Claims

1. A ~~blockchain node service deployment~~ method implemented by one or more processors, the method~~,~~ comprising:

in response to a blockchain node service deployment request from a user, sending the blockchain node service deployment request to a blockchain server to enable the blockchain server to deploy a node service on one or more blockchain nodes;

configuring a trusted application corresponding to the one or more blockchain nodes for a device associated with the user based on configuration information of the one or more blockchain nodes that is returned by the blockchain server; and

sending the trusted application to enable an installation of the trusted application on the device.

2. The method of claim 1, wherein the configuration information comprises addresses of the one or more blockchain node~~s. address(es).~~

3. The method of claim 1, wherein the blockchain node service deployment request comprises identification information of the device associated with the user and one or more blockchain node configuration parameter~~s(s)~~.

4. The method of claim 1, further comprising:

receiving a service account registration request from the user and device information associated with the user.~~;~~

5. The method of claim 4, further comprising:

sending the service account registration request and the device information to a trusted service management server; and

sending the service account registration request to the blockchain server.

~~5~~6. The method of claim ~~4~~5, wherein sending the trusted application comprises:

sending identification information of the device and the trusted application to the trusted service management server, to enable the trusted service management server to install the trusted application on the device.

~~6~~7. The method of claim 1, wherein ~~the blockchain node service deployment method is applied to the Internet of Things, and~~ the device ~~is~~comprises an Internet of Things device.

~~7~~8. One or more computer readable media storing executable instructions that, when executed by one or more processors, cause the one or more processors to perform acts~~A blockchain node service deployment method,~~ comprising:

deploying a node service on one or more blockchain nodes in response to a blockchain node service deployment request from a user;

configuring a trusted application corresponding to the one or more blockchain nodes for a device associated with the user based on configuration information of the one or more blockchain nodes; and

sending the trusted application to a trusted service management server to enable the trusted service management server to install the trusted application onto the device.

~~8~~9. The one or more computer readable media~~method~~ of claim ~~7~~8, wherein sending the trusted application comprises:

sending identification information of the device and the trusted application to the trusted service management server, to enable the trusted service management server to install the trusted application onto the device.

~~9~~10. The one or more computer readable media~~method~~ of claim ~~8~~7, the acts further comprising:

receiving a service account registration request from the user and ~~device~~ information of the device associated with the user to complete a service account registration of the user and binding of ~~a related~~the device.~~; and~~

11. The one or more computer readable media of claim 10, the acts further comprising:

sending the service account registration request and the ~~device~~ information of the device to the trusted service management server.

~~10~~12. The one or more computer readable media~~method~~ of claim ~~7~~8, wherein ~~the blockchain node service deployment method is applied to the Internet of Things, and~~ the device comprises ~~is~~ an Internet of Things device with a trusted security chip or module.

~~11~~13. A ~~blockchain node service deployment~~ system~~,~~ comprising:

one or more processors;

memory;

a blockchain management platform stored in the memory and executable by the one or

more processors, and a blockchain server stored in the memory and executable by the one or more processors, wherein:

the blockchain management platform is configured to respond to a blockchain node service deployment request from a user, send the blockchain node service deployment request to a blockchain server, configure a trusted application corresponding to ~~the~~ one or more blockchain nodes for a device associated with the user based on configuration information of the one or more blockchain nodes returned by the blockchain server, and send the trusted application to enable an installation of the trusted application on the device; and

the blockchain server is configured to respond to the blockchain node service deployment request from the blockchain management platform, deploy a node service~~s~~ in the one or more blockchain nodes, and return the configuration information of the one or more blockchain nodes to the blockchain management platform.

~~12~~14. The system of claim ~~11~~13, further comprising:

a trusted service management server configured to remotely install the trusted application corresponding to the device on the device based on ~~device~~ identification information of the device associated with the user and the trusted application received from the blockchain management platform.

~~13~~15. The system of claim ~~12~~14, further comprising:

a trusted execution environment in the device, which is connected to the trusted service management server, ~~and~~configured to install~~s~~ the trusted application corresponding to the device on the device in response to a remote installation operation from the trusted service management server.

~~15~~16. The system of claim 14, wherein the blockchain management platform is further configured to send~~s~~ the identification information of the device and the trusted application to the trusted service management server, to enable the trusted service management server to install the trusted application on the device.

~~14~~17. The system of claim ~~11~~13, wherein the blockchain management platform is further configured to:

receive a service account registration request from the user and ~~device~~ information of the device associated with the user.~~;~~

18. The system of claim 17, wherein the blockchain management platform is further configured to:

send the service account registration request and the ~~device~~ information of the device to the trusted service management server.~~; and~~

19. The system of claim 18, wherein the blockchain management platform is further configured to:

send the service account registration request to the blockchain server.

~~16~~20. The system of claim ~~11~~13, wherein the ~~blockchain node service deployment~~ system is applied to the Internet of Things, and the device comprises~~is~~ an Internet of Things device with a trusted security chip or module.

~~17. A blockchain node service deployment apparatus, comprising:~~

~~a request sending unit configured to send a blockchain node service deployment request to a blockchain server in response to the deployment request from a user, to enable the~~

blockchain server to deploy node services on one or more blockchain nodes;

an application configuration unit configured to configure a trusted application corresponding to the blockchain nodes for a device associated with the user based on configuration information of the one or more blockchain nodes that is returned by the blockchain server; and

a first sending unit configured to send the trusted application to enable an installation of the trusted application on the device.

18. The apparatus of claim 17, further comprising:

a registration unit configured to receive a service account registration request and device information associated with the user from the user; and

a second sending unit configured to send the service account registration request and the device information to a trusted service management server; and

a third sending unit configured to send the service account registration request to the blockchain server.

19. The apparatus of claim 17, wherein the first sending unit sends identification information of the device and the trusted application to the trusted service management server, to enable the trusted service management server to install the trusted application onto the device.

20. A computing device, comprising:

a processor; and

a memory storing executable codes, the executable codes when executed by the processor, causing the processor to perform the method of any one of claims 1-10.

21. A non-transitory machine-readable storage medium storing executable codes that, when executed by a processor of an electronic device, cause the processor to perform the method of any one of claims 1-10.