



Network Performance and Optimization Guide

Network systems performance and capacity planning

Network Performance Optimization Guide

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Network Performance and Optimization Guide Shaun Hummel, 2013-10-26 Network Performance and Optimization Guide is an essential reference for systems performance optimization and capacity planning. The book explains principles, methodologies, and techniques for optimizing network performance and reliability. The guide starts with a foundational chapter that teaches network fundamentals. The following chapter discusses network performance monitoring and selection of tools. The book continues with protocols including packet structure, protocol efficiency, traffic analysis, and performance calculations. There are solutions for increasing capacity that include link bandwidth, campus design, wireless features, and system upgrades. In addition, topics such as WAN optimization, TCP route optimization, and resiliency are discussed. The performance solutions are used to develop optimized campus, wireless, WAN, and cloud design. There are troubleshooting case study examples as well that teach assessment analysis and performance solutions. Cisco WAAS and Riverbed Optimizers, Network Protocols and Packet Analysis, Application Acceleration Techniques, Network Capacity Planning, Cycle High Availability, and Network Resiliency. Performance Routing, QoS, MPLS, TE, Voice, Video, and Wireless Optimization, F5 and Cisco Load Balancer Solutions, TCP Flow Optimization, TFO, OPNET Troubleshooting, Network Performance.

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