

# Cloud Computing: Concepts, Architecture and Applications with Real-world examples and Case Studies

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## Description

With the advent of the Internet, there is a complete paradigm shift in the manner we comprehend computing. Need to enable ubiquity, convenient and on-demand access to resources in highly scalable and resilient environments that can be remotely accessed, gave birth to the concept of Cloud Computing. The acceptance is so rapid that the notion influences sophisticated innovations in academia, Industry, and research worldwide and hereby change the landscape of Information technology as we thought of. Through this book, the authors tried to incorporate core principles and the basic notion of cloud computing in a step-by-step manner and tried to emphasize key concepts for clear and thorough insight into the subject.

This book begins with the fundamentals of cloud computing, its service and deployment models, architecture, as well as application.

## Key Features

- Provides a sound understanding of the Cloud Computing Concepts, Architecture and its applications
- Explores the practical benefits of Cloud Computing services and deployment models in details
- Cloud Computing Architecture, Cloud Computing Life Cycle (CCLC), Load balancing approach, Mobile Cloud Computing (MCC), Google App Engine (GAE)
- Virtualization and Service-Oriented Architecture (SOA)
- Cloud Computing applications - Google Apps, Dropbox Cloud, and Apple iCloud and its uses in various sectors - Education, Healthcare, Politics, Business and Architecture.
- Cloud Computing platforms - Microsoft Azure, Amazon Web Services (AWS), Open NABULLA, Eucalyptus, Open stack, Nimbus and The Apache Hadoop Architecture.
- Adoption of Cloud Computing technology and strategies for migration to the cloud.
- Cloud computing adoption case studies - Sub-Saharan Africa and India.

## Cite:

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