IBM Launches Industry's Most Secure Enterprise-Ready Blockchain Services for Hyperledger Fabric v 1.0 on IBM Cloud

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First commercial deployment of open source Hyperledger Fabric creates open, integral business networks IBM Cloud provides industry's most secure blockchain environment; Highest certified level of protection for a commercial server for regulated industries.

IBM (NYSE: IBM) today announced the new release of IBM Blockchain, the first enterprise-ready blockchain service based on the Linux Foundation's Hyperledger Fabric version 1.0. The service enables developers to quickly build and host security-rich production blockchain networks on the IBM Cloud, and is underpinned by IBM LinuxONE , the industry's most secure Linux server.

The Linux Foundation's open source Hyperledger Fabric v1.0 is being developed by members of the Hyperledger consortium alongside other open source blockchain technologies. The Hyperledger consortium's Technical Steering Committee recently promoted Fabric from incubator to active state and it is expected to be available in the coming weeks. It is designed to provide a framework for building enterprise-grade blockchain networks that can quickly scale as new network members join and transact at rates of more than 1,000 transactions per second among large ecosystems of users.

IBM's blockchain services are designed to help developers create, deploy and manage blockchain networks on the IBM Cloud, and the company was first-to-market with its High Security Business Network services for regulated environments. Clients ranging from startup Everledger to financial services leaders Bank of Tokyo-Mitsubishi UFJ and Northern Trust are among the organizations running their blockchain applications on the IBM Cloud today.

"IBM has applied decades of experience running the world's largest transaction systems for banks, airlines, governments and retailers, to build the most secure blockchain services for the enterprise," said Marie Wieck, general manager, IBM Blockchain. "IBM's blockchain services are built on IBM's High Security Business Network and designed for organizations that require blockchain networks that are trusted, open and ready for business."

Many think blockchain is an inherently safe technology, but blockchain networks are only as safe as the infrastructures on which they reside. IBM's High Security Business Network offers the world's most secure Linux infrastructure that integrates security from the hardware up through the software stack, specifically designed for enterprise blockchains by providing:

- **Protection from insider attacks** - helps safeguard entry points on the network and fight insider threats from anyone with system administrator credentials
- **The industry's highest certified level of isolation for a commercial system** - Evaluation Assurance Level certification of EAL5+ is critical in highly regulated industries such as government, financial services and healthcare, to prevent the leakage of information from one party's environment to another
- **Secure Service Containers –** to help protect code throughout the blockchain application – effectively encapsulating the blockchain into a virtual appliance, denying access even to privileged users
- **Tamper-responsive hardware security modules** - to protect encrypted data for storage of cryptographic keys. These modules are certified to FIPS 140-2 Level 4, the highest level of security certification available for cryptographic modules
- **A highly auditable operating environment –** comprehensive log data supports forensics, audit and compliance

IBM also announced today the first commercially available blockchain governance tools, and new open-source developer tools that automate the steps it takes to build with the Hyperledger Fabric from weeks to days.

The new blockchain governance tools make it easy to set up a blockchain network and assign roles and levels of visibility from a single dashboard. They help network members set rules, manage membership, and enforce network compliance once the network is up and running.

Once setup is initiated, members can determine the rules of the blockchain and share consent when new

members request to join the network. In addition, the deployment tool assigns each network a Network Trust Rating of 1 to 100. New network members can view this before joining and determine whether or not they can trust the network enough to participate. Organizations can also take steps to improve their Trust Ratings before moving into production.

To make it easier for developers to translate business needs from concept to actual code, IBM Blockchain includes new open-source developer tools for Hyperledger Fabric called Fabric Composer. Fabric Composer can help users model business networks, create APIs that integrate with the blockchain network and existing systems of record and quickly build a user interface. Fabric Composer helps automate tasks that traditionally could take weeks, allowing developers to complete them in minutes.

IBM Blockchain for Hyperledger Fabric v1.0 is now available through a beta program on IBM Bluemix. Hyperledger Fabric is also available on Docker Hub as IBM-certified image available for download at no cost.

About IBM

IBM is the leader in secure open-source blockchain solutions built for the enterprise. As an early member of the Linux Foundation's Hyperledger Project, IBM is dedicated to supporting the development of openly-governed blockchains. IBM has worked with more

than 400 clients across financial services, supply chains, IoT, risk management, digital rights management and healthcare to implement blockchain applications delivered via the IBM Cloud. For more information about IBM Blockchain, visit http://www.ibm.com/blockchain.

InterConnect is IBM's cloud and cognitive conference where more than 20,000 developers, clients and partners are being introduced to the latest advancements in cloud computing through 2,000 sessions, labs and certifications. IBM is positioning both enterprise and startup clients for success with a complete portfolio of cloud services and marquee partnerships, supporting a wide range of applications including: big data, analytics, blockchain and cognitive computing.

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