Abstract

Cloud computing is innovative model in which the information is permanently stored on the servers and manages the different resources for the requested users to provide on-demand services. In order to create the more useable and economic value based cloud computing, the principals, goals and structure of the cloud engineering is vital important. Cloud engineering is
an interdisciplinary field of engineering that focuses on cloud services. To understand the structure of cloud engineering, four components are given in this paper, such as Base; Tools and Techniques; cloud development life cycle; and Management. Base component provides knowledge about various principles, methods, and taxonomy of the cloud computing. Tools and Techniques component sets up and defines the various tools, techniques, utilities, and libraries used for the implementation. The cloud development life cycle component is the iterated life cycle model for development and delivery of cloud. The Management of cloud computing solution is done from multiple perspectives such as design and run time cloud management; configuration, operational, asset, and risk management. These components give a complete set of knowledge and are discussed one by one in the paper.

Reference

- Community cloud computing benefits and drawbacks available at http://searchvirtualdatacentre.techtarget.co.uk/news/1510117/Community-cloud-Benefits-and-drawbacks
- Michael glas and Paul Andres. Oct 2010. An Oracle white paper in enterprise architecture—achieving the cloud computing vision. CA-U.S.A.
- Applied Cloud Engineering (ACE) available at www.appliedcloudengineering.com
- Cloud Computing at http://www.cloudcomputingtechnology.org

Index Terms

Computer Science  Cloud Computing
Key words

Cloud  Cloud service  Cloud engineering

Cloud development life cycle