

ThoughtWorks®

TECHNOLOGY RADAR SU///// 2017技术雷达峰会

洞察构建未来的技术和趋势

5.13@Beijing



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BLOCKCHAIN IN ENTERPRISE

刘尚奇

AGENDA





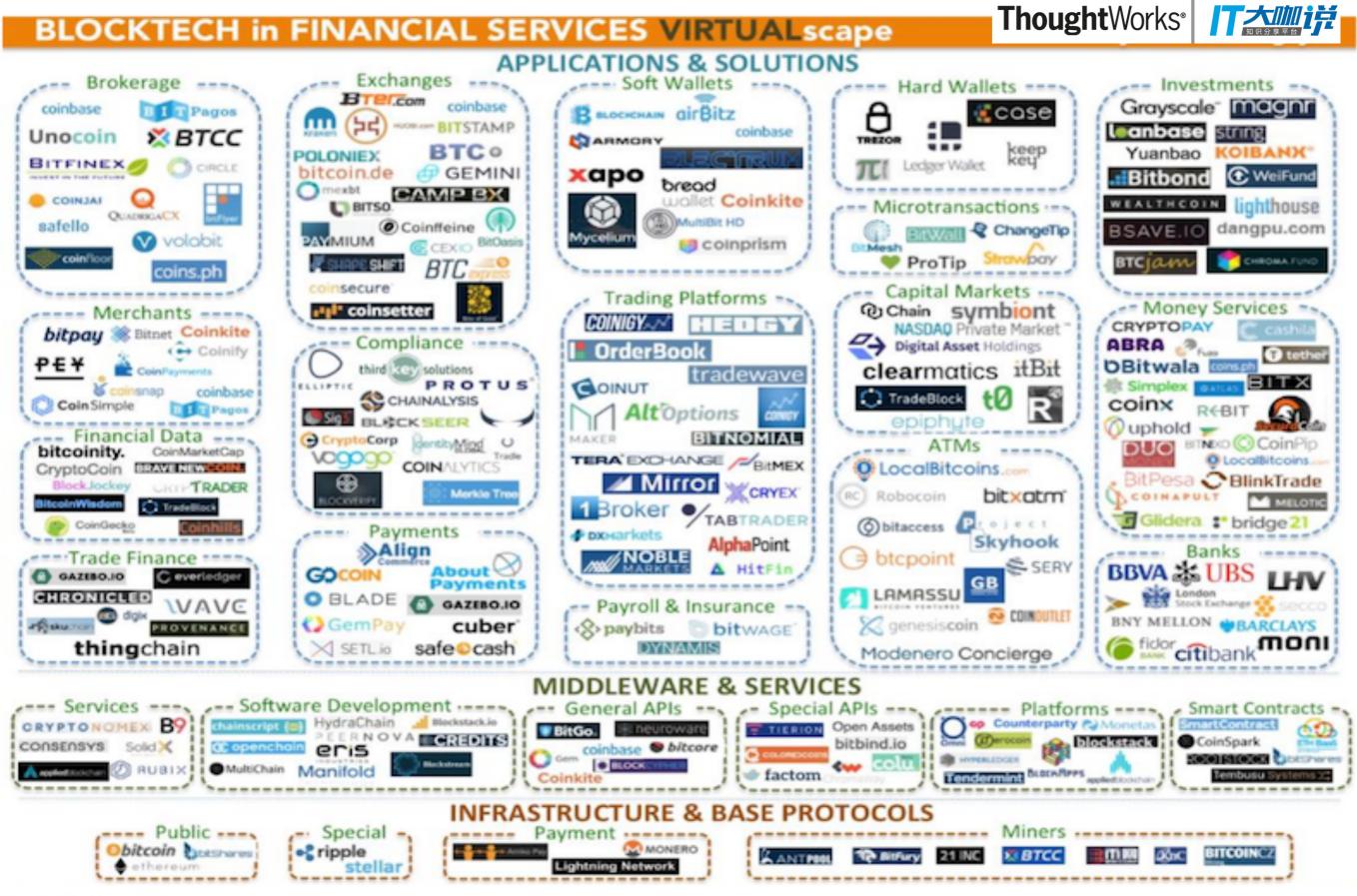




ThoughtWorks Training

CHOOSE YOUR TECH

Choose your blockchain tech on your business



Source: Mougayar, 2015

WHAT NEED TO CONSIDER WIThoughtWorks



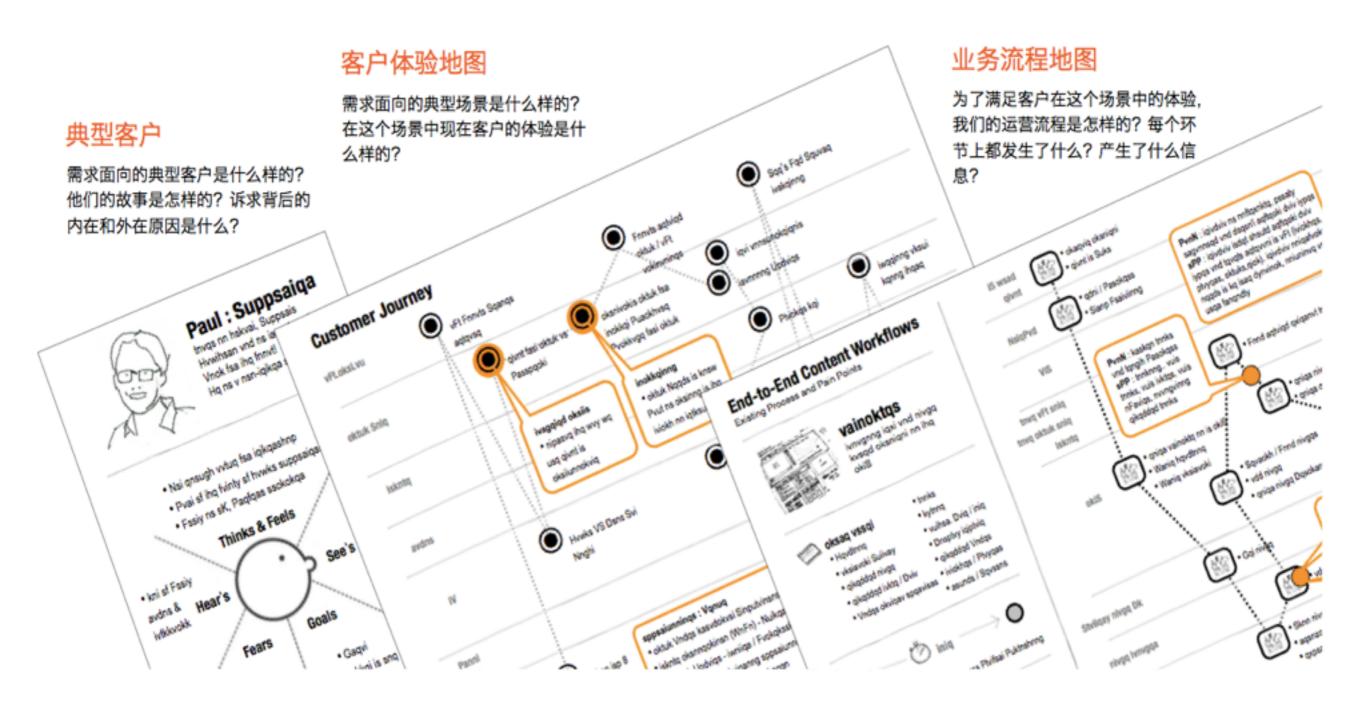




Confusing a limited, foundation-level protocol with a complete business solution



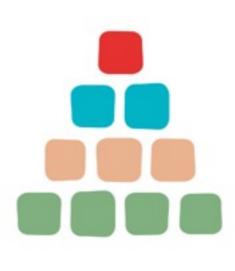
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KEY BIZ INDICATOR ThoughtWorks



Tx Throughput



Tx Confirmation Time

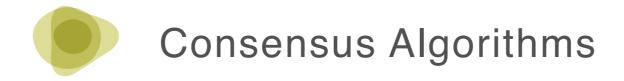
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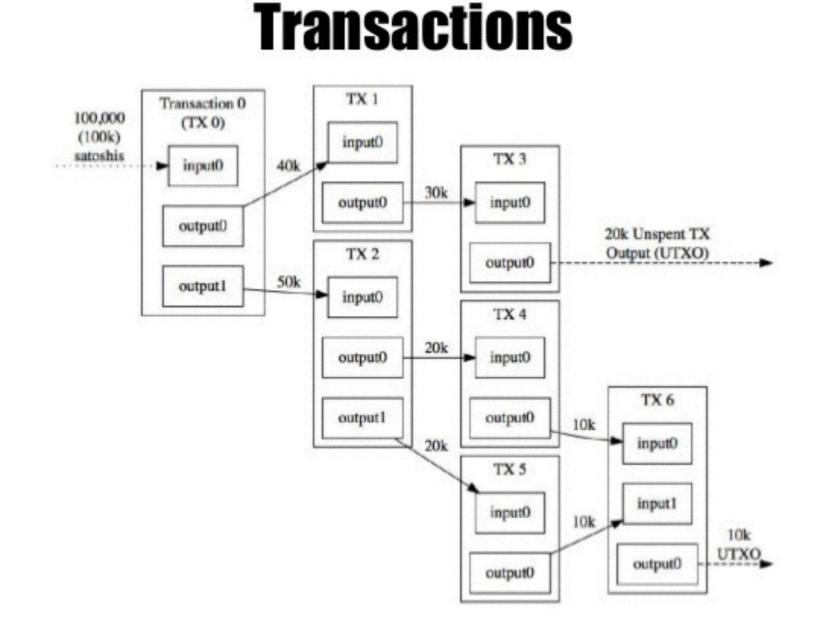
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A.K.A. What do we eat for lunch?

mechanism	decentralized control	low latency	flexible trust	asymptotic security
proof of work	~			
proof of stake	1	maybe		maybe
Byzantine agreement		~	\checkmark	~
Tendermint	1	1		~
SCP (this work)	1	~	1	~

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SMART CONTRACT ThoughtWorks® 「たいのうまでの」



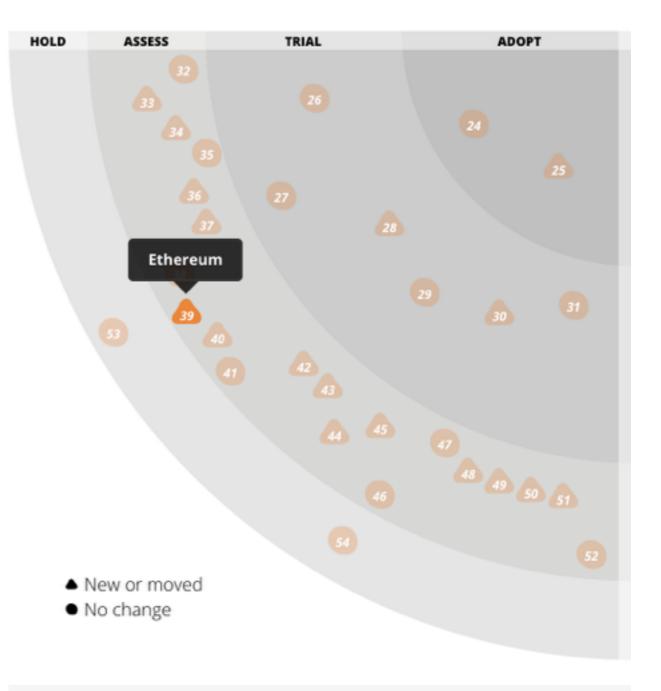
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37. DataStax Enterprise Graph new

38. Electron

39. Ethereum

The hype seems to have peaked for blockchains and cryptocurrencies, as evidenced by the slowdown of previous firehose-scale announcements in this area, and we expect some of the more speculative efforts to die out over time. One of the blockchains, Ethereum, while not universally popular among diehard blockchain aficionados, appears in increasing numbers in new initiatives. Ethereum is a public blockchain with a built-in programming language allowing developers to build "smart contracts", which are algorithmic movements of ether (the Ethereum cryptocurrency) in response to activity happening on the blockchain. R3CEV, the consortium building blockchain tech for banks, built its first proofs of concept on Ethereum. Ethereum has been used to build a distributed autonomous organization (DAO) -one of the first "algorithmic corporations"-although a recent heist of \$150 million in the ether demonstrates that the blockchains and cryptocurrencies are still the Wild West of the technology world.



Unable to find something you expected to see? Your item may have been on a previous radar »

History

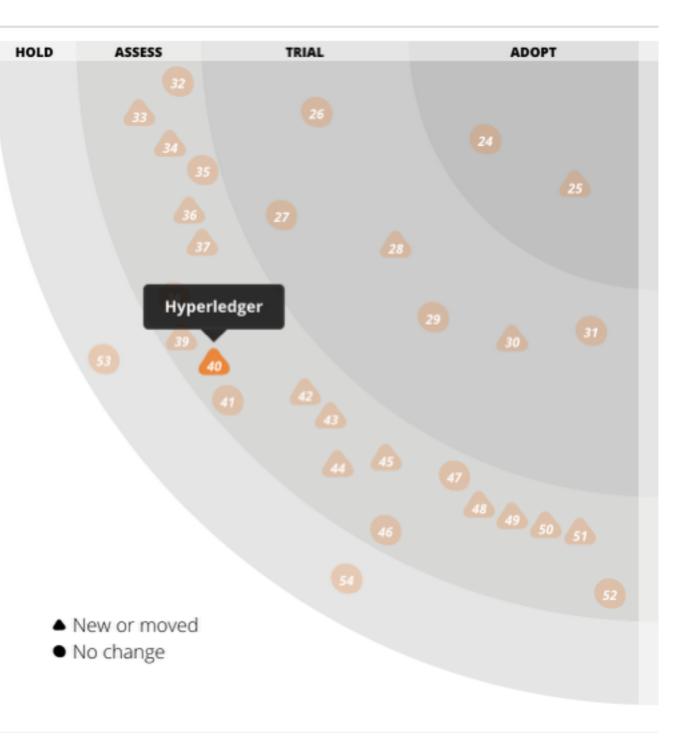
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40. Hyperledger new

Hyperledger is a platform built around blockchain technologies. It consists of a blockchain implementation named Fabric and other associated tools. Disregarding the hype surrounding blockchain, our teams have found it easy to get started with these tools. The fact that it is an open source platform supported by the Linux Foundation also adds to our excitement about Hyperledger.

History

- 41. IndiaStack
- 42. Kafka Streams new
- 43. Keycloak new
- 44. Mesosphere DCOS
- 45. Mosquitto new
- 46. Nuance Mix
- 47. OpenVR
- 48. PlatformIO new
- 49. Tango new

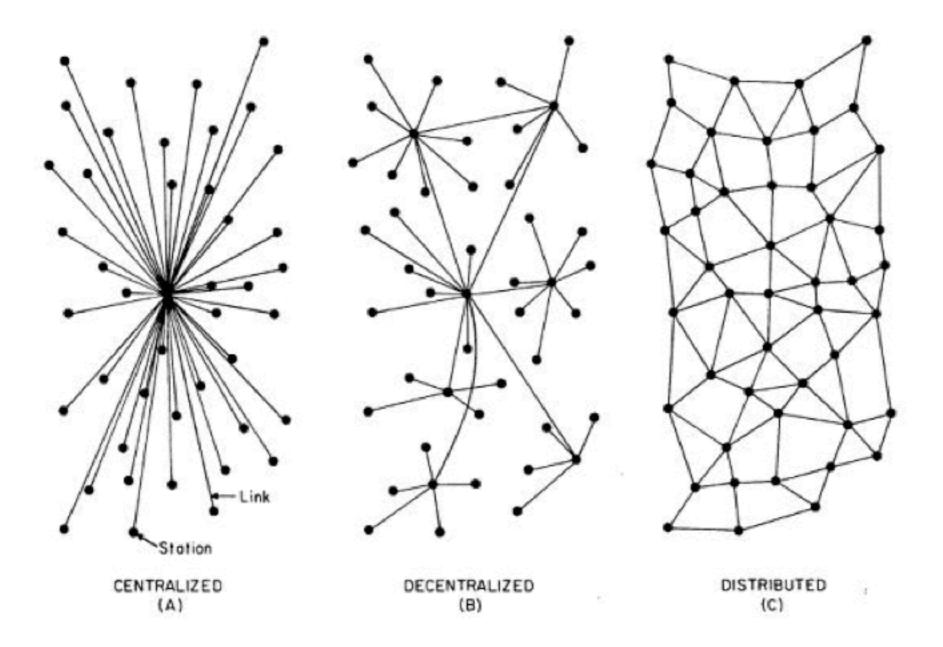


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BUILD YOUR ARCHITECTURE

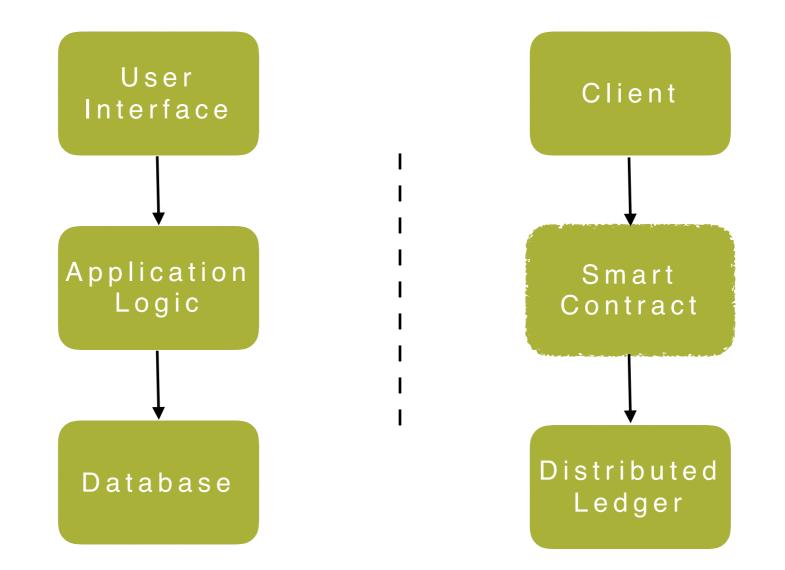
Build your DApp on top of independent services

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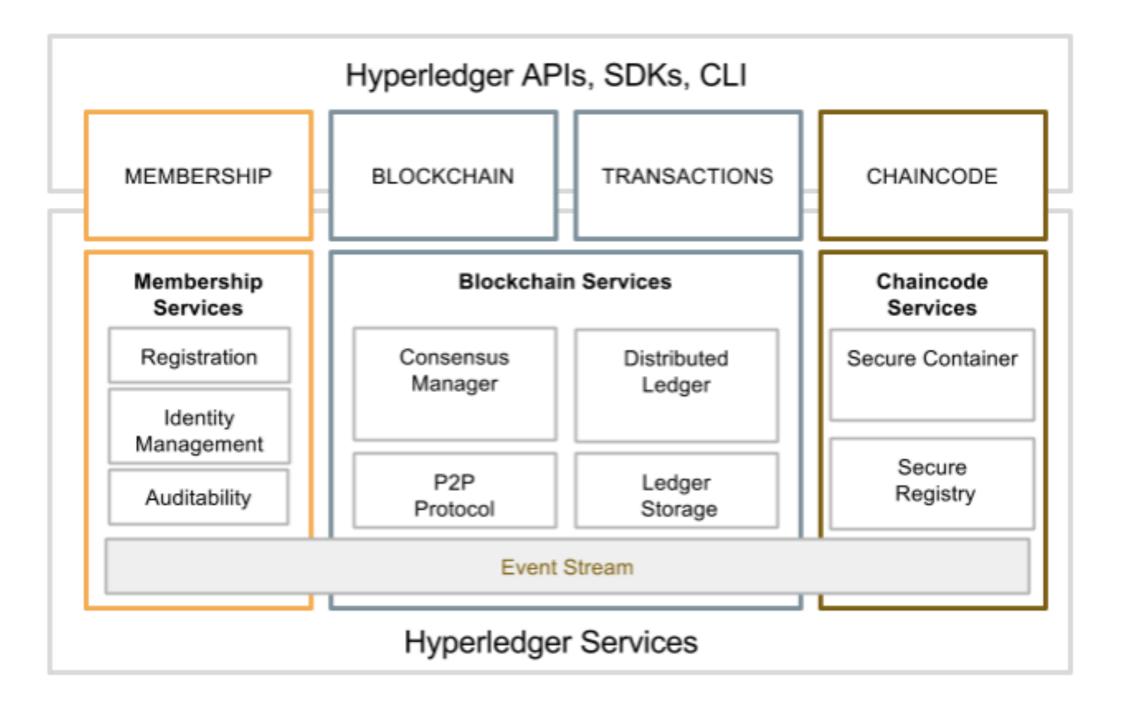


DAPP IS JUST APP

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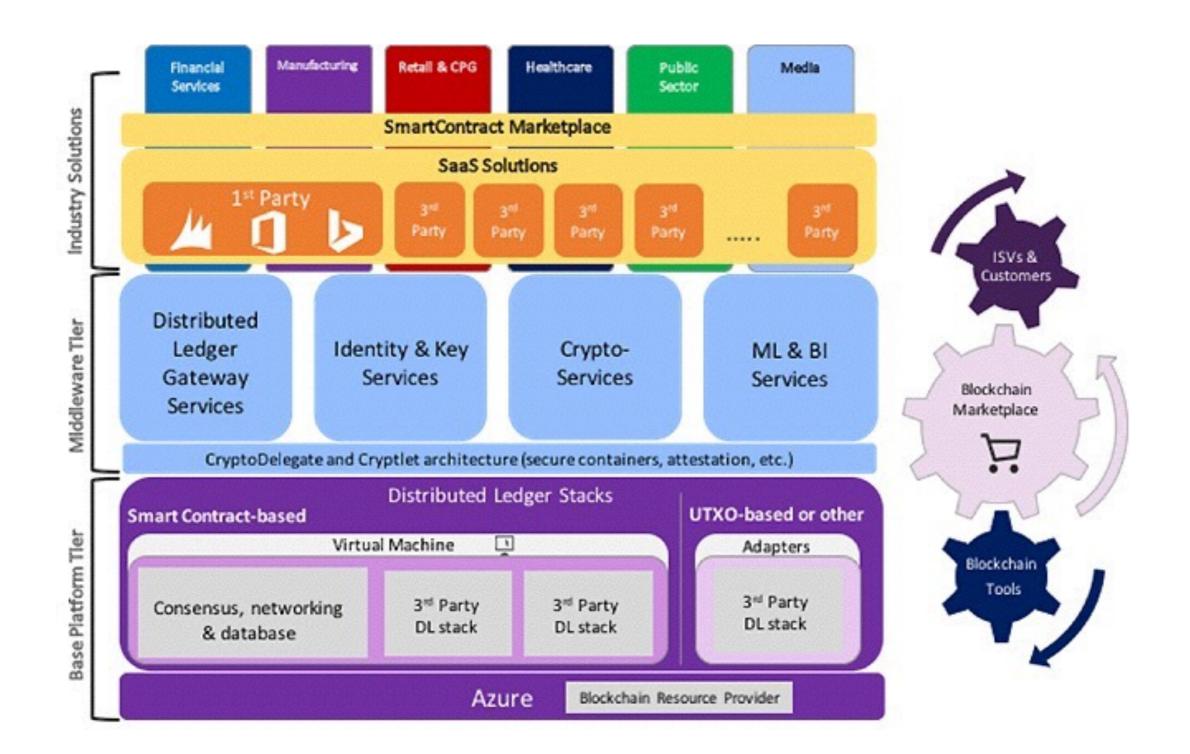


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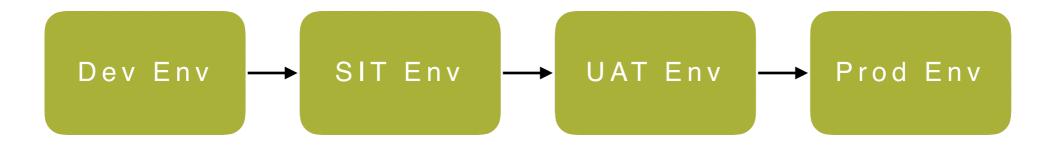


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IMPROVE YOUR DEPLOYMENT

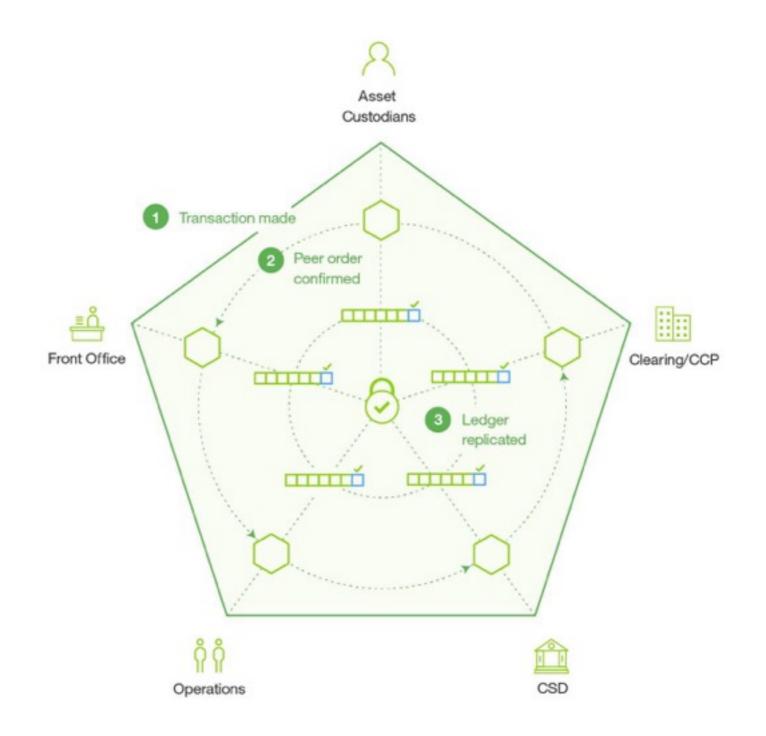
Dockerize your DApp

ENV MANAGEMENT ThoughtWorks®

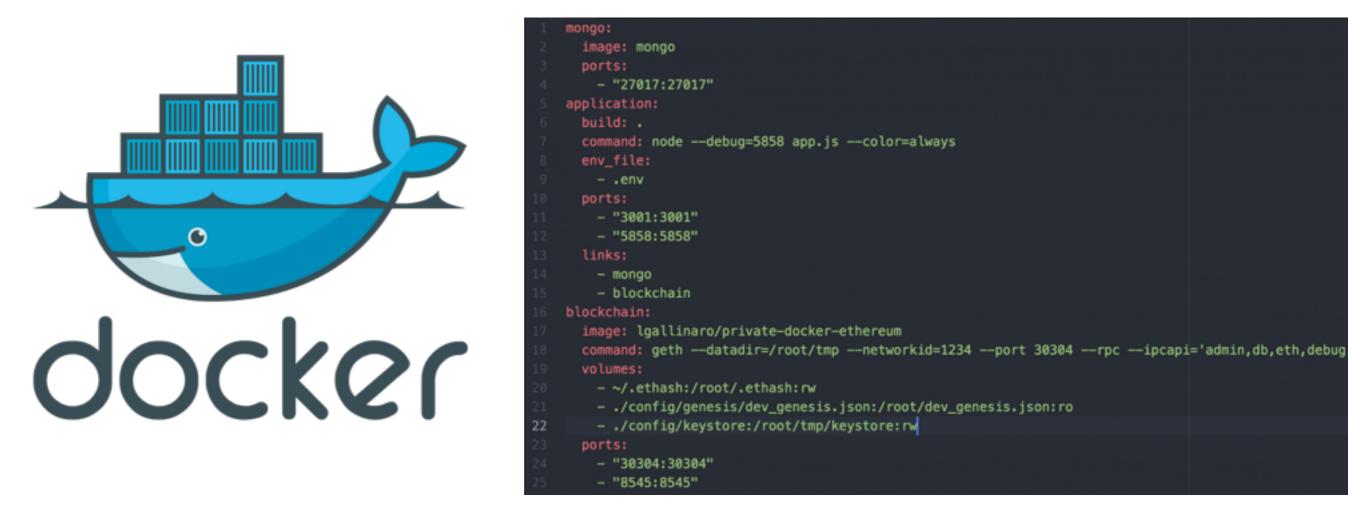


Test your dapp before publish it!

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https://www.thoughtworks.com/insights/blog/blockchain-practice-tamper-proof-read-receipts

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TAKE AWAY

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Build your DApp on top of independent services



Dockerize your DApp



THANKS

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