

# NuCypher KMS: Decentralized Key-Management System

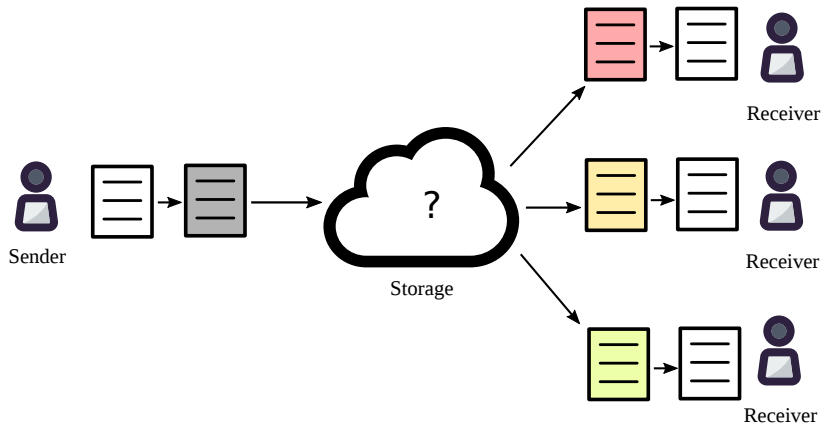
Michael Egorov, CTO

SF Cryptocurrency Devs, 29 Nov 2017



# Why

## Encrypted file sharing



# Why

Encrypted multi-user chats

# Why

## Decentralized Netflix

# Why

Too much power in hands of state actors

# Solution

Proxy re-encryption + decentralization

# What is proxy re-encryption (PRE)

# PRE demo



# Centralized KMS using PRE

Still too much power

# Threshold split-key re-encryption (Umbral)

# Decentralized KMS network

# KMS token

# KMS token

Mining

# Investors

# Early users

# Team



# How to contribute, learn