# HouseChain: Providing Better House Renting Service with Blockchain

"Genesis"
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# **How is House-Renting Now?**



Lack of Transparency



Credit Crisis: Transaction-Fraud



Low Market Efficiency

#### What we want?

# Secure, Reliable, Trusted House-Renting Service

And our solution...

Blockchain+



#### In Blockchain we are Trusted



Tamper-Resistance

Block data is linked and irreversible



Data-Privacy

Encryption and signed by chaincode



High-Availability

Persisted in distributed ledger

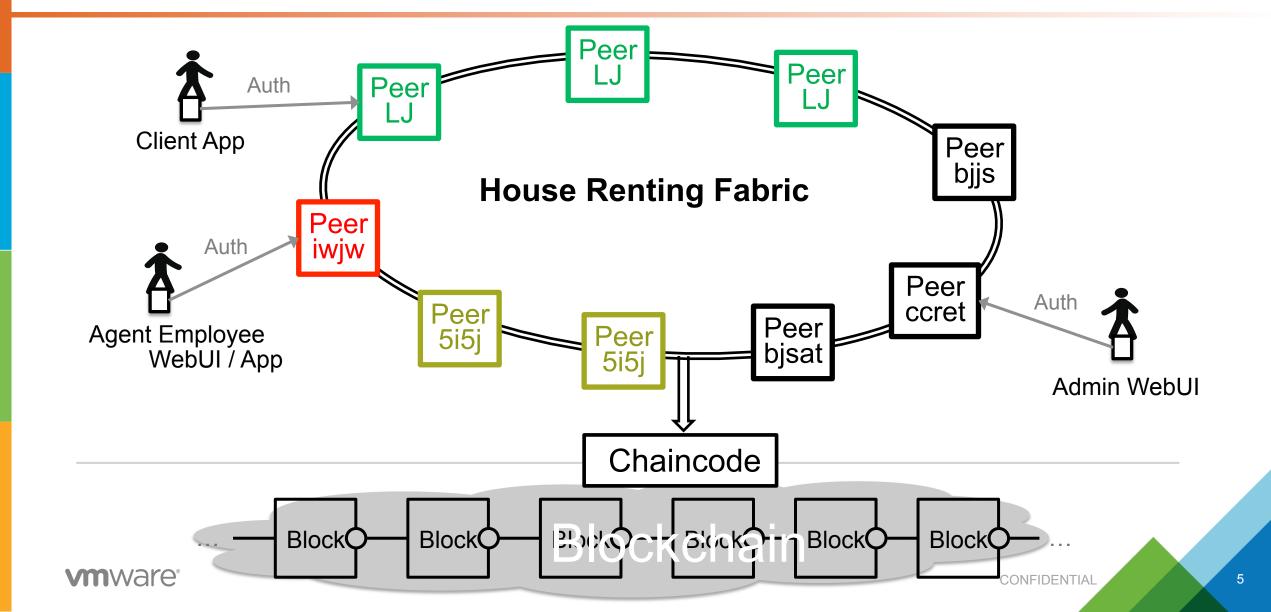


**Data-Integrity** 

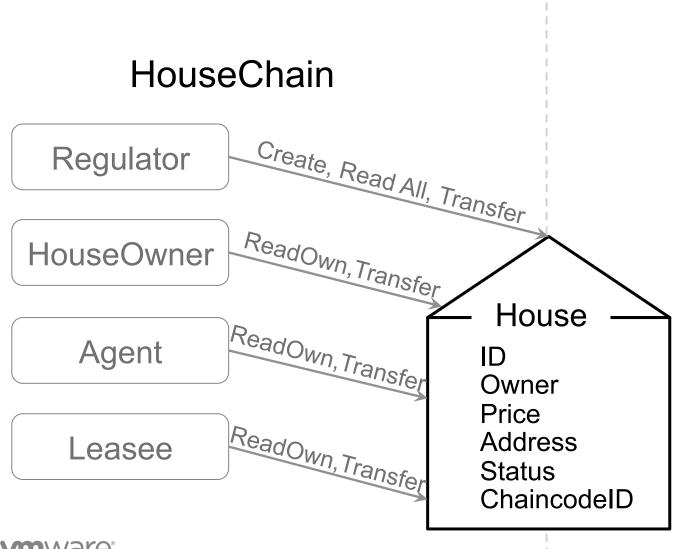
Confirmed via de-centralized consensus



#### HouseChain: based on Fabric



# Our Model (I): Role and Permission



#### Real-World

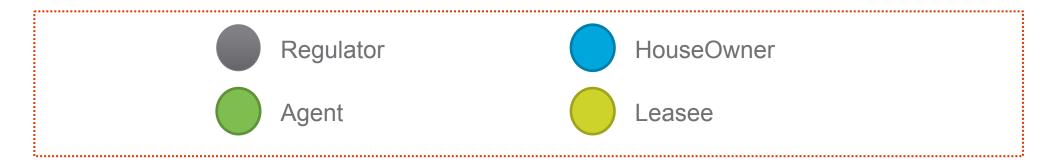
有关部门

房主

中介

租客

### Our Model (II): Workflow of a House



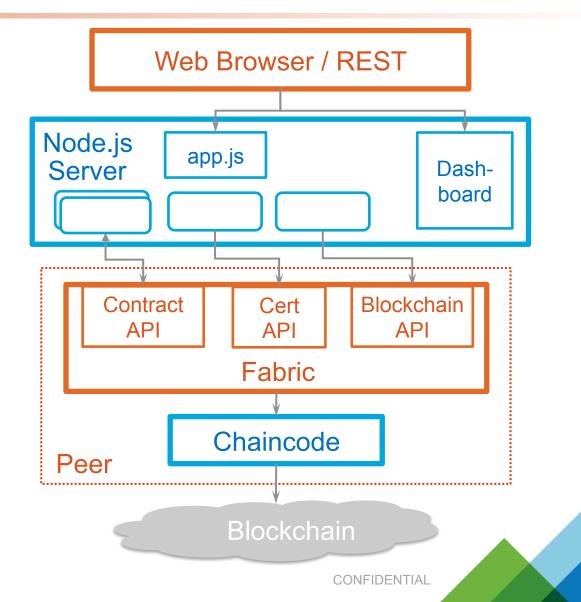






## Our Model (III): Architecture and Tech details

- 4-Peer deployment
  - Based on Docker
  - Transactions on-chain infograph
- Dashboard & Node.js server
  - Client REST
- Our Chaincode on Peer
  - CreateHouse
  - Transfers
  - GetHouses
  - GetHouseDetails



# Now, Demo Time



### **Opportunities for VMware**

- Federated Chain: for Enterprise use-case
- Peer deployment: for VIC and Harbor
- Blockchain storage: for vSAN deployment

Blockchain as a VMware-Service



# Thank you, Q/A



