

Application of MPLS label switching technology in VPN virtual private networks and simulation on GNS3.

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Abstract: In the modern context, the use of Virtual Private Networks (VPNs) is increasingly popular to ensure security and efficiency for network systems. This topic focuses on applying Multiprotocol Label Switching (MPLS) technology in building and deploying Virtual Private Networks (VPNs). The objective is to address the problem of optimizing data transmission performance while ensuring information security. The research method combines theory with experimentation, including analyzing MPLS characteristics and network simulation on the GNS3 platform. Through this, the topic is expected to contribute a useful solution for effective VPN deployment.

Keywords: MPLS, VPN, GNS3, Label switching, Simulation