

Blockchain Service Over Cloud Computing Environment

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Abstract: *Blockchain, began from Bitcoin system, has drawn intense attention from the academic, community because of its decentralization, persistency, obscurity and auditability. In the once decade, the blockchain technology has evolved and came feasible for colorful operations beyond the sphere of finance, but still due to the complexity of blockchain technology, it's veritably delicate and expensive for utmost Inventors or brigades to maintain a blockchain network that supports their operations. Most common inventors or brigades are unfit to insure the trustability and security of the blockchain system. In this paper, we develop a BaaS platform, which provides blockchain service over cloud computing surroundings, similar as network, deployment, system monitoring, smart contracts analysis and testing. Grounded on these services, inventors can concentrate on the business law to explore how to apply blockchain technology more meetly to their business scripts, without bothering to maintain and cover the system.*

Keywords: Blockchain technology, Cloud Computing.

BIBLIOGRAPHY

- [1]. Weilin Zheng, Zibin Zheng 2019 NutBaaS: A Blockchain-as-a-Service Platform
- [2]. S. Nakamoto, "Bitcoin: A peer-to-peer electronic cash system," 2008.
- [3]. M. Swan, Blockchain: Blueprint for a New Economy. O'Reilly Media, 2015.
- [4]. E. Androulaki, A. Barger, V. Bortnikov, C. Cachin, K. Christidis, A. DeCaro, D. Enyeart, C. Ferris, G. Laventman, and Y. Manevich, "Hyperledger fabric: A distributed operating system for permissioned blockchains," in Proc. Conf., 2018, p. 30.
- [5]. P. Hunt, M. Konar, F. P. Junqueira, and B. Reed, "ZooKeeper: Wait-free coordination for Internet-scale systems," in Proc.Conf., vol. 8, no. 9, Boston, 2010.
- [6]. J. Kreps, N. Narkhede, and J. Rao, "Kafka:A distributed messaging system for log processing, Proc. NetDB, 2011, pp.