

我们今天做什么?

Fabric 应用

传统应用

客户端应用



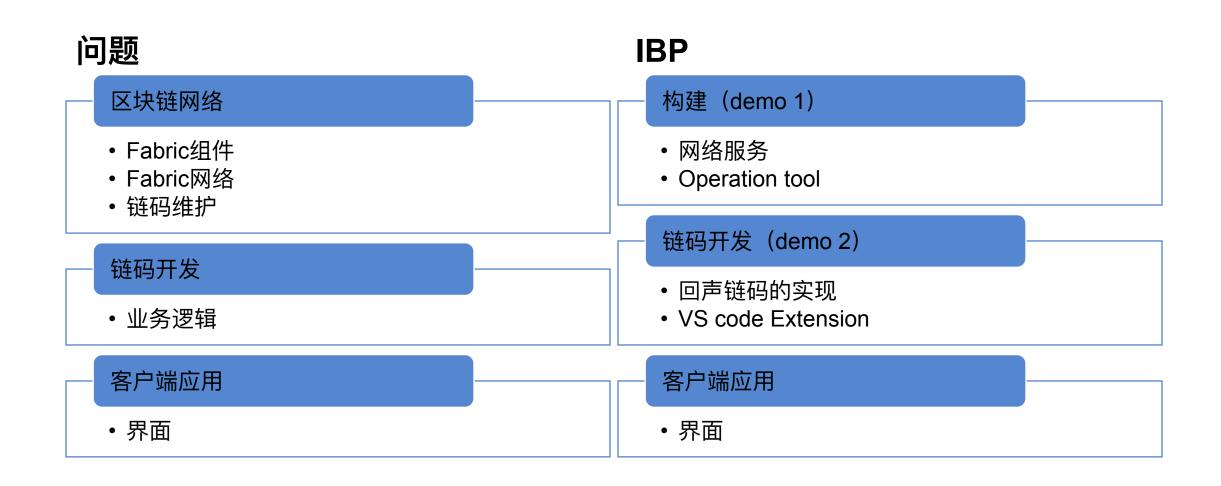
客户端应用

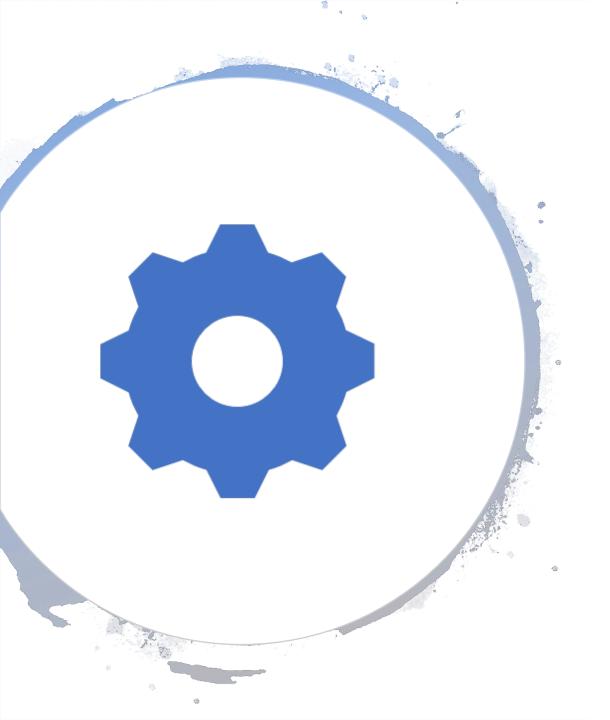


IBM blockchain platform

Figure 1: IBM Blockchain Platform Overview **Ecosystem** Blockchain Marketplace, Network Registry, Asset Exchange, etc.... **Solutions** IBM Food Trust, IBM Blockchain World Wire, IBM Trusted Identity, TradeLens **IBM Extensions** Watson IOT, API Management, DevOps, Messaging, Workflow, etc... **IBM Blockchain Platform** ∰ Dev Tools **Operational Tools** Code Patterns & Sample Use Case Code Always-on by design Support Value- add Deploy only needed Central location **VSCode Extension Rolling Migrations** tools components management console Membership **Smart Contract** Hyperledger Fabric 1.4 Simplified SDK **Identity Management** Management Activation 24x7x365 Open-**HYPERLEDGER FABRIC 1.4** source **IBM Cloud** Deployment **On-premises** IBM CLOUD PRIVATE

问题及拆解

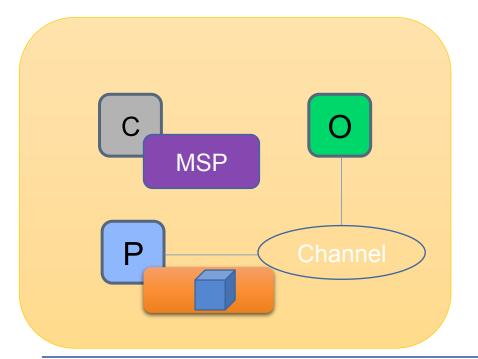




区块链网络搭建

- Fabric组件
- Fabric网络
- 链码管理

Network



Logic

Org A	Peer
Org B	Orderer
Channel	链码
链码服务	业务逻辑

Overview

App 链码服务 Fabric 网络 Fabric 组件 IBP K8s IBM cloud

Response

身份认证	CA
功能性操作	Peer
排序服务	Orderer
网络通道	Channel
部署链码	

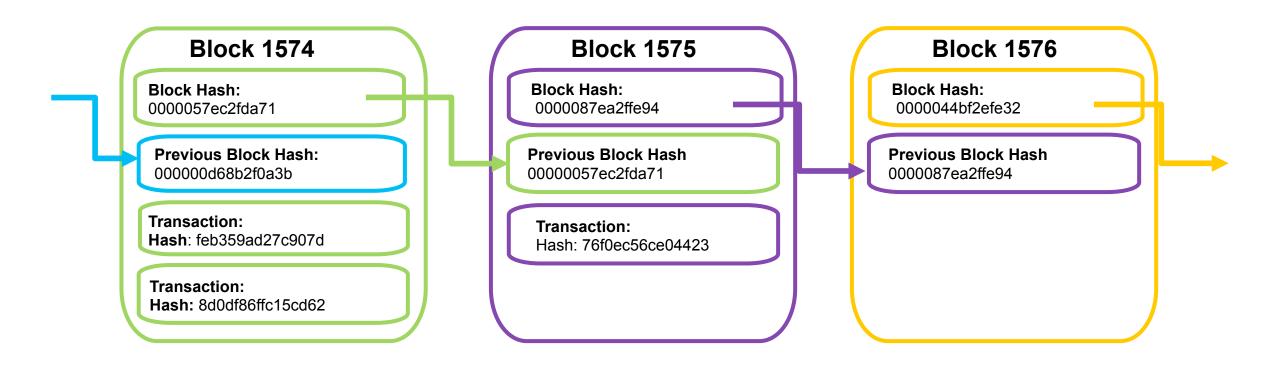
Operation可视化的背后 Fabric组件部署

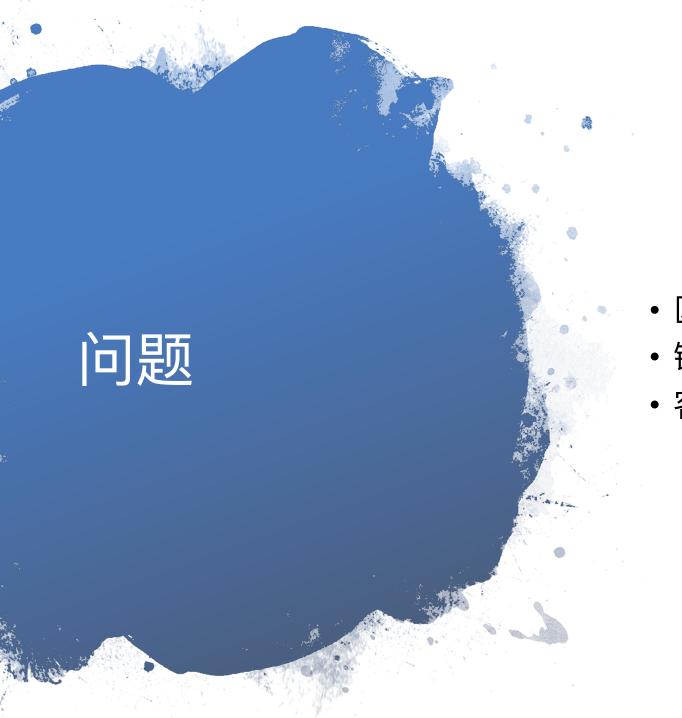
Docker image

https://github.com/ hyperledger/fabricsamples/blob/release-1.4/ first-network/byfn.sh

可视化

减少工作量 创世区块与system channel

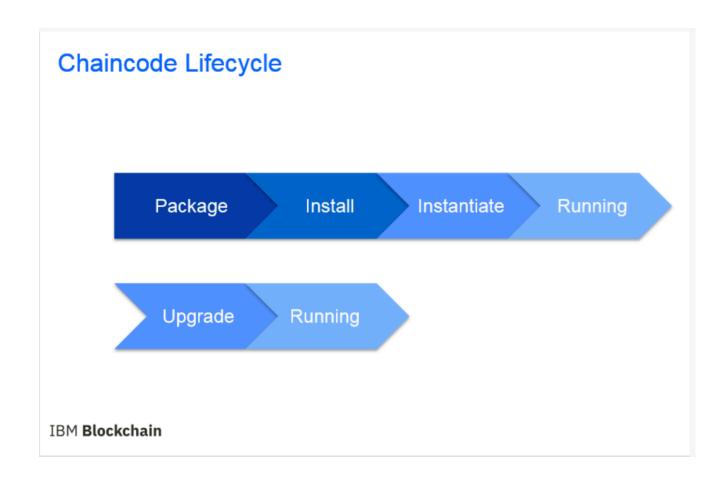




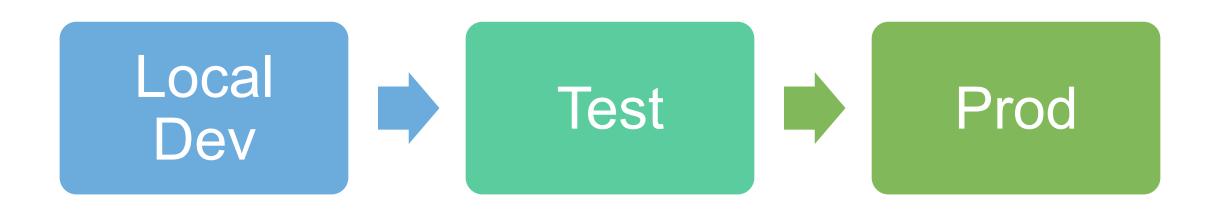
- 区块链网络
- 链码开发
- 客户端应用

链码开发

• 账本读写

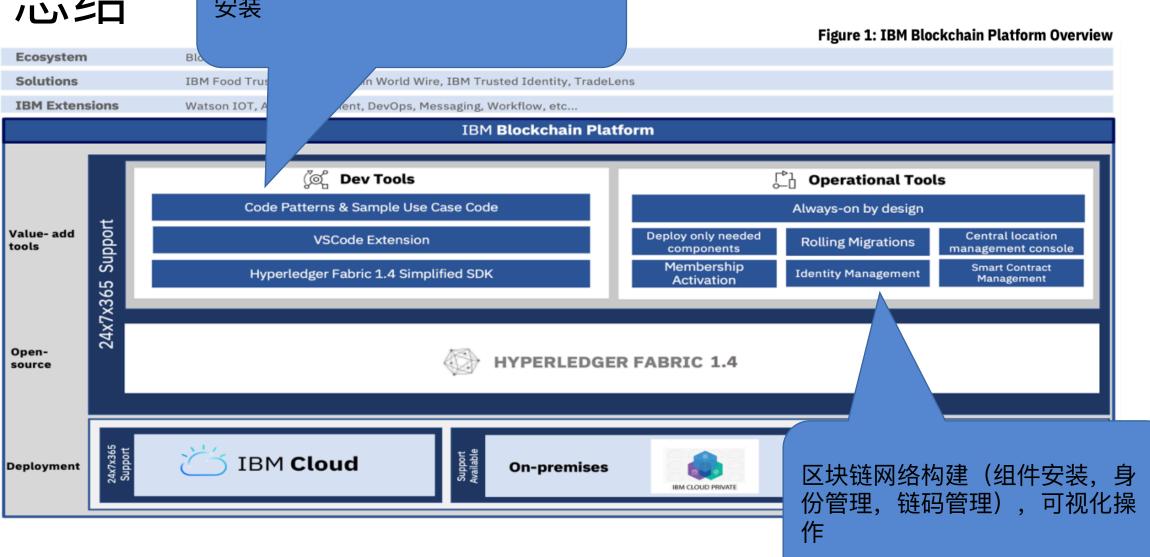


研发工具 环境一致性



总结

链码开发,本地环境,测试,打包,安装



参考资料 & QA

- https://developer.ibm.com/cn/os-academy-hyperledger-fabric/
- https://developer.ibm.com/patterns/decentralized-energy-withhyperledger-fabric-and-ibm-blockchain-saasv2-use-case-1/
- https://cloud.ibm.com/docs/services/blockchain?
 topic=blockchain-ibp-console-smart-contracts#ibp-console-smart-contracts-connect-to-SDK-panel
- https://www.ibm.com/downloads/cas/Q9DGBLV7