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Analyzing Cloud Computing

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Abstracts

Cloud computing is a shift following the switchover from mainframe to client–server in the early 1980s. Cloud computing is web-based processing, whereby shared resources, software, and information are provided to computers and other devices on demand over the Internet.

Cloud computing describes a new supplement, consumption, and delivery model for IT services based on the Internet, and it typically involves over-the-Internet provision of dynamically scalable and often virtualized resources. It is a byproduct and consequence of the ease-of-access to remote computing sites provided by the Internet.

Aruvian's R'search presents its research report Analyzing Cloud Computing – a complete analysis of the emerging market of cloud computing.

The research report begins with an introduction to the concept of cloud computing. Section B explains what cloud computing is, the history of cloud computing, emergence of the network, cloud architecture, cloud application programming interfaces along with the cost logic of cloud computing. Regulations impacting cloud computing is also discussed and the most important point to consider: the advantages and disadvantages of cloud computing – without which, the reader will not an idea as to the importance of cloud computing in today's IT-connected world.

Moving on we cover the market for cloud computing, including industry statistics and market data. Section D then covers the important features of cloud computing such as rapid elasticity, measured service, ubiquitous network access and other characteristics that make cloud computing just so lucrative!

Section E and F cover the delivery and deployment models for cloud computing. In these sections deployment models such as the public cloud, the private cloud, hybrid

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cloud, special purpose clouds, as well as delivery models such as Saas, Paas, and IaaS are covered in-depth.

Going ahead to section G, the Application Programming Interfaces, or APIs, that are required for building cloud computing solutions are discussed. Meanwhile, section I discusses the taxonomy for cloud computing. In this section, we discuss the service consumer, the service provider, and the service developer. A complete section that helps the reader understand the classification for cloud computing.

Moving on, we analyze the various benefits of cloud computing such as the ease of ubiquity, customization options, and many more advantages of cloud computing.

Further to this, section K discusses what all is required for deploying of a cloud system. In this, we analyze the deployment of a private cloud system, role of cloud vendors, the role of IT players, and some successful cloud system deployment case studies.

Organizational cost advantages of cloud systems are discussed in section M and this is followed by the technological aspects of cloud systems that includes the potential of multi-tenancy, security and privacy issues, as well as data management.

Regulatory issues and government investment, commercialization of the cloud computing system along with the global cloud exchanges and markets are analyzed in the following sections.

Section S is dedicated to analyzing cloud clients that includes hardware and software clients, along with the pros and cons of cloud clients. Other related concepts to cloud computing is analyzed in section T – this section covers the Future Internet of Services and Things, along with the role of grids in the cloud concept. The emergence of service oriented architecture is also analyzed.

Following this, sections covering case studies from various government uses of cloud computing as well as several cloud computing projects are discussed.

Aruvian’s research report Analyzing Cloud Computing analyzes 150 of the major players in this industry such as Akamai, Amazon Web Services, Microsoft, Google, AT&T, CA, Cisco, Dell, HP, Informatica, and many others are analyzed in this report,

The report Analyzing Cloud Computing is a complete guide to understanding the concept of Cloud Computing and is an excellent aid for anyone interested in learning

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about this emerging concept!

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