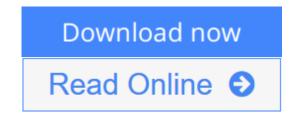# Node.js High Performance

By Diogo Resende

Node.js High Performance By Diogo Resende

Take your application to the next level of high performance using the extensive capabilities of Node.js

About This Book

- Analyze, benchmark, and profile your Node.js application to find slow spots, and push it to the limit by eliminating performance bottlenecks
- Learn the basis of performance analysis using Node.js
- Explore the high performance capabilities of Node.js, along with best practices

In Detail

Node.js is a tool written in C, which allows you to use JavaScript on the server-side. High performance on a platform like Node.js is knowing how to take advantage of every aspect of your hardware, helping memory management act at its best, and correctly deciding how to architect a complex application. Do not panic if your applications start consuming a lot of memory; instead spot the leak and solve it fast with Node.js by monitoring and stopping it before it becomes an issue.

This book will provide you with the skills you need to analyze the performance of your application and monitor the aspects that can and should be. Starting with performance analysis concepts and their importance in helping Node.js developers eliminate performance bottlenecks, this book will take you through development patterns to avoid performance penalties. You will learn the importance of garbage collection and its behaviour,and discover how to profile your processor, allowing better performance and scalability.

You will then learn about the different types of data storage methods. Moving on, you will get to grips with testing and benchmarking applications to avoid unknown application test zones. Lastly, you will explore the limits that external components can impose in your application in the form of bottlenecks.

By following the examples in each chapter, you will discover tips to getting better performing applications by avoiding anti-patterns and stretching the limits of your environment as much as possible.

What You Will Learn

- Develop applications using well-defined and well-tested development patterns
- Explore memory management and garbage collection to improve performance
- Monitor memory changes and analyze heap snapshots
- Profile the CPU and improve your code to avoid patterns that force intensive processor usage
- Understand the importance of data and when you should cache information.
- Learn to to always test your code and benchmark when needed
- Extend your application's scope and know what other elements can influence performance

Who This Book Is For

This bookis for Node.js developers who want a more in-depth knowledge of the platform to improve the performance of their applications. Whether you have a base Node.js background or you are an expert who knows the garbage collector and wants to leverage it to make applications more robust, the examples in this book will benefit you.

Style and approach

This is a practical guide to learning high performance, which even the least experienced developer will comprehend. Small and simple examples help you test concepts yourself and easily adapt them to any application, boosting its performance and preparing it for the real-world.

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Editorial Review

About the Author

Diogo Resende

Diogo Resende is a passionate developer obsessed with perfection in everything he works on. He loves everything about the Internet of Things, which is the ability to connect everything together and always be connected to the world. He studied computer science and graduated in engineering. At that time, he deepened his knowledge of computer networking and security, software development, and cloud computing. Over the past 10 years, Diogo has embraced different challenges to develop applications and services to connect people with embedded devices around the world, building a bridge between old and uncommon protocols and the Internet of today. ThinkDigital has been his employer and a major part of his life for the last few years. It offers services and expertise in areas such as computer networking and security, automation, smart metering, and fleet management and intelligence. Diogo has also published many open source projects. You can find them all, with an MIT license style, on his personal GitHub page under the username dresende.

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From reader reviews:

Sandra Maes:

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