How Quorum is different from other Blockchain Technologies

Ethereum

- Ethereum is an open source software platform based on the Blockchain technique that enables developers to build and deploy decentralized applications like smart contracts.

- It offers the Decentralized Virtual Machine aka Ethereum Virtual Machine which can execute scripts using an international network of public nodes.

- It was initiated by Vitalik Buterin in late 2013.

- The development for ethereum was funded by an online public crowdsale during July-August 2014, by buying the Ethereum value token (Ether).

Hyperledger

- Hyperledger is an open source platform designed to advance cross-industry blockchain technologies. It is a global association, hosted by the Linux Foundation, along with leaders in finance, Internet of Things, banking, supply chains, manufacturing, and technology.

- Hyperledger acts as an operating system for data-sharing networks, marketplaces, micro-currencies, and decentralized digital communities. It has the potential to vastly lessen the expense and complications in getting things done in the real world.

Corda

- Corda is a distributed ledger open source platform. It is among the most sophisticated platforms to enable the implementation of enterprise blockchain applications.

- Corda was introduced by R3 (R3CEV LLC) consortium. Corda is written in Kotlin, a platform based on the Java Virtual Machine.

- It is not a blockchain. It has no native cryptocurrency.

- Nodes are arranged in an authenticated peer-to-peer network. No message broadcasting.

- Corda is not stuck to any particular consensus algorithm, as one Corda network may contain multiple notaries that provide their guarantees using a variety of different algorithms.

Quorum

- Quorum is a private-permissioned blockchain based on the go-implementation of the Ethereum blockchain.

- Quorum was introduced by J.P. Morgan. It is an enterprise-focused version of the Ethereum Blockchain.

- It is a distributed ledger open source blockchain with no native cryptocurrency.

- It offers both transaction level privacy and network wide transparency.

- Quorum has two consensus algorithms namely RAFT and Istanbul BFT that follows voting-based mechanism.

Difference Between Platforms

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Characteristics	Ethereum	Hyperledger	Corda	Quorum
Programming Language	Solidity(JavaScript,C++, Python)	Golang, Java	Java, Kotlin	Solidity (JavaScript,C++, Python)
Administration	No administration	Linux Foundation	R3 Consortium	J.P Morgan
Smart Contracts	No legal binding	No legal binding	Legally binded	Legally binded
Consensus Algorithm	Proof-of-Work Proof-of-Stake	Practical Byzantine Fault Tolerance	Based on notary nodes	RAFT Istanbul BFT
Scalability	Scalability issue exists	Increased with transactions	Highly scalable	Highly scalable
Privacy	Issue with privacy protection	Identity management service	Identity management service	Identity management service
Currency	Ether	No native cryptocurrency	No native cryptocurrency	No native cryptocurrency

THANK YOU!

Any questions?
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