



MASTERING CLOUD COMPUTING

FOUNDATIONS AND APPLICATIONS PROGRAMMING

Rajkumar Buyya, Christian Vecchiola, S. Thamarai Selvi

"Buyya et al. take us on a journey through clouds: from theory to practice, from history to future, from computation- to data-intensive. They elicit our academic curiosity and industrial pragmatism. They go deep into cloud basics of virtualization and threads, to the heights of application in genomics and customer relationship management."

—Dejan Milojcic, HP Labs, Managing Director of Open Cirrus Cloud Computing Testbed, IEEE Computer Society President 2014

Learn the fundamentals of application development for cloud computing.

Mastering Cloud Computing teaches the fundamental principles of cloud computing and how to develop applications. Tomorrow's applications won't live on a single computer but instead will be deployed from and reside on a virtual server, accessible anywhere, any time. Tomorrow's application developers need to understand the needs and demands of building apps for these virtual systems, including concurrent programming, high-performance computing, and data-intensive systems. This book provides examples demonstrating all of these and more, with exercises and labs throughout and a live environment on the Aneka platform where you can experiment and test your work.

Key Features

- Explains how to make design choices and trade-offs to consider in building applications to run in a virtual cloud environment
- Provides an environment in which you can test and experiment with a live cloud system on the Aneka platform
- Describes real-world case studies, including scientific, business, and energy-efficiency considerations
- Allows readers to download examples and instructor support materials on the book's companion Web page

About the Authors



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