

Performance evaluation of the routing distribution process in a multi-area OSPF network environment over IPv4 and IPv6 infrastructure

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Abstract: This study focuses on evaluating the performance of the routing distribution process in multi-area OSPF networks, on both IPv4 and IPv6 platforms. The practical context requires a deep understanding of route management in complex environments. The objective of the topic is to identify challenges and effective solutions when applying OSPF in large networks with diverse IP addresses. The methodology includes theoretical analysis combined with practical experiments on a lab platform. Expected results provide users with necessary information to optimize network configuration and improve service performance.

Keywords: Multi-area OSPF, IPv4, IPv6, route distribution performance, network management