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Patent Search

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Abstract:

A SYSTEM FOR RESOURCE MANAGEMENT IN BLOCKCHAIN BASED INTERNET OF THINGS (IOT) NETWORK A method of treating the construction of a virtual resource management platform by a number of virtual resource demanders, or by a virtual resource demander and a provider working together, is a method and a communication for sharing virtual resources. The resource demanders and provider participating in the platform share supply information of the virtual resources on the platform. It guarantees the high availability and high expansibility of resources in the blockchain network, Kubernetes is used. The resources in the blockchain network are uniform through the management request information, effectively enhancing the security and simplicity of resource management. Blockchain services are respectively implemented at the edge node and the cloud end node, and partial cloud end capacity is sunk to the edge end, dividing the system into the edge end and the cloud end using edge computing and blockchain technology. Using a BaaS platform, the technique involves receiving a control instruction from a user. The control instruction contains information about a target proxy server, including an IP address.

Complete Specification

Description: A SYSTEM FOR RESOURCE MANAGEMENT IN BLOCKCHAIN BASED INTERNET OF THINGS (IOT) NETWORK

BACKGROUND**Technical Field**

[0001] The embodiments herein generally relate to a system for resource management in blockchain based internet of things (IOT) network.

Description of the Related Art

[0002] A method for a virtual resource management platform set up by a resource provider, a resource demander typically conducts resource transactions, such as resource application, resource update, resource release, and the like. A legal certificate must be used by the node in order to join the blockchain network. The identity authentication mechanism of the current blockchain system is realized based on a digital certificate, a blockchain network comprises member information of a node and certificate management is carried out by various organizations. Industrial applications have a wide range of production units and production equipment, and its management, identity identification, and access control of this equipment are all crucial considerations in industrial security. Networked production in the context of industrial internet presents industrial security challenges for the entire production manufacturing cycle. The current blockchain system is entirely decentralized, and each blockchain node has its own control authority. As a result, no organization or node has any control over the blockchain. The inability of traditional IoT infrastructure to automatically differentiate between different users and provide appropriate access levels is one of its other problems. In order to prevent egotistical or malevolent nodes from encroaching on network resources in an unpredictable dispersed internet of things environment is a challenge that needs to be solved first.

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