chandrasekhar_74 hccp19	Check-in missed	— Last check-in	— Check-in cost	3/3 received	

How it looks

Deploy New Secret

You're about to set up a new secret. Secret sharing is powered by the Ethereum blockchain, so you'll need to send two Ethereum transactions in the process.

Secret

Secret is a message you're sharing. It'll be encrypted twice: first time with a public key of the recipient, and the second time with a custom AES key to prevent them from getting the message too early.

Description to remember what it is about (stored locally)

Secret Text

How it looks

Recipient

Recipient's ECC public key

Check-In Interval

Check-in interval, e.g. 1 min, 1 day or 1 month

Keepers

AVERAGE KEEPER PRICE

0.05 ETH (Based On Historical Data)
Per Keeper Per Month

KEEPERS

2

ESTIMATED TOTAL

0.1 ETHTotal Per Month

Request Keepers

How it looks

Get in touch

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References

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https://bitcannery.net
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https://bitcannery.github.io/bitcannery-
dapp/
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https://github.com/bitcannery

https://www.gwern.net/Self-decrypting-files