

Load balancing and quality of service issues in the three-tier network model

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Abstract: This topic focuses on researching the issue of load balancing and maintaining Quality of Service (QoS) in three-tier networks, a common network architecture today. Through theoretical and experimental analysis, the project aims to develop optimization solutions to enhance network resource utilization efficiency and ensure QoS for critical services. The research methodology includes evaluating existing load balancing algorithms and proposing improvements to suit the diverse needs of network applications. The project seeks to contribute to the field of network traffic management, providing practical benefits for network developers and operators.

Keywords: load balancing, quality of service (QoS), three-layer network model