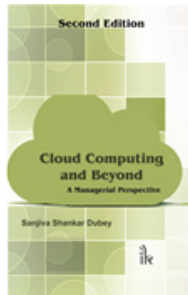# Cloud Computing and Beyond
A Managerial Perspective 2nd Edition

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Author: Prof. Sanjiva Shankar Dubey
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The author, Prof. Dubey, has come up with 2nd edition of his book "Cloud Computing and Beyond" in a very organized manner. Cloud computing is a key emerging discipline and seeks attention of IT, management professionals and students. The book proves to be very good source of information for beginners as the book starts with the general queries of the readers eg- what is cloud computing, why is it required, how cloud services can be obtained etc. the book is written in a user friendly manner.

Chapter 1 of the book gives answers to the general queries of the readers like, what, why, how and when about cloud computing. It builds the foundation of the readers. Other than fundamental information of cloud computing the chapter explains classification of cloud based on different models. Significance of Service Level Agreement (SLA), virtualization and critical success factors for cloud computing is thoroughly explained.

In chapter 2 the architecture required for maintaining cloud computing is explained in detail with examples. Layered model of architecture, cloud ecosystem and cloud architecture components are explained in detail. IBM smart-cloud, Microsoft Windows Azure, Amazon EC2 are few cases which have been discussed in detail.

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Chapter 3 explains the technology building blocks that make cloud computing possible and acceptable to a very large number of users. Other than this technology, building blocks, cloud business management technology is explained which is used to manage challenges of workloads across multiple customers. Leading cloud providers and software providers are also discussed in this chapter.

4th chapter of the book introduces various business models used in the market. This chapter also educates the readers about various players and services in cloud computing implementation. The cost model of cloud computing services gives a fair idea in which way the expenditure on these services will be done. This chapter is a must read for marketing management students.

Chapter 5 explains various stages of cloud adoption and implementation thoroughly. The challenges of data migration, day-to-day operations, security and privacy issues are explained in detail for adopting cloud model.

Chapter 6 gives solutions to the challenges of cloud model which were discussed in the previous chapter. The author classified the challenges into three different classes to discuss the same in a more refined way. The author also described some prominent cloud security companies and their products and services to management and engineering students and professionals.

Chapter 7 focuses on cloud applications. Amazing services provided by Google, amazon or Salesforce. com would not have been possible in absence of cloud technology. Social applications provided by Google; eg- Google App Engine, Google music,

Google Docs, Google Print, Flickr, Force.com, mint, Wikipedia, online gaming, DropBox etc. all such applications are being enjoyed by the whole world in nano seconds time due to cloud technology. Author explained cloud applications and opportunities for SMEs and increased use of analytics using cloud. The chapter concluded with a list of detailed sub offering wise companies list.

Although chapter 8 is very small but it is of very high importance of emerging standards of cloud computing and governance management. The main focus on the management aspects of IAAS and PAAS is made in the chapter. Emerging standards in cloud computing are explained including virtual management standards (VMAN). Various cloud standards development organisations (SDOs) and the types of work they are engaged in is further discussed in the chapter.

In chapter 9, author showed mirror to IT professionals with a fact that now IT industry has also started contributing emission of carbon di oxide and other greenhouse gases by 2% worldwide. This requires that the adverse impact on environment due to I industry be maintained with efficient usage of IT infrastructure including enhanced use of cloud computing and greening of cloud infrastructure. The chapter gave an idea how cloud computing can reduce GHG emission. Green cloud computing architecture is explained with detailed examples. How energy can be used efficiently in a data center, is thoroughly explained at the end of the chapter.

Chapter 10 is all about data security on cloud. This chapter creates an understanding of the entire range of the cloud security and prescribe countermeasures while adopting cloud computing options. The author defined a process to ensure cloud security. The chapter outlined the security design principles for cloud computing.

Chapter 11 has a futuristic approach. Author discussed about various prominent technologies which are about to come into existence in near future after cloud computing. Other than concepts, their usefulness, challenges and applications have also been explained.

Chapter 12 is very useful for students and professionals as it provides them an in-depth knowledge of different opportunities for various companies and professions arising out of the growth of cloud computing. Author has done a lot of research and recognized that like any new technology, cloud computing will also offer multiple opportunities for multiple players.

The whole book is concluded in chapter 13 very beautifully. In case anyone needs to know about content of the whole book, may glance through this chapter and will get a through idea of what the book is all about.

In conclusion, this book along with lots of examples is very exhaustive and will be able to cater to the needs of students and professionals from a variety of disciplines including Management, Information Technology etc. where cloud computing has become the core of success of their career.