Management Module

Management and Security Issues

A Module from e-Business and Distributed Systems Handbook

Amjad Umar, Ph.D.
E-Business and Distributed Systems Handbook: Overview Module, Amjad Umar, nge solutions, inc, 2003, 0972741453, 9780972741453, 264 pages. This module explains the management and support aspects of distributed systems with special attention to e-business and security. This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. Chapters of this module discuss the following topics a) planning, organizing, staffing, and monitoring/control activities in e-business environments; b) the emerging role of "management platforms" such as Tivoli and Openview that can be used to manage networks, databases, applications, and computer systems; c) the importance of security in modern digital enterprises with risk analysis and a methodology; d) security management approaches and the basic cryptography techniques such as public/private key encryption, PKI, digital certificates, digital signatures, and digital envelopes; e) how to use the security technologies and approaches to develop solutions that secure corporate networks, computing platforms, middleware services, databases, and applications; and e) state of the practice (case studies), market (commercial products), and art (research and development trends) of e-business applications. Chapters of the module also include several real life examples and case studies to highlight practical applications. Additional information and instructor material available from author website (www.amjadumar.com).

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A Pattern Language Towns, Buildings, Construction, Sara Ishikawa, Murray Silverstein, 1977, Architecture, 1171 pages. Two hundred and fifty-three archetypal patterns consisting of problem statements, discussions, illustrations, and solutions provide lay persons with a framework for engaging in ....

The Internet Marketing Digest Discover How to Market Any Product Or Service Online and Offline for Pennies Using Proven Time Tested Methods, Bob Brolhorst, Jul 1, 2001, Business & Economics, 244 pages. The purpose of this book is to step by step show businesses large or small, how to startup and promote their products and services on the internet using mostly FREE and low ....


Distributed computing a practical synthesis of networks, client-server systems, distributed applications, and open systems, Amjad Umar, 1993, Computers, 736 pages. This book explores both the technical and management aspects of distributed computing focusing on interrelationships, interfaces, and integration. Comprehensive in scope, this ....


Information Security and Auditing in the Digital Age, Amjad Umar, Jan 1, 2003, Computers, 548 pages. This book provides a recent and relevant coverage based on a systematic approach. Especially suitable for practitioners and managers, the book has also been classroom tested in ....

E-Business and Distributed Systems Handbook E-Business and Distributed Systems Handbook:
Integration Module, Amjad Umar, Jan 1, 2003, Business & Economics, 250 pages. This module of the handbook concentrates on the integration and migration strategies and technologies. Topics include strategic issues in integration versus migration, enterprise integration, and migration architectures and technologies. This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. This module includes several examples and case studies to explain the key points. Chapters of this module discuss the following topics: - Overview of enterprise integration with existing (including legacy) applications. - Conceptual discussion of strategic and technical choices with promises and pitfall. - Enterprise and inter-enterprise application integration (EAI/eAI) technologies and platforms. - Data warehouses and their role in integration. - Migration strategies 9complet, partial, gradual, cold-turkey, and enabling technologies. - State of the practice (cases), market (commercial products), and art (research issues) of enterprise application integration. Additional information and instructor material available from author website (www.amjadumar.com).

This module explains the enterprise application integration and migration strategies, architectures and technologies. This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. This module includes several examples and case studies to explain the key points. Chapters of this module discuss the following topics: - Overview of enterprise integration with existing (including legacy) applications. - Conceptual discussion of strategic and technical choices with promises and pitfall. - Enterprise and inter-enterprise application integration (EAI/eAI) technologies and platforms. - Data warehouses and their role in integration. - Migration strategies 9complet, partial, gradual, cold-turkey, and enabling technologies. - State of the practice (cases), market (commercial products), and art (research issues) of enterprise application integration. Additional information and instructor material available from author website (www.amjadumar.com).

This is one module of a comprehensive handbook, which consists of several modules that discuss the management as well as technical issues based on a common framework. Each module, available separately, is written as a self-contained booklet that can be used for independent study of the subject matter or combined with others for a broader view:

I read this book (it should not be called a module, it is a complete book!) after going through many books and articles on enterprise integration. For the money, this is the best treatment of business issues, strategic choices, and enabling technologies for EAI. Umar starts with a very good
discussion of various integration strategies and the tradeoffs. Approaches to deal with legacy applications are clearly spelled out including access in place, data warehouses, and migration (gradual/cold turkey). Then a very solid discussion of EAI platforms is presented with a spotlight on XML, Web services, message brokers, screen scrapers, and all that. I really like the categorization of EAI-lite, EAI-mid, and EAI-heavy to emphasize that not all integrations are multi-million, multi-year projects. The role of data warehouses in integrations and when/how to migrate is also covered quite well. The examples and case studies in the last chapter to summarize state of the practice, market, and art is quite beneficial.

Umar is a good writer who has a good practical as well as theoretical knowledge of the subject matter (a rarity). In this and other modules of this handbook, he always starts with a conceptual framework and then explains different pieces of the framework through examples, commercial products, and relevant research findings. His focus is practical but he discusses the underlying principles and foundations quite well so that the material is useful for university/industrial courses. Large sources of additional materials and Web links further add to the academic value. Although this module is self-sufficient, it should be combined with architecture and middleware modules of the handbook due to their affinity to the subject matter. It is a very worthwhile study.

This module presents network services that transport the traffic between consumers, businesses, suppliers, government agencies, and various other players in an Internet environment. This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. Chapters of this module discuss the following topics: a) physical network concepts, categories, and technologies, b) network architectures and interconnectivity devices that combine the physical networks into a large global network (the Internet), c) telecom business that includes bandwidth trading and network integration, among others, d) wireless and broadband networks that are being merged to form the Next Generation Networks, e) discussion of IP in detail and evolution of the current Internet into Next Generation Internet, and f) industrial use (state of the practice), commercial product development (state of the market), and research activity (state of the art) in networks. Chapters of the module also include several real-life examples and case studies to highlight practical applications. Additional information and instructor material available from author website (www.amjadumar.com).

What is the Internet? How does it work? Why is it so important? These questions can be very confusing to someone without a computer science or IT background. After reading this Networks module, I feel I finally have a very good understanding of the power of the IP networks. I highly recommend this module to anyone with an iota of curiosity about the Internet.

Although it's not breezy reading, even as a business school student I had little trouble with the technical explanations. Dr. Umar uses real-world examples. In fact, the information is so practical that now I know the actual meaning behind terms such as Ethernet, LAN's, WAN's, MAN's, NIC, RJ45, cable modems, DSL, T1, T3, optical fiber, ATM Frame relay, etc. The module also covers Voice Over IP and the inevitable convergence of voice and data - no wonder phone companies are running scared. In addition, wireless technologies, cellular phones and 3G are also addressed.

"This is overview of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. This module of the handbook paints the big picture of the Next Generation Real-time Enterprises with numerous case studies to highlight the key points."

Check out the Digital Design Bookstore, a new hub for photographers, art directors, illustrators, web developers, and other creative individuals to find highly rated and highly relevant career resources. Shop books on web development and graphic design, or check out blog posts by authors and thought-leaders in the design industry. Shop now

This paperback gives an excellent overview of the technical as well as strategic issues in e-business and distributed systems. It sets the stage for all other modules of the handbook (applications,
architectures, integration, networks, middleware, platforms, and management) through several real life case studies and examples. The preface very nicely shows several course examples where the modules can be used and points to the instructor material that is available from the author site. The first chapter starts with a discussion of strategic issues in e-business and shows how the latest distributed computing technologies enable these strategies. The discussion of Real-Time enterprises is well placed in the discussion. The second chapter contains many case studies and examples to highlight the practical issues.

This module explains what is middleware and how it interconnects remotely located users, applications, and databases in the modern digital corporations. This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. Chapters of this module discuss the following topics: a) Middleware Principles, Basic Services (RPC, MOM, RDA, Publish/Subscribe) and Distributed Architectures, b) Web Technologies, XML, Semantic Web, and Web Services Concepts, c) Distributed Objects, CORBA, Web Services, SOAP, WSDL, UDDI, J2EE, .NET, d) Enterprise Data and Transaction Management (TP Heavy, TP Lite), and e) Middleware State of the Practice (Case Studies), Market (Commercial Products), and Art (Research and Development Trends). Chapters also include several real life examples and case studies to highlight practical applications. Additional information and instructor material available from author website (www.amjadumar.com).

Dr. Umar tested this module, and companion modules, in a class of his which I took in graduate school. While I was a professional student familiar with most of the topics at some level, I noticed he did an excellent job of providing a structured overview of the middleware technology landscape in the Middleware module. In particular, I liked the fact that he went beyond descriptions of systems and services to also look at practical issues like tradeoffs among different middleware technologies relative to specific types of applications. Also, the writing and visual style is at a pleasant enough level that you don't get lost in the complexities associated with all technologies. If you're new to the middleware area, and desire an initial broad brush overview, I highly recommend this module, especially given its reasonable price. Once you're done with it, you can confidently venture to other more detailed (and expensive) texts to investigate a specific topic, without losing the topic's context in the general scheme of things.

AMJAD UMAR, Ph.D. is a Senior Scientist at Bellcore, and an Adjunct Professor at Rutgers University, Stevens Institute of Technology and the Fordham Graduate School of Business. At Bellcore, he specializes in distributed systems, and consults/leads projects in middleware for advanced data networks, electronic commerce, data quality, Web access to corporate resources, large scale data management, and legacy system re-engineering. He is also author of the companion book "Object-Oriented Client/Server Internet Environments."
This module explains the growing number of Application Servers and their variants (Mobile Application Servers, Commerce Servers, B2B Servers, Multimedia and Collaboration Servers). This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. The focus of this module of the handbook is on application servers that package several middleware and infrastructure services into a platform for development, deployment, and management of modern applications. Chapters of this module explain the principles of application servers and systematically discuss a) Mobile Application Servers based on WAP, I-Mode, J2ME, and others; b) Commerce Servers based on e-payment systems, electronic catalogs, XML, secure C2B trade; c) B2B Servers based on ebXML, Web Services, workflows, EDI, EAI; d) Multimedia and Collaboration Servers based on groupware, SMIL and RTP; and e) "Super Application Servers" that combine numerous services needed for Web, mobile applications, and EC/EB applications on a single platform (IBM's WebSphere is an example). Chapters of the module also include several real life examples and case studies to highlight practical applications. Additional information and instructor material available from author website (www.amjadumar.com).
EAI/eAI platforms, data warehousing for integration, migration strategies and replacements with ERPs (UPDATED: AUGUST 2004)

MODULE (MANAGEMENT) --Management and Security Issues: Management of e-Business, IS planning, security management, basic cryptography, PKI, security architectures, security solutions for wireless and wireline networks, web and application security, system assurance methodology, network and systems management platforms

The book is based on a very impressive framework, if I may say so myself. The framework represents the major building blocks (applications, architectures, integration, networks, middleware services, and management/support). The modules of this book, as discussed below, cover the building blocks (five chapters per module).

* This module has been revised considerably to highlight the role of Web Services in component-based architectures. In particular, the first chapter of this module has been practically re-written to emphasize Web Services and Service-Oriented architectures (SOAs). The second chapter also includes an examination of Web Services and SOAs for component-based systems.

* This Module has been revised considerably to emphasize and highlight the role of Web Services in Enterprise Application Integration. In particular, Chapter 1 shows how Web Services can be used in EAI and Chapter 2 has an extended discussion on using Web Services as EAI platforms with strengths/weaknesses of Web Services. Chapter 4 has also been updated to reflect the use of Web Services in migrations.

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