

# Express Router

Amos Q. Haviv,Adrian Mejia,Robert Onodi

Cisco Express Forwarding Nakia Stringfield, Russ White, Stacia McKee, 2007-04-24 Cisco Express Forwarding Understanding and troubleshooting CEF in Cisco routers and switches Nakia Stringfield, CCIE No. 13451 Russ White, CCIE No. 2635 Stacia McKee How does a router switch a packet? What is the difference between routing a packet, switching a frame, and packet switching? What is the Cisco Express Forwarding (CEF) feature referred to in Cisco documentation and commonly found in Cisco IOS commands? CEF is a general term that describes the mechanism by which Cisco routers and Catalyst switches packet-switch (route) frames. CEF is found in almost all Cisco routers and Catalyst switches, and understanding how CEF operates can improve the performance, scalability, and efficiency of your network. Cisco Express Forwarding demystifies the internal workings of Cisco routers and switches, making it easier for you to optimize performance and troubleshoot issues that arise in Cisco network environments. This book addresses common misconceptions about CEF and packet switching across various platforms, helping you to improve your troubleshooting skills for CEF- and non-CEF-related problems. The first part of the book provides an overview of packet-switching architectures and CEF operation and advanced features. It also covers the enhanced CEF structure and general troubleshooting. The second part of the book provides case studies that focus on the common topics that have been problematic for customers and those supporting Cisco networks. Full of practical examples and configurations, this book draws on years of experience to help you keep your Cisco networks running efficiently. Nakia Stringfield, CCIE No. 13451, is a network consulting engineer for Advanced Services at Cisco, supporting top financial customers with network design and applying best practices. She was formerly a senior customer support engineer for the Routing Protocols Technical Assistance Center (TAC) team troubleshooting issues related to CEF and routing protocols. Nakia has been with Cisco for more than six years, previously serving as a technical leader for the Architecture TAC team. Russ White, CCIE No. 2635, is a Principle Engineer in the Routing Protocol Design and Architecture team at Cisco. He is a member of the IETF Routing Area Directorate, co-chair of the Routing Protocols Security Working Group in the IETF, a regular speaker at Cisco Networkers, a member of the CCIE Content Advisory Group, and the coauthor of six other books about routing and routing protocols, including *Optimal Routing Design* from Cisco Press. Russ primarily works in the development of new features and design architectures for routing protocols. Stacia McKee is a customer support engineer and technical leader of the Routing Protocols Technical Assistance Center (TAC) team. This team focuses on providing post-sales support of IP routing protocols, MPLS, QoS, IP multicast, and many other Layer 3 technologies. Stacia has been with Cisco for more than six years, previously serving as a technical leader of the Architecture TAC team and a member of the WAN/Access TAC team. Learn the key features of packet-switching architectures Understand the basics of the CEF architecture and operation Examine the enhanced CEF structure, which improves scalability Learn how to troubleshoot in software-switching environments Understand the effect of CEF on a Cisco Catalyst 6500 Supervisor 720 Configure and troubleshoot load sharing with CEF Evaluate the effect of CEF in an MPLS VPN environment Review CEF design considerations that impact scalability Part I Understanding, Configuring, and Troubleshooting CEF Chapter 1 Introduction to Packet-Switching Architectures Chapter 2 Understanding Cisco Express Forwarding Chapter 3 CEF Enhanced Scalability Chapter 4 Basic IP Connectivity and CEF Troubleshooting Part II CEF Case Studies Chapter 5 Understanding Packet Switching on the Cisco Catalyst 6500 Supervisor 720 Chapter 6 Load Sharing with CEF Chapter 7 Understanding CEF in an MPLS VPN Environment Part III Appendix Appendix A Scalability This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Category: Networking Covers: Routing and Switching 1587052369

**SIP Express Router RADIUS-MySQL HOWTO** Gerard Sanz, 2005

**JavaScript Cookbook** Adam D. Scott, Matthew MacDonald, Shelley Powers, 2021-07-16 Why reinvent the wheel every time you run into a problem with JavaScript? This cookbook is chock-full of code recipes for common programming tasks, along with techniques for building apps that work in any browser. You'll get adaptable code samples that you can add to almost any project--and you'll learn more about JavaScript in the process. The recipes in this book take advantage of the latest features in ECMAScript 2020 and beyond and use modern JavaScript coding standards. You'll learn how to: Set up a productive development environment with a code editor, linter, and test server Work with JavaScript data types, such as strings, arrays, and BigInts Improve your understanding of JavaScript functions, including arrow functions, closures, and generators Apply object-oriented programming concepts like classes and inheritance Work with rich media in JavaScript, including audio, video, and SVGs Manipulate HTML markup and CSS styles Use JavaScript anywhere with Node.js Access and manipulate remote data with REST, GraphQL, and Fetch Get started with the popular Express application-building framework Perform asynchronous operations with Promises, async/await, and web workers

*Mastering JavaScript Single Page Application Development* Philip Klauzinski, John Moore, 2016-10-28 An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice. Explore the various facets of SPA development to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from front-end development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

**Full-Stack React, TypeScript, and Node** David Choi, 2020-12-18 Discover the current landscape of full-stack development and how to leverage modern web technologies for building production-ready React.js applications to deploy on AWS Key Features Understand the architecture of React and single-page applications Build a modern Web API for your SPA using Node.js, Express, and GraphQL Gain a clear and practical understanding of how to build a complete full-stack application Book Description React sets the standard for building high-performance client-side web apps. Node.js is a scalable application server that is used in thousands of websites, while GraphQL is becoming the standard way for large websites to provide data and services to their users. Together, these technologies, when reinforced with the capabilities of TypeScript, provide a cutting-edge stack for complete web application development. This book takes a hands-on approach to implementing modern web technologies and the associated methodologies for building full-stack apps. You'll begin by gaining a strong understanding of TypeScript and how to use it to build high-quality web apps. The chapters that follow delve into client-side development with React using the new Hooks API and Redux. Next, you'll get to grips with server-side development with Express, including authentication with Redis-based sessions and accessing databases with TypeORM. The book will then show you how to use

Apollo GraphQL to build web services for your full-stack app. Later, you'll learn how to build GraphQL schemas and integrate them with React using Hooks. Finally, you'll focus on how to deploy your application onto an NGINX server using the AWS cloud. By the end of this book, you'll be able to build and deploy complete high-performance web applications using React, Node, and GraphQL. What you will learnDiscover TypeScript's most important features and how they can be used to improve code quality and maintainabilityUnderstand what React Hooks are and how to build React apps using themImplement state management for your React app using ReduxSet up an Express project with TypeScript and GraphQL from scratchBuild a fully functional online forum app using React and GraphQLAdd authentication to your web app using RedisSave and retrieve data from a Postgres database using TypeORMConfigure NGINX on the AWS cloud to deploy and serve your appsWho this book is for The book is for web developers who want to go beyond front-end web development and enter the world of full-stack web development by learning about modern web technologies and how they come together. A good understanding of JavaScript programming is required before getting started with this web development book.

**Write Modern Web Apps with the MEAN Stack** Jeff Dickey,2014-09-25 The MEAN stack (Mongo, Express, AngularJS, and Node.js) offers a new path to writing web applications by treating the front-end as if it were a third-party (such as a mobile client). This video by full-stack developer Jeff Dickey takes a holistic approach to learning the MEAN JavaScript platform and shows how to build, test, and deploy apps.--Resource description page.

Angular for Enterprise Applications Doguhan Uluca,2024-01-31 Harness the full power of Angular 17 with up-to-date tools and enterprise-level best practices Purchase of the print or Kindle book includes a free PDF eBook Key Features Dive straight into the most relevant topics that will help you build large, complex, and high-performance web applications Find updated examples, projects, and an overview of the latest tools and updates - including Jest, Cypress, NgRx workspace, Apollo GraphQL, and Angular Dev Tools Get to grips with reactive code and learn how to resolve potential issues before they crop up Book DescriptionIf you're looking to upskill and build sophisticated, minimalist web applications suited for enterprise use, Angular for Enterprise Applications is your guide to the next level of engineering mastery. In its third edition, this Angular book distils hard-earned lessons into a lucid roadmap for success. Adopting a pragmatic approach founded on a robust technical base, you'll utilize both JavaScript and TypeScript fundamentals. You'll also embrace agile engineering coding principles and learn to architect optimally sized enterprise solutions employing the freshest concepts in Angular. You'll gradually build upon this foundation through insightful recipes, sample apps, and crystal-clear explanations. You'll master authentication and authorization and achieve optimal performance through reactive programming and lazy loading, build complex yet flexible UIs with Router-first principles, and then integrate with backend systems using REST and GraphQL APIs. You'll cover modern tools like RxAngular, Qwik, and Signals. You'll construct master/detail views using data tables and NgRx for state management. You'll explore DevOps using Docker and build CI/CD pipelines necessary for high-performance teams. By the end of this book, you'll be proficient in leveraging Angular in enterprise and design robust systems that scale effortlessly.What you will learn Best practices for architecting and leading enterprise projects Minimalist, value-first approach to delivering web apps How standalone components, services, providers, modules, lazy loading, and directives work in Angular Manage your app's data reactivity using Signals or RxJS State management for your Angular apps with NgRx Angular ecosystem to build and deliver enterprise applications Automated testing and CI/CD to deliver high quality apps Authentication and authorization Building role-based access control with REST and GraphQL Who this book is for This book is for mid-to-senior developers looking to gain mastery by learning how to write, test, and deploy Angular in an enterprise environment. Working experience with JavaScript is a prerequisite, and a familiarity with TypeScript and RESTful APIs will help you understand the topics covered in this book more effectively

*MEAN Cookbook* Nicholas McClay,2017-09-28 Over 50 recipes to create full-stack high-performance web applications using pure JavaScript and the MEAN stack. About This Book Architect a fully functional stand-alone web application, including the web server, database, and front-end web application Improve the performance and maintainability of your MEAN stack application with tips for configuration and optimization Highlights MEAN Stack best practices when working with your application Who This Book Is For If you are a JavaScript developer who wants to create high-performing, modern web applications with the MEAN stack, this is the book for you. Web developers familiar with some parts of the MEAN stack will find this a comprehensive guide to fleshing out the other technologies and skills they need to build all JavaScript web applications. Developers interested in transitioning from other web application stacks to an all-JavaScript environment will find a wealth of information about how to work in a MEAN stack environment. To get the most from this book, you should have a general understanding of web servers and web applications. You are expected to have a basic understanding of running JavaScript, both in a web browser and outside it, using Node.js and the NPM package manager. What You Will Learn Bootstrap a new MEAN stack web application using Node.js and Express Build a single-page application (SPA) with Angular and Angular-CLI Improve browser performance by optimizing your web application resources using Webpack Model complex JSON object relationships in MongoDB using Mongoose Debug all the layers of a MEAN stack application, including working with source maps Build Restful APIs using Express.js and JSON Web Token (JWT) for user authentication Use automated testing to improve the reliability and quality of your MEAN stack application In Detail The MEAN Stack is a framework for web application development using JavaScript-based technologies; MongoDB, Express, Angular, and Node.js. If you want to expand your understanding of using JavaScript to produce a fully functional standalone web application, including the web server, user interface, and database, then this book can help guide you through that transition. This book begins by configuring the frontend of the MEAN stack web application using the Angular JavaScript framework. We then implement common user interface enhancements before moving on to configuring the server layer of our MEAN stack web application using Express for our backend APIs. You will learn to configure the database layer of your MEAN stack web application using MongoDB and the Mongoose framework, including modeling relationships between documents. You will explore advanced topics such as optimizing your web application using WebPack as well as the use of automated testing with the Mocha and Chai frameworks. By the end of the book, you should have acquired a level of proficiency that allows you to confidently build a full production-ready and scalable MEAN stack application. Style and Approach This book is a guide of MEAN Stack specific solutions to common web application problems and includes in-depth guides for each layer of the application stack. Readers looking to upgrade their MEAN Stack web application will find recipes within to help them transition.

Get Programming with Node.js Jonathan Wexler,2019-02-11 Summary Get Programming with Node.js teaches you to build web servers using JavaScript and Node. In this engaging tutorial, you'll work through eight complete projects, from writing the code for your first web server to adding live chat to a web app. Your hands will stay on the keyboard as you explore the most important aspects of the Node development process, including security, database management, authenticating user accounts, and deploying to production. You'll especially appreciate the easy-to-follow discussions, illuminating diagrams, and carefully explained code! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Node.js delivers the speed and reliability you need for ecommerce, social media, and gaming applications. It comes with thousands of prebuilt packages to help you get started immediately. If you want to use JavaScript on the server, Node.js is your choice. What's inside New features from ES2015 and later Writing asynchronous code Creating data models Debugging JavaScript modules About the Reader Written for front-end web developers with intermediate JavaScript skills. Table of Contents GETTING SET UP Lesson 0 - Setting up Node.js and the JavaScript engine Lesson 1 - Configuring your environment Lesson 2 - Running a Node.js application UNIT 1 - GETTING STARTED WITH NODE.JS Lesson 3 - Creating a Node.js module Lesson 4 - Building a simple web server in Node.js Lesson 5 - Handling incoming data Lesson 6 - Writing better routes and serving external files Lesson 7 - Capstone: Creating your first web application UNIT 2 - EASIER WEB DEVELOPMENT WITH EXPRESS.JS Lesson 8 - Setting up an app with Express.js Lesson 9 - Routing in Express.js Lesson 10 - Connecting views with templates Lesson 11 - Configurations and error handling Lesson 12 - Capstone: Enhancing the Confetti Cuisine site with Express.js UNIT 3 - CONNECTING TO A DATABASE Lesson 13 - Setting up a MongoDB database Lesson 14 - Building models with Mongoose Lesson 15 - Connecting controllers and models Using promises with Mongoose Lesson 16 - Capstone: Saving user subscriptions UNIT 4 - BUILDING A USER MODEL Lesson 17 - Improving your data models Lesson 18 - Building the user model Lesson 19 - Creating and reading your models Lesson 20 - Updating and deleting your models Lesson 21 - Capstone: Adding CRUD models to Confetti Cuisine Creating controllers UNIT 5 - AUTHENTICATING USER ACCOUNTS Lesson 22 - Adding sessions and flash messages Lesson 23 - Building a user login and hashing passwords Lesson 24 - Adding user authentication Lesson 25 - Capstone: Adding user authentication to Confetti Cuisine UNIT 6 - BUILDING AN API Lesson 26 - Adding an API to your application Lesson 27 - Accessing your API from your application Lesson 28 - Adding API security Lesson 29 -

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*Test-Driving JavaScript Applications* Venkat Subramaniam,2016-10-07 Debunk the myth that JavaScript is not easily testable. Whether you use Node.js, Express, MongoDB, jQuery, AngularJS, or directly manipulate the DOM, you can test-drive JavaScript. Learn the craft of writing meaningful, deterministic automated tests with Karma, Mocha, and Chai. Test asynchronous JavaScript, decouple and properly mock out dependencies, measure code coverage, and create lightweight modular designs of both server-side and client-side code. Your investment in writing tests will pay high dividends as you create code that's predictable and cost-effective to change. Design and code JavaScript applications with automated tests. Writing meaningful tests is a skill that takes learning, some unlearning, and a lot of practice, and with this book, you'll hone that skill. Fire up the editor and get hands-on through practical exercises for effective automated testing and designing maintainable, modular code. Start by learning when and why to do manual testing vs. automated verification. Focus tests on the important things, like the pre-conditions, the invariants, complex logic, and gnarly edge cases. Then begin to design asynchronous functions using automated tests. Carefully decouple and mock out intricate dependencies such as the DOM, geolocation API, file and database access, and Ajax calls to remote servers. Step by step, test code that uses Node.js, Express, MongoDB, jQuery, and AngularJS. Know when and how to use tools such as Chai, Istanbul, Karma, Mocha, Protractor, and Sinon. Create tests with minimum effort and run them fast without having to spin up web servers or manually edit HTML pages to run in browsers. Then explore end-to-end testing to ensure all parts are wired and working well together. Don't just imagine creating testable code, write it. What You Need: A computer with a text editor and your favorite browser. The book provides instructions to install the necessary automated testing-related tools.

**Web Development with MongoDB and Node** Bruno Joseph D'mello,Mithun Satheesh,Jason Krol,2017-09-29 Use the two popular web development stacks, Node.js and MongoDB, to build full-featured web applications About This Book Learn the new ECMAScript along with Node 8 and MongoDB to make your application more effective. Get the up-to-date information required to launch your first application prototype using the latest versions of Node.js and MongoDB. A practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as angular4 and hapi Who This Book Is For The book is designed for JavaScript developers of any skill level who want to get up-and-running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only prerequisite for this book. What You Will Learn Work with Node.js building blocks Write and configure a web server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Automate test cases using Gulp Reduce your web development time by integrating third-party tools for web interaction. Deploy a development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore single-page application frameworks to take your web applications to the next level In Detail Node.js builds fast, scalable network applications while MongoDB is the perfect fit as a high-performance, open source NoSQL database solution. The combination of these two technologies offers high performance and scalability and helps in building fast, scalable network applications. Together they provide the power for manage any form of data as well as speed of delivery. This book will help you to get these two technologies working together to build web applications quickly and easily, with effortless deployment to the cloud. You will also learn about angular 4, which consumes pure JSON APIs from a hapi server. The book begins by setting up your development environment, running you through the steps necessary to get the main application server up-and-running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools to interact with web apps. You will see how to use controllers and view models to generate reusable code that will reduce development time. Toward the end, the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB, Node.js, and some of the most powerful and popular frameworks. Style and approach A practical guide with clear instructions to designing and developing a complete web application from start to finish

**Professional Visual Studio 2017** Bruce Johnson,2017-10-18 Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry-favorite guide to getting the most out of Microsoft's primary programming technology. From touring the new UI to exploiting advanced functionality, this book is designed to help professional developers become more productive. A unique IDE-centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier. Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI, and this book covers them all with clear explanation, new figures, and expert insight. Whether you're new to VS or just upgrading, this all-inclusive guide is an essential resource to keep within arm's reach. Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015, and includes new features and tools that streamline the developer's job. This book provides the straightforward answers you need so you can get up to speed quickly and get back to work. Master the core functionality of Visual Studio 2017 Dig into the tools that make writing code easier Tailor the environment to your workflow, not the other way around Work your way through configuration, debugging, building, deployment, customizing, and more Microsoft is changing their release cadence—it's only been about two years since the last release—so developers need to quickly get a handle on new tools and features if they hope to remain productive. The 2017 release is designed specifically to help you get more done, in less time, with greater accuracy and attention to detail. If you're ready to get acquainted, Professional Visual Studio 2017 is your ideal guide.

*Node.js: The Collection* James Hibbard,Camilo Reyes,Michael Wanyoike,Mark Brown,Manjunath M,Jay Raj,Lukas White,James Kolce,Simon Holmes,Paul Orac,Patrick Catanzariti,Jani Hartikainen,M. David Green,Craig Buckler,Olayinka Omole,Ahmed Bouchefra,Paul Sauve,2018-12-04 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. From a beginner's point of view, one of Node's obvious advantages is that it uses JavaScript, a ubiquitous language that many developers are comfortable with. If you can write JavaScript for the client-side, writing server-side applications with Node should not be too much of a stretch for you. This collection contains three books that will help get you up and running with Node. It contains: Your First Week With Node.js, which will get started using Node, covering all of the basics. 9 Practical Node.js Projects, which offers a selection of hand-on practical projects to develop your skills. Node.js: Related Tools & Skills, which outlines essential tools and skills that all Node developers should know.

*Node Cookbook* Bethany Griggs,2020-11-25 Discover practical recipes to get to grips with Node.js concepts and programming models for delivering a scalable server-side for your applications Key FeaturesImplement practical solutions for scaling, securing, and testing your Node.js web apps effectivelyBuild and deploy scalable microservices architecture with the power of Node.js 14Discover techniques for debugging and testing Node.js applicationsBook Description A key technology for building web applications and tooling, Node.js brings JavaScript to the server enabling full-stack development in a common language. This fourth edition of the Node Cookbook is updated with the latest Node.js features and the evolution of the Node.js framework ecosystems. This practical guide will help you to get started with creating, debugging, and deploying your Node.js applications and cover solutions to common problems, along with tips to avoid pitfalls. You'll become familiar with the Node.js development model by learning how to handle files and build simple web applications and then explore established and emerging Node.js web frameworks such as Express.js and Fastify. As you advance, you'll discover techniques for detecting problems in your applications, handling security concerns, and deploying your applications to the cloud. This recipe-based guide will help you to easily navigate through various core topics of server-side web application development with Node.js. By the end of this Node book, you'll be well-versed with core Node.js concepts and have gained the knowledge to start building performant and scalable Node.js applications. What you will learnUnderstand the Node.js asynchronous programming modelCreate simple Node.js applications using modules

and web frameworksDevelop simple web applications using web frameworks such as Fastify and ExpressDiscover tips for testing, optimizing, and securing your web applicationsCreate and deploy Node.js microservicesDebug and diagnose issues in your Node.js applicationsWho 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.

**Beginning Amazon Web Services with Node.js** Adam Shackelford,2015-03-16 Beginning Amazon Web Services with Node.js teaches any novice Node.js developer to configure, deploy, and maintain scalable small to large scale Node.js applications in Amazon Web Services. Hosting a Node.js application in a production environment usually means turning to PaaS hosting, but this approach brings problems. Deploying Node.js directly to AWS solves the problems you encounter in these situations, enabling you to cut out the middle man. You will begin with a basic RESTful web service in Node.js, using the popular Express.js framework, pre-built and ready to run in your local environment. You will be introduced to the most powerful tools in AWS, and learn how to configure your project to take advantage of them. You will be guided through the steps of getting the various key components to work together on AWS. Through code samples using the AWS JavaScript SDK and tutorials in the AWS console, you will gain the knowledge to incorporate secure user authentication, server auto-scaling, a load balancer, CDN, customized caching behavior, and outage monitoring. Node.js is single-threaded, and designed to run high input / high output applications, making it ideal for the cloud environment. If your main task is handling a high volume of requests over HTTP / the web, it will scale very well in proportion to the computing power you allocate to it. Amazon Web Services offers a broad set of services that help organizations move faster, lower costs, and scale applications. Trusted by the largest enterprises and start-ups alike, AWS powers a wide variety of workloads across a broad spectrum. If leveraged properly, you can build a Node.js app on AWS which can automatically power itself up to handle a massive volume of traffic, and then scale back down to a lighter configuration when user demand has dropped. Amazon Web Services offers a broad set of services that help organizations move faster, lower costs, and scale applications. Get started with Node.js and AWS using this book today.

**Web Development with MongoDB and NodeJS** Mithun Satheesh,Bruno Joseph D'mello,Jason Krol,2015-10-30 Build an interactive and full-featured web application from scratch using Node.js and MongoDB About This Book Configure your development environment to use Node.js and MongoDB Use Node.js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only requirement for this book. What You Will Learn Configure your development environment to use Node.js and MongoDB Write and configure a web server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore Single-Page application frameworks to take your web applications to the next level In Detail Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications while MongoDB is the perfect fit as a scalable, high-performance, open source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here, you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB and Node.js along with its popular frameworks. Style and approach An easy guide to Node.js and MongoDB, which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application.

**Securing Cisco IP Telephony Networks** Akhil Behl,2012-08-31 The real-world guide to securing Cisco-based IP telephony applications, devices, and networks Cisco IP telephony leverages converged networks to dramatically reduce TCO and improve ROI. However, its critical importance to business communications and deep integration with enterprise IP networks make it susceptible to attacks that legacy telecom systems did not face. Now, there's a comprehensive guide to securing the IP telephony components that ride atop data network infrastructures--and thereby providing IP telephony services that are safer, more resilient, more stable, and more scalable. Securing Cisco IP Telephony Networks provides comprehensive, up-to-date details for securing Cisco IP telephony equipment, underlying infrastructure, and telephony applications. Drawing on ten years of experience, senior network consultant Akhil Behl offers a complete security framework for use in any Cisco IP telephony environment. You'll find best practices and detailed configuration examples for securing Cisco Unified Communications Manager (CUCM), Cisco Unity/Unity Connection, Cisco Unified Presence, Cisco Voice Gateways, Cisco IP Telephony Endpoints, and many other Cisco IP Telephony applications. The book showcases easy-to-follow Cisco IP Telephony applications and network security-centric examples in every chapter. This guide is invaluable to every technical professional and IT decision-maker concerned with securing Cisco IP telephony networks, including network engineers, administrators, architects, managers, security analysts, IT directors, and consultants. Recognize vulnerabilities caused by IP network integration, as well as VoIP's unique security requirements Discover how hackers target IP telephony networks and proactively protect against each facet of their attacks Implement a flexible, proven methodology for end-to-end Cisco IP Telephony security Use a layered (defense-in-depth) approach that builds on underlying network security design Secure CUCM, Cisco Unity/Unity Connection, CUPS, CUCM Express, and Cisco Unity Express platforms against internal and external threats Establish physical security, Layer 2 and Layer 3 security, and Cisco ASA-based perimeter security Complete coverage of Cisco IP Telephony encryption and authentication fundamentals Configure Cisco IOS Voice Gateways to help prevent toll fraud and deter attacks Secure Cisco Voice Gatekeepers and Cisco Unified Border Element (CUBE) against rogue endpoints and other attack vectors Secure Cisco IP telephony endpoints--Cisco Unified IP Phones (wired, wireless, and soft phone) from malicious insiders and external threats This IP communications book is part of the Cisco Press® Networking Technology Series. IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies, plan and design converged networks, and implement network solutions for increased productivity.

**Practical Microservices** Ethan Garofolo,2020-04-09 MVC and CRUD make software easier to write, but harder to change. Microservice-based architectures can help even the smallest of projects remain agile in the long term, but most tutorials meander in theory or completely miss the point of what it means to be microservice-based. Roll up your sleeves with real projects and learn the most important concepts of evented architectures. You'll have your own deployable, testable project and a direction for where to go next. Much ink has been spilled on the topic of microservices, but all of this writing fails to accurately identify what makes a system a monolith, define what microservices are, or give complete, practical examples, so you're probably left thinking they have nothing to offer you. You don't have to be at Google or Facebook scale to benefit from a microservice-based architecture. Microservices will keep even small and medium teams productive by keeping the pieces of your system focused and decoupled. Discover the basics of message-based architectures, render the same state in different shapes to fit the task at hand, and learn what it is that makes something a monolith (it has nothing to do with how many machines you deploy to). Conserve resources by performing background jobs with microservices. Deploy specialized microservices for registration, authentication, payment processing, e-mail, and more. Tune your services by defining appropriate service boundaries. Deploy your services effectively for continuous integration. Master debugging techniques that work across different services. You'll finish with a deployable system and skills you can apply to your current project. Add the responsiveness and flexibility of microservices to your project, no matter what the size or complexity. What You Need: While the principles of this book transcend programming language, the code examples are in Node.js because JavaScript, for better or worse, is widely read. You'll use PostgreSQL for data storage, so familiarity with it is a plus. The books does provide Docker images to make working with PostgreSQL a bit easier, but extensive Docker knowledge is not required.

**Web Application Development with MEAN** Amos Q. Haviv,Adrian Mejia,Robert Onodi,2016-10-28 Unlock the power of the MEAN stack by creating

attractive and real-world projects About This Book Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application Build optimum end-to-end web applications using the MEAN stack Who This Book Is For This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js. What You Will Learn Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB Employ AngularJS to build responsive UI components Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions Enhance your website's usability with social logins such as Facebook, Twitter, and Google Secure your app by creating SSL certificates and run payment platforms in a live environment Implement a chat application from scratch using Socket.IO Create distributed applications and use the power of server-side rendering in your applications Extend a project with a real-time bidding system using WebSockets In Detail The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also find out how to a build real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: MEAN Web Development by Amos Haviv Building an E-Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi Style and approach This course will begin with the introduction to MEAN, gradually progressing with building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge.

**Arduino Data Communications** Robert Thas John,2023-11-30 Build real-world, scalable, and fault-tolerant IoT systems using Arduino MKR boards that collect, transmit, and store data on a massive scale in a structured database Key Features Set up databases to store and retrieve information collected from various sensors Ingest your data into your database for storage with REST APIs and MQTT Communicate with your application layer using different communication technologies from Arduino MKR and Portenta H7 Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn our modern, internet-connected world, where billions of devices constantly collect and send data to systems to be stored and processed, it’s surprising how the intricacies of data transmission and storage are often overlooked in the IoT domain. With Arduino Data Communications, you'll bridge the knowledge gap and become an expert in collecting data from IoT sensors, transmitting data, and configuring your own databases. This book is an exploration of IoT’s inner workings, guiding you through the process of setting up an end-to-end system that you can employ to prototype your own IoT solutions, using easy-to-follow examples. It begins with a general overview of the Arduino ecosystem, acquainting you with various sensors and shields and unveiling the art of data collection. You’ll then explore data formats and methods to store data, both locally and on database servers. As you progress through the chapters, you’ll learn how to set up REST and MQTT infrastructure to communicate with databases and get hands-on with LoRaWAN, Ethernet, cellular, HC-12, and RS-485. The final chapters are your training ground for real-world projects, imparting the essential knowledge you need to tackle complex challenges with confidence. By the end of this Arduino book, you'll have seamlessly configured an end-to-end system, all while immersing yourself in practical scenarios that bring the world of IoT to life.What you will learn Explore data storage formats for both local and remote storage solutions Build projects that leverage the variety of communication standards Set up a database to host data transmitted from various projects Use MQTT and RESTful APIs to send data from devices to remote systems Prepare for multiple devices using high availability measures Use LoRa by implementing a gateway and a client Transmit temperature and humidity data over RS-485 and HC-12 Who this book is forThis book is for embedded systems engineers and electronics engineers who want to build IoT devices and gain insights into storing data collected from these devices, as well as establish communication between devices. The skills you learn in this book will come in handy even if your final product isn't built on Arduino. While prior experience with computers is assumed, expertise with embedded systems such as Arduino is not a prerequisite. Familiarity with Arduino programming will be beneficial, but not necessary.

Enjoying the Melody of Term: An Psychological Symphony within **Express Router**

In a world consumed by monitors and the ceaseless chatter of quick communication, the melodic beauty and mental symphony created by the published term often diminish into the background, eclipsed by the constant noise and disruptions that permeate our lives. But, set within the pages of **Express Router** a stunning fictional treasure overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that captivating masterpiece conducts viewers on a psychological journey, well unraveling the hidden tunes and profound impact resonating within each carefully constructed phrase. Within the depths of the touching assessment, we shall examine the book is central harmonies, analyze their enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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