Interface-Based Anycast Routing Information Protocol

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ABSTRACT

Anycast is a new " one to one-of-many" communication method in IPv6 network. It provides a stateless best effort delivery of an anycast packet to at least one host, and preferably only one host. Since forwarding an anycast packet is according to the contents of routing table of the router, the success of anycast service depends on the construction and maintenance of the routing table. However most of current routing protocols, which are modified from unicast or multicast routing protocols, find the best route for anycast packets at the expense of increasing the memory space needed for the router. Therefore, we propose the " interface-based anycast routing information protocol" IBARIP method that can find the best route while the memory requirement of router is reduced. The simulation results show the proposed IBARIP can significantly decrease the memory space needed for the anycast routing information and finds the shortest route. Key Words Anycast ,Anycast Routing Protocol.

Keywords : Anycast routing protocol ; Anycast

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