

METHOD, DEVICE, MEDIUM AND APPARATUS FOR CDN INTER-NODE ENCRYPTION

The present application claims priority to Chinese Patent Application No. 201710069825.2 filed to China National Intellectual Property Administration on February 8, 2017 and entitled “METHOD, SYSTEM AND DEVICE FOR CDN INTER-NODE ENCRYPTION”, the disclosure of which is hereby incorporated by reference in its entirety.

Technical Field of the present invention

Embodiments of the present invention relate to but are not limited to the communication field, and in particular to a method, system, device, medium and apparatus for CDN inter-node encryption.

Background of the present invention

With the increasing proportion of security-oriented HTTP channels (Hyper Text Transfer Protocol over Secure Socket Layer, HTTPS) applied in network applications, more and more websites are migrated to HTTPS. For a Content Delivery Network (CDN) responsible for infrastructures in the Internet, how to efficiently provide full-link encryption becomes a difficult problem. CDN nodes mostly adopt a multi-level cache mechanism, and the CDN nodes include edge nodes and parent nodes classified according to geographical locations of large areas. The HTTPS for full link means that all links among clients, edge nodes, parent nodes and source stations employ HTTPS communication mode. Since both the links from the clients to the edge nodes and the links from the parent nodes to the origin server involve the communication with a third party, optimization means are limited. Particularly, it is also necessary to implement a complete HTTPS process between the edge node and the parent node. Consequently, the loads on nodes at both ends participating in operation are relatively high.

Summary of the present invention