

IPv4 to IPv6 communication transition technology and simulation

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Abstract: In the current context, transitioning from IPv4 to IPv6 is an important issue to address the shortage of IP addresses. This topic focuses on researching transition technologies and simulating this transition process. The objective is to build a simulation system for IPv4 to IPv6 communication transition, applying a combination of theoretical and experimental methods to enhance transition efficiency. The expected results will make significant contributions to the field of telecommunications and information networks, supporting the preparation for real-world transition.

Keywords: Communication conversion, IPv4, IPv6, Simulation