

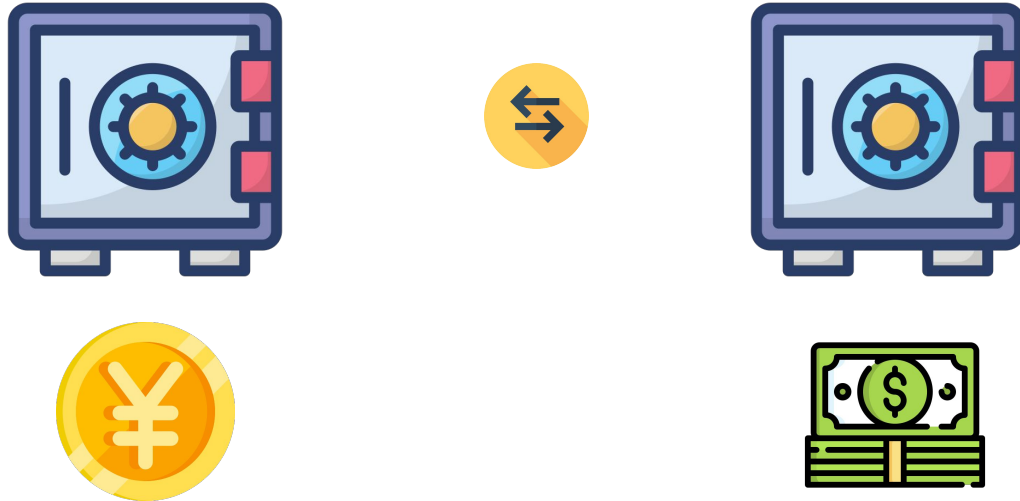
Securing Cross Chain Communication

Billy Pham - Sisu Network



Sisu Network

- Solves cross chain communication (assets transfer, remote contract call)
- Add privacy to in-chain and cross chain transactions



Sisu Network

- 100% Open source
- Built on top of many other open source projects
- Run and tested by an open community



Sisu's community

- Developed by a small team
- Run and tested by our community (we don't have QA).
 - >20,000 user signups
 - 6,000 users with points on testnet
 - ~ 1,000 cross chain transactions per day
 - Testnet is getting better & better.

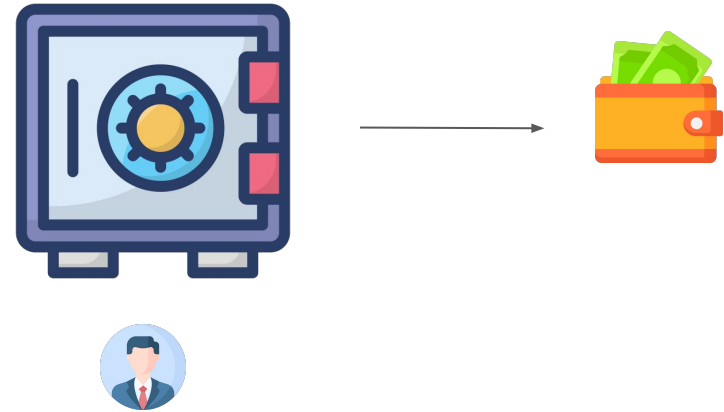
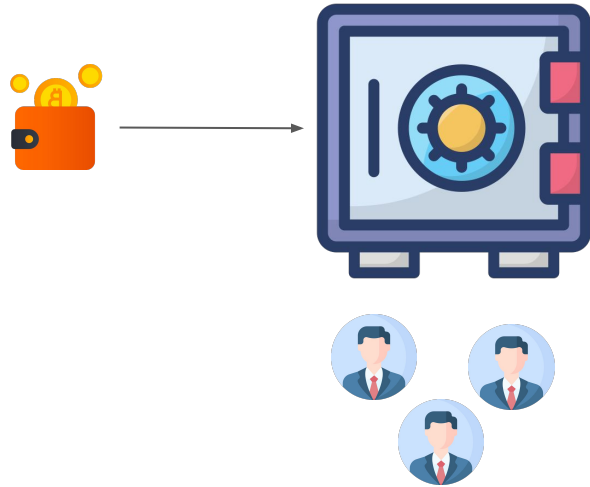


Sisu Architecture

- Consensus layer - BFT
- Threshold Signature Scheme
- Zero Knowledge Proof

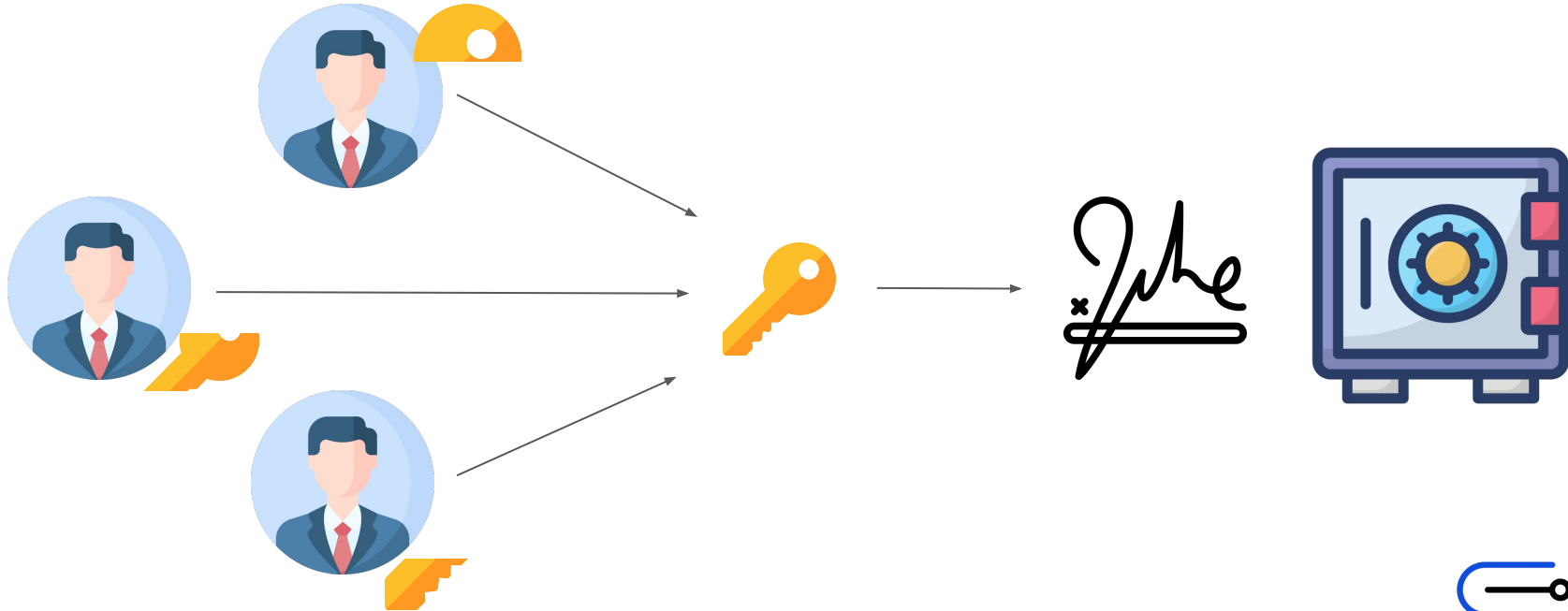


How bridge works



Threshold Signature Scheme

- Allow N people to coordinate and generate single signature.



Bridge Hack

- Axie Hack (\$650M)
 - One company is holding too many keys
- Nomad bridge (\$200M)
 - Smart contract exploitation
- Wormhole (\$200M)
 - Smart contract exploitation



More on blockchain security

- “Bảo mật trên Blockchain Network” by Viettech - Youtube



The image shows a Zoom meeting interface. On the left, there is a vertical stack of four video thumbnails for participants: Chan, Quan, Billy, and Thái. The main area of the screen displays a presentation slide with the following text:

Blockchain Security

VietBay Sharing

Thai Duong
Quan Nguyen
Billy Pham



Conclusion

- Blockchain projects are predominantly open source
 - Absence of big tech companies (Google, Facebook, Microsoft, etc)
 - Usually built by small teams
- Best way to learn is to read a project's source code
- Millions of dollars for bug bounty.

Thank you!

