USE CASES FOR PERMISSIONED BLOCKCHAINS

JAY GUO (IBM) GUOJIANNAN@CN.IBM.COM
SWETHA REPAKULA (IBM) SREPAKU@US.IBM.COM
USE CASES FOR PERMISSIONED BLOCKCHAINS

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
USE CASES FOR PERMISSIONED BLOCKCHAINS

WHY PERMISSIONED?

- Data
- Privacy
- Data Separation
- Consortium
- Scalability/Latency
USE CASES FOR PERMISSIONED BLOCKCHAIN

HYPERLEDGER FABRIC

- Permissioned System
- Endorsement Policy & Consensus
- Finality for transactions
- Walmart
- Integration with the EVM
USE CASES FOR PERMISSIONED BLOCKCHAIN

HYPERLEDGER FABRIC EVM INTEGRATION

SDK/CLI
FAB PROXY

API

EVMSCC
STATE WRITER

LEDGER
NS: EVMSCC

APP/WEB3

JSON RPC

PEER
DEMO
REFERENCES

- IBM Code: [https://ibm.biz/ibmcode](https://ibm.biz/ibmcode)
- IBM Code Japan: [https://ibm.biz/ibmcodejp](https://ibm.biz/ibmcodejp) (Japan)
ANY QUESTIONS?