

A survey of the workload forecasting methods in cloud computing

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Abstract

A few years ago, cloud computing had widely altered the way of computation and storage. It is quite challenging for cloud service providers to maintain the required Quality of Service (QoS) standard without violating a service level (SLA) agreement. To improve the performance of the cloud, accurate workload prediction plays a vital role. Cloud computing promises scalability, on-demand service, and virtualization to improve the Quality of Service (QoS) offered to end-users. In this paper, we present a comprehensive survey of workload prediction approaches in cloud environments. It also highlights the emerging challenges like resource wastage, excess power consumption, and quality of service violations, etc.

Keywords: Cloud Computing · Workload Prediction · Scalability · Classification

1. Introduction

Cloud computing continues as a model for IT service delivery at an astonishing speed driven by a wide range of interactive and interactive features. It is widely used for computation and storage over the internet for various domains like Marketing, Business, Education, Banking, Entertainment, etc. Instead of storing files on a portable hard drive or local storage device, cloud-based storage makes it easier to store them in a remote database. The popularity and usage of cloud computing are increasing day by day, cloud-based applications make people highly dependent on it for their day-to-day activities. It offers several advantages compared to traditional computer models along the way including reduced costs and increased flexibility. Cloud computing is a much-needed delivery of IT resources to the Internet at pay-as-you-go rates. Cloud is present at remote locations rather than local servers. It serves several benefits like Broad Network, Elasticity, Data Security, Scalable, On-Demand Service, Virtualiza-

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Table of Contents Survey Of Methods To Abeb Workload

1. Understanding the eBook Survey Of Methods To Abeb Workload
 - The Rise of Digital Reading Survey Of Methods To Abeb Workload
 - Advantages of eBooks Over Traditional Books
2. Identifying Survey Of Methods To Abeb Workload
 - 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 Survey Of Methods To Abeb Workload
 - User-Friendly Interface
4. Exploring eBook Recommendations from Survey Of Methods To Abeb Workload
 - Personalized Recommendations
 - Survey Of Methods To Abeb Workload User Reviews and Ratings
 - Survey Of Methods To Abeb Workload and Bestseller Lists
5. Accessing Survey Of Methods To Abeb Workload Free and Paid eBooks
 - Survey Of Methods To Abeb Workload Public Domain eBooks

- Survey Of Methods To Abeb Workload eBook Subscription Services
- Survey Of Methods To Abeb Workload Budget-Friendly Options
- 6. Navigating Survey Of Methods To Abeb Workload eBook Formats
 - ePub, PDF, MOBI, and More
 - Survey Of Methods To Abeb Workload Compatibility with Devices
 - Survey Of Methods To Abeb Workload Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Survey Of Methods To Abeb Workload
 - Highlighting and Note-Taking Survey Of Methods To Abeb Workload
 - Interactive Elements Survey Of Methods To Abeb Workload
- 8. Staying Engaged with Survey Of Methods To Abeb Workload
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Survey Of Methods To Abeb Workload
- 9. Balancing eBooks and Physical Books Survey Of Methods To Abeb Workload
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Survey Of Methods To Abeb Workload
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Survey Of Methods To Abeb Workload
 - Setting Reading Goals Survey Of Methods To Abeb Workload
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Survey Of Methods To Abeb Workload
 - Fact-Checking eBook Content of Survey Of Methods To Abeb Workload
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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