

Introduction

Nothing is more visible to users and business unit managers than an application that does not work! In the age of the digital enterprise, superior performance is critical to maintaining a competitive advantage. In order to meet those requirements, applications must be managed as efficiently and effectively as possible. Over the years, as applications have become increasingly complex, they require increasingly sophisticated management tools as well as techniques tailored to meet the unique requirements of each new application technology. This makes it imperative to stay abreast of new trends in application management processes, techniques, and tools.

At the same time, applications are now running in an expanding array of operating environments (mainframes, servers, personal computers, mobile devices, Internet of Things devices, etc.). Each of those environments is unique and in turn necessitates that application management tools and techniques be adapted accordingly. In *Managing Applications in the Digital Enterprise*, we aim to provide the reader with a solid understanding of application management in each of the diverse environments where it is required and to explain how to effectively manage applications in each of those environments.

WHO WILL BENEFIT FROM THIS BOOK?

This book is aimed at four primary audiences: information technology (IT) practitioners, IT managers, designers and developers of applications, and line of business managers. The first three share the responsibility for applications being available and functioning as intended. The designers and developers have the unique responsibility of creating and maintaining applications that meet the requirements of users and are reliable. The fourth group (line of business managers) relies on the applications to enable them to do their work. This book is designed to give the advice and direction to enable each of these groups to meet their unique objectives.

FEATURES

Managing Applications in the Digital Enterprise provides a comprehensive discussion of application management processes, techniques, tools, and standards, along with the history, current art, and future promise of application management in the multifaceted environment of mobile and cloud computing. Topics covered in-depth include:

- How application management has evolved over the years
- How to manage
 - Traditional applications
 - Applications in the cloud environment
 - Virtualized systems
 - Mobile applications
 - Web-based applications

- Application security
- Distributed, tiered, and componentized application architectures
- DevOps and continuous delivery
- Application programming interfaces and connected systems
- Application performance and the user experience
- Containerized applications
- Software-defined data center
- Internet of Things
- The Case for Application Management Standards
- What to expect in application management in the future

From the Authors

In this book, we have created a unique and useful reference on the evolution of applications, the current state of affairs in application management, existing tools, major application management standards, and expectations in the application management arena as it moves forward. It is our hope that in doing so, we can equip applications managers and developers with the information and skills required to implement best practice application management strategies for both today and into the future.

In writing this book, we have drawn on our joint expertise in IT operations and application development. If you're ready to improve your application management and people management skills, this book is a must-read.