

Performance Analysis in High-Speed Wide Area IP over ATM Networks: Top-to-Bottom End-to-End Monitoring

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Abstract

We describe an approach to the analysis of the performance of distributed applications in high-speed wide-area networks. The approach is designed to identify all of the issues that impact performance, and isolate the causes due to the related hardware and software components. We also describe the use of a distributed parallel data server as a network load generator that can be used in conjunction with this approach to probe various aspects of high-speed distributed systems from top-to-bottom of the protocol stack and from end-to-end in the network. To demonstrate the utility of this approach we present the analysis of a TCP over ATM problem that was uncovered while developing this methodology. This work was done in conjunction with the ARPA-funded MAGIC gigabit testbed.

Contents

1.0 Introduction	3
2.0 Monitoring Mechanisms	3
2.1 MAGIC and the Distributed Parallel Storage System (DPSS)	3
2.2 OS and Network Layer Monitoring	7
3.0 Monitoring Tools	7
3.1 Common logging format	7
3.2 Log File Analysis Tools	8
3.4 OS and Network Analysis Tools	8
4.0 Analysis and Results	9
4.1 Network Tuning	9
4.2 DPSS Performance	10
4.3 End-to-End Performance Experiments	11
5.0 Computer Platform-Based Performance Issues	25
6.0 Conclusions	27
7.0 Future Work	28
8.0 References	28

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 - The Rise of Digital Reading Performance Analysis Of Atm Networks
 - Advantages of eBooks Over Traditional Books
2. Identifying Performance Analysis Of Atm Networks
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Performance Analysis Of Atm Networks
 - User-Friendly Interface
4. Exploring eBook Recommendations from Performance Analysis Of Atm Networks
 - Personalized Recommendations
 - Performance Analysis Of Atm Networks User Reviews and Ratings
 - Performance Analysis Of Atm Networks and Bestseller Lists

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 - Performance Analysis Of Atm Networks Compatibility with Devices
 - Performance Analysis Of Atm Networks Enhanced eBook Features
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8. Staying Engaged with Performance Analysis Of Atm Networks
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Performance Analysis Of Atm Networks
9. Balancing eBooks and Physical Books Performance Analysis Of Atm Networks
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Performance Analysis Of Atm Networks
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Performance Analysis Of Atm Networks
 - Setting Reading Goals Performance Analysis Of Atm Networks
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Performance Analysis Of Atm Networks
 - Fact-Checking eBook Content of Performance Analysis Of Atm Networks
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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