

# The Node Book

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learning node js a hands on guide to building applications in javascript node js makes it far easier to create fast compact and reliable web network applications and web servers and is rapidly becoming indispensable to modern web developers learning node js brings together the knowledge and javascript code you need to build master the node js platform and build server side applications with extraordinary speed and scalability you ll start by installing and running node js understanding the extensions it uses and quickly writing your first app next building on the basics you ll write more capable application servers and extend them with today s most powerful node js tools and modules finally you ll discover today s best practices for testing running node js code on production servers and writing command line utilities throughout the book author marc wandschneider teaches by walking you line by line through carefully crafted examples demonstrating proven techniques for creating highly efficient applications and servers build node js solutions that leverage your current javascript skills master node js nonblocking io and async programming handle more requests and

increase your application's flexibility use and write your own modules perform common json web server tasks use browsers to generate pages on the fly via ajax calls and template libraries simplify development with the express framework create database back ends using popular nosql and relational databases deploy and run node js apps on unix os x or windows servers take advantage of multiprocessor hardware support virtual hosts and ssl https security test node js programs that mix synchronous async and restful server api functionality

ryan dahl creator of node js this is an amazing introduction to node js the aim of the node beginner book is to get you started with developing applications for node js teaching you everything you need to know about advanced javascript along the way

solve practical real world problems using javascript and node js about this book learn the concepts of node js to gain a high level understanding of the node js execution model build an interactive web application with mongodb and redis and create your own javascript modules that work both on the client side and server side familiarize yourself with the new features of node js and javascript with this exclusive step by step guide who this book is for this book is for developers who want to learn javascript and node js previous experience with programming is desired but no javascript or node js knowledge is required the book focuses mostly on web development such as networking serving dynamic pages and real time client server communication what you will learn understand which problems node js best solves write idiomatic javascript and node js code build web applications and command line tools minimise complexity and efficiently solve difficult problems test and deploy node js applications work with persistent data implement real time client server applications integrate net and node js code in detail node js is an open source cross platform runtime environment that allows you to use javascript to develop server side web applications this short guide will help you develop applications using javascript and node js leverage your existing programming skills from net or java and make the most of these other platforms through understanding the node js programming model you will learn how to build web applications and apis in node discover packages in the node js ecosystem test and deploy your node js code and more finally you will discover how to integrate node js and net code style and approach this is a step by step and practical guide to node js for net developers it covers the fundamentals relating to typical applications the focus is on providing the practical skills required to develop applications with a summary of the key concepts covered

node js complete reference guide is your one stop solution to building highly scalable single language applications that share code between the server and client key features explore the latest javascript features and ecma script modules walk through different stages of developing robust applications using node js 10 create rich and scalable restful api solutions from scratch book description node js complete reference guide takes you through rudimentary knowledge of javascript and server side development to create maintain deploy and test your own node js applications you will begin by learning how to use the http server

and client objects store data with both sql and mongodb databases and unit test applications with mocha 5 x and functionally test them with puppeteer 1 1 x then you will learn to create scalable and rich restful applications on the node js platform and write a simple http request handler with self descriptive urls you will learn to set accurate http status codes study how to keep your applications backward compatible and explore some authentication techniques to secure your application then you will study how node js has emerged as a strong candidate for developing microservices with this learning path you will be able to use the best practices and create efficient microservices this learning path includes content from the following packt products restful api design with node js 10 third edition by valentin bojinov node js development fourth edition by david herron hands on microservices with node js by diogo resende what you will learn work with rest service development using the restify framework use data storage engines such as mysql sqlite3 and mongodb in apps apply user authentication methods with oauth2 perform real time communication with the front end using socket io implement docker microservices in development testing and deployment perform unit testing with mocha 5 x and functional testing with puppeteer 1 1 x use self descriptive urls and set accurate http status codes deploy a cloud native microservice to an online provider who this book is for node js complete reference guide is designed for web developers who have a rudimentary understanding of javascript and web application development are keen to enrich their development skills to create restful applications and want utilize their skills to build microservices

node js it s the latest in a long line of are you cool enough to use me programming languages apis and toolkits in that sense it lands squarely in the tradition of rails and ajax and hadoop and even to some degree iphone programming and html5 dig a little deeper and you ll hear that node js or as it s more briefly called by many simply node is a server side solution for javascript and in particular for receiving and responding to http requests if that doesn t completely boggle your mind by the time the conversation heats up with discussion of ports sockets and threads you ll tend to glaze over is this really javascript in fact why in the world would anyone want to run javascript outside of a browser let alone the server the good news is that you re hearing and thinking about the right things node really is concerned with network programming and server side request response processing the bad news is that like rails ajax and hadoop before it there s precious little clear information available there will be in time as there now is for these other cool frameworks that have matured but why wait for a book or tutorial when you might be able to use node today and dramatically improve the maintainability

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a comprehensive easy to follow guide to creating complete node apps and understanding how to build deploy and test your own apps key features entirely project based and practical

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frameworks such as fastify and express discover tips for testing optimizing and securing your web applications create and deploy node js microservices debug and diagnose issues in your node js applications who this book is for the book is for web developers who have knowledge of javascript and want to gain a broad understanding of node js concepts for server side development

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while there have been quite a few attempts to get javascript working as a server side language node js frequently just called node has been the first environment that s gained any traction it s now used by companies such as netflix uber and paypal to power their web apps node allows for blazingly fast performance thanks to its event loop model common tasks like network connection and database i o can be executed very quickly indeed in this book we ll take a look at a selection of the related tools and skills that will make you a much more productive node developer it contains installing multiple versions of node js using nvm a beginner s guide to npm create new express js apps in minutes with express generator an introduction to adonisjs a laravel like node js framework top 5 developer friendly node js api frameworks using mysql with node js and the mysql javascript client introduction to mongodb

get to grips with a new technology understand what it is and what it can do for you and then get to work with the most important features and tasks a practical exploration of the lifecycle of creating node modules as well as learning all of the top features that npm has to offer intended for readers who want to create their first node js modules the programming paradigm of javascript is not covered so a foundation in these concepts would be beneficial

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node js is the platform of choice for creating modern web services this fast paced book gets you up to speed on server side programming with node js 8 as you develop real programs that are small fast low profile and useful take javascript beyond the browser explore dynamic language features and embrace evented programming harness the power of the event loop and non blocking i o to create highly parallel microservices and applications this expanded and updated second edition showcases the latest ecma script features current best practices and modern development techniques javascript is the backbone of the modern web powering nearly every web app s user interface node js is javascript for the server this greatly expanded second edition introduces new language features while dramatically increasing coverage of core topics each hands on chapter offers progressively more challenging topics and techniques broadening your skill set and enabling you to think in node js write asynchronous non blocking code using node js s style and patterns cluster and load balance services with node js core features and third party tools harness the power of databases such

as elasticsearch and redis work with many protocols create restful web services tcp socket clients and servers and more test your code s functionality with mocha and manage its life cycle with npm discover how node js pairs a server side event loop with a javascript runtime to produce screaming fast non blocking concurrency through a series of practical programming domains use the latest available ecma script features and harness key node js classes and popular modules create rich command line tools and a web based ui using modern web development techniques join the smart and diverse community that s rapidly advancing the state of the art in javascript development what you need node js 8 x operating system with bash like shell omq pronounced zero m q library version 3 2 or higher elasticsearch version 5 0 or higher jq version 1 5 or higher redis version 3 2 or higher

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