

Web Architecture Pocket Guide

A practical handbook for computer network administrators focusing on routers, which connect the various pieces of a network. The text discusses everyday issues such as selecting routing protocols and configuring them to handle most common situations.

Designing application and middleware software to run in concurrent and networked environments is a significant challenge to software developers. The patterns catalogued in this second volume of Pattern-Oriented Software Architectures (POSA) form the basis of a pattern language that addresses issues associated with concurrency and networking. The book presents 17 interrelated patterns ranging from idioms through architectural designs. They cover core elements of building concurrent and network systems: service access and configuration, event handling, synchronization, and concurrency. All patterns present extensive examples and known uses in multiple programming languages, including C++, C, and Java. The book can be used to tackle specific software development problems or read from cover to cover to provide a fundamental understanding of the best practices for constructing concurrent and networked applications and middleware. About the Authors This book has been written by the award winning team responsible for the first POSA volume "A System of Patterns", joined in this volume by Douglas C. Schmidt from University of California, Irvine (UCI), USA. Visit our [Web Page](#)

REST continues to gain momentum as the best method for building Web services, and this down-to-earth book delivers techniques and examples that show how to design and implement integration solutions using the REST architectural style.

If you're involved in planning IT infrastructure as a network or system architect, system administrator, or developer, this book will help you adapt your skills to work with these highly scalable, highly redundant infrastructure services. While analysts hotly debate the advantages and risks of cloud computing, IT staff and programmers are left to determine whether and how to put their applications into these virtualized services. Cloud Application Architectures provides answers -- and critical guidance -- on issues of cost, availability, performance, scaling, privacy, and security. With Cloud Application Architectures, you will: Understand the differences between traditional deployment and cloud computing Determine whether moving existing applications to the cloud makes technical and business sense Analyze and compare the long-term costs of cloud services, traditional hosting, and owning dedicated servers Learn how to build a transactional web application for the cloud or migrate one to it Understand how the cloud helps you better prepare for disaster recovery Change your perspective on application scaling To provide realistic examples of the book's principles in action, the author delves into some of the choices and operations available on Amazon Web Services, and includes high-level summaries of several of the other services available on the market today. Cloud Application Architectures provides best practices that apply to every available cloud service. Learn how to make the transition to the cloud and prepare your web applications to succeed.

This book is a complete programmer's guide to the X library, which is the lowest level of programming interface to X. It includes chapters on: Summary SPA Design and Architecture teaches you the design and development skills you need to create SPAs. Includes an overview of MV* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The next step in the development of web-based software, single-page web applications deliver the sleekness and fluidity of a native desktop application in a browser. If you're ready to make the leap from

traditional web applications to SPAs, but don't know where to begin, this book will get you going. About the Book SPA Design and Architecture teaches you the design and development skills you need to create SPAs. You'll start with an introduction to the SPA model and see how it builds on the standard approach using linked pages. The author guides you through the practical issues of building an SPA, including an overview of MV* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. What's Inside Working with modular JavaScript Understanding MV* frameworks Layout management Client-side task automation Testing SPAs About the Reader This book assumes you are a web developer and know JavaScript basics. About the Author Emmit Scott is a senior software engineer and architect with experience building large-scale, web-based applications. Table of Contents PART 1 THE BASICS What is a single-page application? The role of MV* frameworks Modular JavaScript PART 2 CORE CONCEPTS Navigating the single page View composition and layout Inter-module interaction Communicating with the server Unit testing Client-side task automation APPENDIXES Employee directory example walk-through Review of the XMLHttpRequest API Chapter 7 server-side setup and summary Installing Node.js and Gulp.js Explains how to use the open source scripting language to process and validate forms, track sessions, generate dynamic images, create PDF files, parse XML files, create secure scripts, and write C language extensions.

The challenges of designing, building, and maintaining large-scale, distributed enterprise systems are truly daunting. Written for all IT professionals, *The Complete Book of Middleware* will aid in resolving new business objectives, new technologies, and vendor disputes. This book focuses on the essential principles and priorities of system design and emphasizes the new requirements brought forward by the rise of e-commerce and distributed integrated systems. This reference highlights the changes to middleware technologies and standards. It offers a concise overview of middleware technology alternatives and distributed systems. Many increasingly complex examples are incorporated throughout and the book concludes with guidelines on the practice of IT architecture. Performance considerations such as caching and monitoring are reviewed and the appendix includes middleware resources and new modeling standards. The scope includes traditional middleware and also next-generation techniques that serve to glue disparate systems in the ever-expanding world of distributed network systems. Provided with concepts, principles, and alternatives discussed in *The Complete Book of Middleware*, systems architects, systems analysts, systems designers, systems developers, and programmers, can proceed with greater confidence in designing complex enterprise systems.

Provides information and examples on using CSS to format Web pages, covering such topics as Web typography, links, navigation, page layouts, and Web site design.

& Includes a detailed case study - with complete source code - of building Web Services with Java AND .Net. & & Covers key emerging standards in transactioning, conversations, workflow, security and authentication, mobile and wireless, QoS, portlets, and management. & & Presents best practices based on authors' experiences building real world Web Services-based applications.

Do you need to learn about cloud computing architecture with Microsoft's Azure quickly? Read this book! It gives you just enough info on the big picture and is filled with key terminology so that you can join the discussion on cloud architecture.

New concepts and technologies are being introduced continuously for application development in the World-Wide Web. Selecting the right implementation strategies and tools when building a Web application has become a tedious task, requiring in-depth knowledge and significant experience from both software developers and software managers. The mission of this book is to guide the reader through the opaque jungle of Web technologies. Based on their long industrial and academic experience, Stefan Jablonski and his coauthors provide a framework architecture for Web applications which helps choose the best strategy for a given project. The authors classify common technologies and standards like .NET, CORBA, J2EE, DCOM, WSDL and many more with respect to platform, architectural layer, and application package, and guide the reader through a three-phase development process consisting of preparation, design, and technology selection steps. The whole approach is exemplified using a real-world case: the architectural design of an order-entry management system.

“Many books address how to correct failing product architectures or problematic processes, both of which are symptoms of an unspoken problem. This book not only covers those symptoms, but addresses their underlying cause—the way in which we manage, lead, organize, and staff our teams.” —Jeremy King, chief technology officer and senior vice president, global eCommerce at Walmart.com

The Comprehensive, Proven Approach to IT Scalability—Updated with New Strategies, Technologies, and Case Studies

In The Art of Scalability, Second Edition, leading scalability consultants Martin L. Abbott and Michael T. Fisher cover everything you need to know to smoothly scale products and services for any requirement. This extensively revised edition reflects new technologies, strategies, and lessons, as well as new case studies from the authors' pioneering consulting practice, AKF Partners. Writing for technical and nontechnical decision-makers, Abbott and Fisher cover everything that impacts scalability, including architecture, process, people, organization, and technology. Their insights and recommendations reflect more than thirty years of experience at companies ranging from eBay to Visa, and Salesforce.com to Apple. You'll find updated strategies for structuring organizations to maximize agility and scalability, as well as new insights into the cloud (IaaS/PaaS) transition, NoSQL, DevOps, business metrics, and more. Using this guide's tools and advice, you can systematically clear away obstacles to scalability—and achieve unprecedented IT and business performance. Coverage includes

- Why scalability problems start with organizations and people, not technology, and what to do about it
- Actionable lessons from real successes and failures
- Staffing, structuring, and leading the agile, scalable organization
- Scaling processes for hyper-growth environments
- Architecting scalability: proprietary models for clarifying needs and making choices—including 15 key success principles
- Emerging technologies and challenges: data cost, datacenter planning, cloud evolution, and customer-aligned monitoring
- Measuring availability, capacity, load, and performance

Explains how to use Java's portable platforms to program and use threads effectively and efficiently while avoiding common mistakes

Celebrate Thanksgiving with Annie and Snowball in this Level 2 Ready-to-Read story from the Theodor Seuss Geisel Award-winning creators of Henry and Mudge! Annie loves fall and she especially loves Thanksgiving. There is a big table at Annie's house, and she wants lots of people around it for a yummy dinner. But Annie lives with just her dad and her bunny, Snowball. She doesn't have a big family of her own. Who can she invite to share Thanksgiving?

This is written for system administrators who may not have the time to learn about Slash by reading the source code. It collects all the current Slash knowledge from the code, Website and mailing lists and organizes it into a coherent package.

This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings. A guide to Web design basics covers HTML, lists, links, tables, and frames, authoring programs, Web graphics applications, navigation systems, and information and interface design.

Our pocket reference books provide a wealth of practical information at your fingertips, whenever you need it. Rich in background detail, at-a-glance tables and diagrams, equations, and more, the Passive Solar Architecture Pocket Reference is a handy resource for architects, engineers and students. Coverage includes: definitions load determinants and Responses (including world wide biomes and climates, building metabolism and response, thermal sources and sinks, passive building responses to sources and sinks, tuning the building to the environment, optimizing insulation & thermal mass for comfort) contextual aspects (including microclimate and siting, temperatures, humidity, wind, radiation and comfort parameters passive components (including building envelope, passive solar terminology, orientation, apertures and glazing, thermal storage, thermal control and materials design tools (including sun path diagrams, sun peg diagrams, air flow relationships, thermal modelling and life cycle design specific functions (including passive heating, passive cooling and ventilation, natural lighting, passive water heating, resource collection and integrated design).

This volume is a handbook for enterprise system developers, guiding them through the intricacies and lessons learned in enterprise application development. It provides proven solutions to the everyday problems facing information systems developers.

The Digital Practitioner Pocket Guide is designed to be a handy reference guide to selected parts of the Digital Practitioner Body of Knowledge™ Standard. It is designed to help:

- Those who require a first introduction and basic understanding of the Digital Practitioner Body of Knowledge Standard
- Individuals who wish to create and manage product offerings with an increasing digital component, or lead their organization through Digital Transformation
- IT professionals working within any size organization, from a startup through to a large

enterprise, that has adopted digital approaches It covers the following topics:

- A brief introduction to the Digital Practitioner Body of Knowledge Standard
- An introduction to key terminology, key concepts, and the structure of the Body of Knowledge
- Basic concepts employed by the Digital Practitioner
- The capabilities of digital infrastructure and initial concerns for its effective, efficient, and secure operation
- The objectives and activities of application development
- Why product management is formalized as a company or team grows, and the differences between product and project management
- The key concerns and practices of work management as a team increases in size
- The basic concepts and practices of operations management in a digital/IT context
- How to coordinate as the organization grows into multiple teams and multiple products
- IT investment and portfolio management
- Organizational structure, human resources, and cultural factors
- Governance, risk, security, and compliance
- Information and data management on a large scale
- Practices and methods for managing complexity using Enterprise Architecture

When you need quick answers for developing or debugging Java programs, this pocket guide provides a handy reference to standard features of the Java programming language and its platform. You'll find helpful programming examples, tables, figures, and lists, as well as Java 8 features such as Lambda Expressions and the Date and Time API. It's an ideal companion, whether you're in the office, in the lab, or on the road. This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam. Quickly find Java language details, such as naming conventions, types, statements and blocks, and object-oriented programming Get details on the Java SE platform, including development basics, memory management, concurrency, and generics Browse through information on basic input/output, NIO 2.0, the Java collections framework, and the Java Scripting API Get supplemental references to fluent APIs, third-party tools, and basics of the Unified Modeling Language (UML)

This book has two objectives--to provide a comprehensive reference on using XML with Python; and to illustrate the practical applications of these technologies in an enterprise environment with examples.

Software -- Operating Systems.

When you need quick answers for developing or debugging Java programs, this pocket guide provides a handy reference to the standard features of the Java programming language and its platform. You'll find helpful programming examples, tables, figures, and lists, as well as supplemental information about topics including the Java Scripting API, third-party tools, and the basics of the Unified Modeling Language (UML). Updated for new features through Java SE 7, this little book is an ideal companion, whether you're in the office, in the lab, or on the road. Quickly find Java language details, such as naming conventions, fundamental types, and object-oriented programming elements Get details on the Java SE 7 platform, including development basics, memory management, concurrency, and generics Browse through basic information on NIO 2.0, the G1 Garbage Collector, and Project Coin (JSR-334) features Get supplemental references to development, CM, and test tools; libraries; IDEs; and Java-related scripting languages Find information to help you prepare for the Oracle Certified Associate Java SE 7 Programmer I exam

This Pocket Guide provides a concise introduction to the IT4IT Reference Architecture, Version 2.1, an Open Group Standard. The IT4IT standard provides a vendor-neutral, technology-agnostic, and industry-agnostic reference

architecture for managing the business of IT, enabling insight for continuous improvement. This Pocket Guide is based on the IT4IT Reference Architecture Version 2.1. What's more, it's authoritative with material derived from the official IT4IT documentation and contributions from members of the IT4IT Forum. The audience for this Pocket Guide is:

- Individuals who require a basic understanding of the IT Value Chain and IT4IT Reference Architecture
- IT Professionals who are responsible for delivering services in a way that is flexible, traceable, and cost-effective
- IT Professionals / Practitioners who are focused on instrumenting the IT management landscape
- IT leaders who are concerned about their operating model
- Enterprise Architects who are responsible for IT business transformation

Topics covered include:

- An introduction to the IT4IT Reference Architecture, the structure of the IT4IT standard, and the positioning of the IT4IT standard in the standards landscape
- The IT Value Chain and IT4IT Reference Architecture concepts, including Value Streams
- The Strategy to Portfolio (S2P) Value Stream
- The Requirement to Deploy (R2D) Value Stream
- The Request to Fulfill (R2F) Value Stream
- The Detect to Correct (D2C) Value Stream
- A summary of the differences between the IT4IT Reference Architecture and ITIL

Introducing the latest PL/SQL features of Oracle8i, this detailed manual discusses autonomous transactions, invoker rights, native dynamic SQL, system-level database triggers, access control, and other valuable topics and provides one hundred files of reusable source code and examples on diskette. Original. (Intermediate)

This is your most concise, practical reference to deploying, configuring, and running SharePoint 2013. Perfect for admins at all levels, it covers both technical topics and business solutions. SharePoint MVP Ben Curry focuses on the crucial step-by-step information for performing day-to-day tasks quickly, reliably, and well. No obscure settings, abstract theory, or hype...just help you can really trust—and really use!

Install SharePoint Server 2013
Configure farms and databases
Create and extend web applications
Set up and scale service applications
Deploy and manage sites/collections
Implement BI solutions
Integrate Excel Services and PowerPivot
Configure enterprise content types and metadata
Deploy Enterprise Search
Manage documents and web content
Brand your site
Deliver social tools, including microblogging
Back up and restore

This introduction to networking on Linux now covers firewalls, including the use of ipchains and Netfilter, masquerading, and accounting. Other new topics in this second edition include Novell (NCP/IPX) support and INN (news administration). This Pocket Guide provides a concise introduction to the IT4IT Reference Architecture, Version 2.0, an Open Group Standard. The IT4IT standard provides a vendor-neutral, technology-agnostic, and industry-agnostic reference architecture for managing the business of IT, enabling insight for continuous improvement. This Pocket Guide is based on the IT4IT Reference Architecture Version 2.0. What's more, it's authoritative with material derived from the official IT4IT

documentation and contributions from members of the IT4IT Forum. The audience for this Pocket Guide is: Individuals who require a basic understanding of the IT Value Chain and IT4IT Reference Architecture IT Professionals who are responsible for delivering services in a way that is flexible, traceable, and cost-effective IT Professionals / Practitioners who are focused on instrumenting the IT management landscape IT leaders who are concerned about their operating model Enterprise Architects who are responsible for IT business transformation Topics covered include: An introduction to the IT4IT Reference Architecture, the structure of the IT4IT standard, and the positioning of the IT4IT standard in the standards landscape The IT Value Chain and IT4IT Reference Architecture concepts, including Value Streams The Strategy to Portfolio (S2P) Value Stream The Requirement to Deploy (R2D) Value Stream The Request to Fulfill (R2F) Value Stream The Detect to Correct (D2C) Value Stream A summary of the differences between the IT4IT Reference Architecture and ITIL

Explains how to customize and troubleshoot the most recent version of the Mac operating system, covering the Mac interface, system maintenance, desktop publishing, Sherlock, networking, and creating themes.

Provides a definitive guide to terminology, techniques, and system information for individuals working in both Macintosh and Windows environments, explaining how to translate materials effectively from the one platform to the other. Original. (All Users)

In-depth examination of concepts and principles of Web application development Completely revised and updated, this popular book returns with coverage on a range of new technologies. Authored by a highly respected duo, this edition provides an in-depth examination of the core concepts and general principles of Web application development. Packed with examples featuring specific technologies, this book is divided into three sections: HTTP protocol as a foundation for Web applications, markup languages (HTML, XML, and CSS), and survey of emerging technologies. After a detailed introduction to the history of Web applications, coverage segues to core Internet protocols, Web browsers, Web application development, trends and directions, and more.

Includes new coverage on technologies such as application primers, Ruby on Rails, SOAP, XPath, P3P, and more Explores the fundamentals of HTTP and its evolution Looks at HTML and its roots as well as XML languages and applications Reviews the basic operation of Web Servers, their functionality, configuration, and security Discusses how to process flow in Web browsers and looks at active browser pages Addresses the trends and various directions that the future of Web application frameworks may be headed This book is essential reading for anyone who needs to design or debug complex systems, and it makes it easier to learn the new application programming interfaces that arise in a rapidly changing Internet environment.

A first book for C programmers transitioning to C++, an object-oriented enhancement of the C programming language. Designed to get readers up to speed quickly, this book thoroughly explains the important concepts and features and gives brief overviews of the rest of the language. Covers features common to all C++ compilers, including those on UNIX, Windows NT, Windows, DOS,

and Macs

Presents three methods for evaluating the structure of large software systems during the design phase. The three techniques separately test for whether quality goals are met and how they interact; for modifiability and functionality; and for the feasibility and suitability of a set of services provided by a portion of the system. The authors, who are members of Carnegie Mellon's Software Engineering Institute, illustrate how to apply each step of the methods through case studies. c. Book News Inc.

A practical introduction to SNMP for system network administrators. Starts with the basics of SNMP, how it works and provides the technical background to use it effectively.

Mobile Web services offer new possibilities and extraordinary rewards for the mobile telecommunications market. Service-oriented architectures (SOAs) implemented with Web services are fundamentally changing business processes supported by distributed computing. These technologies bring forward the promise of services available at any time, in any place, and on any platform. Through mobile Web services, operators can offer new value-added services for their users, explore new business opportunities and increase revenue and customer retention. This expands the commercial opportunities for developers to promote their applications and enables solutions that work seamlessly across computer and mobile environments. Mobile Web Services is a comprehensive, up-to-date and practical guide to adapting mobile Web services-based applications. The expert author team from Nokia explain in depth the software architecture and application development interfaces needed to develop solutions for these technologies. Mobile Web Services: Architecture and Implementation: Provides a complete and authoritative text on implementing mobile Web services. Describes the mobile Service-Oriented Architecture (SOA) concept. Covers the discovery, description and security of Web services. Explains how to use Simple Object Access Protocol (SOAP) in Web service messaging. Discusses the challenges and possibilities of mobile Web services, and gives case studies to illustrate the application of the technology. Presents the Nokia Mobile Web Services platform. Offers material on developing mobile Web service clients using C++ and Java. This text is essential reading for wireless Web architects, mobile application developers and programmers, software developers, technical officers and consultants, as well as advanced students in Computer Science and Electrical Engineering.

Applying revision control system and source code control system.

One of Java's most striking claims is that it provides a secure programming environment. Yet despite endless discussion, few people understand precisely what Java's claims mean and how it backs up those claims. If you're a developer, network administrator or anyone else who must understand or work with Java's security mechanisms, Java Security is the in-depth exploration you need. Java Security, 2nd Edition, focuses on the basic platform features of Java that provide security--the class loader, the bytecode verifier, and the security manager--and recent additions to Java that enhance this security model: digital signatures, security providers, and the access controller. The book covers the security model of Java 2, Version 1.3, which is significantly different from that of Java 1.1. It has extensive coverage of the two new important security APIs: JAAS (Java Authentication and Authorization Service) and JSSE (Java Secure Sockets Extension). Java Security, 2nd Edition, will give you a

clear understanding of the architecture of Java's security model and how to use that model in both programming and administration. The book is intended primarily for programmers who want to write secure Java applications. However, it is also an excellent resource for system and network administrators who are interested in Java security, particularly those who are interested in assessing the risk of using Java and need to understand how the security model works in order to assess whether or not Java meets their security needs.

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