

# USE CASES FOR PERMISSIONED BLOCKCHAINS

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## OUTLINE

- ▶ Permissioned Blockchains
- ▶ Why Permissioned?
- ▶ Hyperledger Fabric
- ▶ Demo of Hyperledger Fabric

# PERMISSIONED BLOCKCHAINS

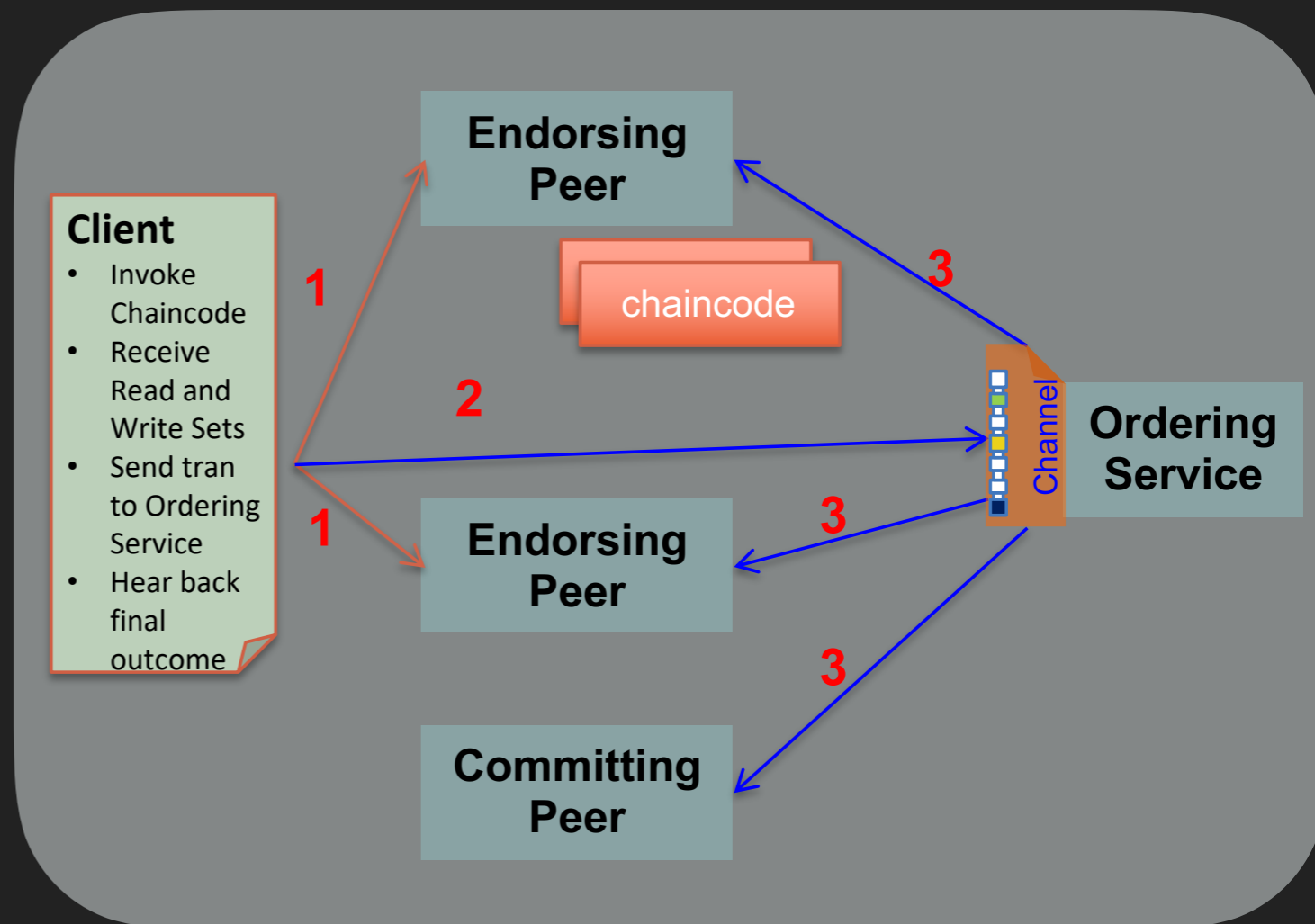
- ▶ Permissioned does not mean private
- ▶ Still decentralized in architecture
- ▶ Permissions can dictate who can run nodes to who can run transactions
- ▶ Consensus can be determined in different ways

### WHY PERMISSIONED?

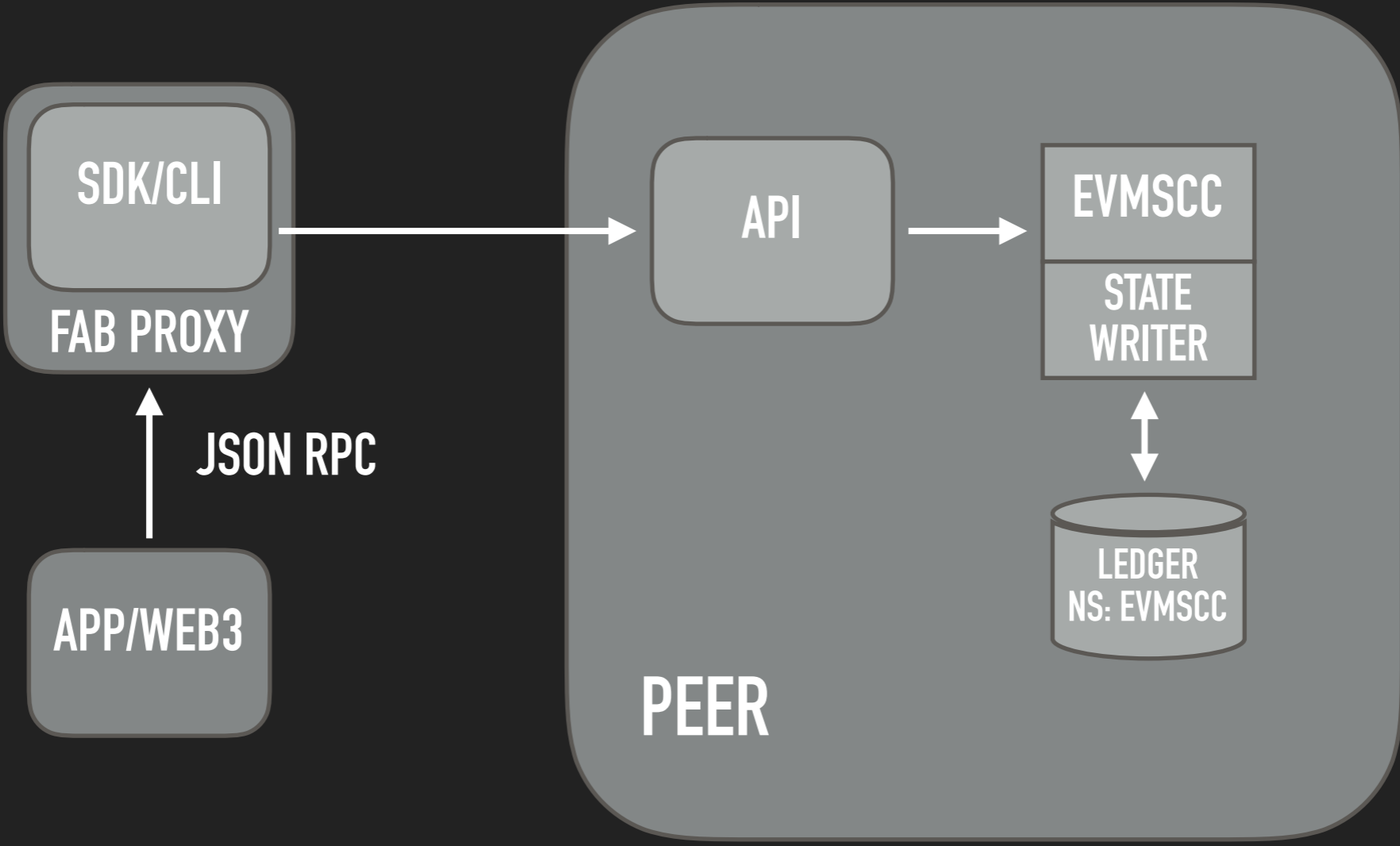
- ▶ Data
- ▶ Privacy
- ▶ Data Separation
- ▶ Consortium
- ▶ Scalability/Latency

## HYPERLEDGER FABRIC

- ▶ Permissioned System
- ▶ Endorsement Policy & Consensus
- ▶ Finality for transactions
- ▶ Walmart
- ▶ Maersk
- ▶ Integration with the EVM



# HYPERLEDGER FABRIC EVM INTEGRATION



**DEMO**

# REFERENCES

- ▶ Hyperledger Fabric EVM: <https://github.com/hyperledger/fabric-chaincode-evm>
- ▶ Fabric-EVM on IBM Kubernetes Service: <https://github.com/swetharepakula/fabric-evm-ibm-container-service>
- ▶ Fabric EVM Demo: <http://fabric-evm-demo.mybluemix.net/>
- ▶ C Mohan Slide Deck: <https://www.facebook.com/notes/mohan-c-mohan/permissionedprivate-blockchains-and-databases/10155027556287295/>
- ▶ IBM Code: <https://ibm.biz/ibmcode>
- ▶ IBM Code Japan: <https://ibm.biz/ibmcodejp> (Japan)



**ANY QUESTIONS?**