Enterprise Cloud Computing

By Gautam Shroff

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Cloud computing promises to revolutionize IT and business by making computing available as a utility over the internet. This book is intended primarily for practising software architects who need to assess the impact of such a transformation. It explains the evolution of the internet into a cloud computing platform, describes emerging development paradigms and technologies, and discusses how these will change the way enterprise applications should be architected for cloud deployment. Gautam Shroff provides a technical description of cloud computing technologies, covering cloud infrastructure and platform services, programming paradigms such as MapReduce, as well as 'do-it-yourself' hosted development tools. He also describes emerging technologies critical to cloud computing. The book also covers the fundamentals of enterprise computing, including a technical introduction to enterprise architecture, so it will interest programmers aspiring to become software architects and serve as a reference for a graduate-level course in software architecture or software engineering.

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Enterprise Cloud Computing By Gautam Shroff Bibliography

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Editorial Review

Review
"Gautam Shroff's new book has arrived at a critical time and ably serves the computer professional wishing explore important new information technology. The past few years have seen an acceleration in the normally rapid pace of technological change. Cloud computing is becoming the new reality. It requires an understanding of virtualization and of the new systems designed to support massively parallel computation in the cloud: map-reduce, Hadoop, Hive, and many others. These techniques in turn make possible very large-scale enterprise analytics, using a variety of modern data-mining algorithms. In a succinct way, the author introduces us to all of these technologies and provides a unique perspective on today's IT infrastructure."
Jeffrey D. Ullman, Professor Emeritus, Stanford University

"Clouds are usually associated with vapor, and are close cousins of fog and mist - Gautam's book is a huge step forward in bringing clarity and tangibility into this exciting next stage of evolution in enterprise IT. Gautam has a deep understanding of the cloud from the technology, customer requirement, service provider and innovator perspectives. I am glad he has translated this wealth of knowledge to the benefit of the greater technical community."
K. Ananth Krishnan, Chief Technology Officer, Tata Consultancy Services

"This book provides a sound foundation for software architects who need to understand the potential impacts of moving to cloud computing."
David G. Hill, Computing Reviews

About the Author
Gautam Shroff heads TCS' Innovation Lab in Delhi, a corporate R&D lab that conducts applied research in software architecture, natural language processing, data mining, multimedia, graphics and computer vision. Additionally he is responsible for TCS' Global Co-Innovation Network (COIN) which works with venture backed emerging technology companies to create and take to market solutions that have disruptive innovation potential. Further, as a member of TCS' Corporate Technology Board, he is part of the process of recommending directions to existing R&D efforts, spawning new R&D efforts, sponsoring external research, and proliferating the resulting technology and intellectual property across TCS' businesses.

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