Abstract

Cloud computing is an automatic multitenant pay-as-you go service accessed through web browsers. The main services of cloud computing are software as a service, infrastructure as a service and platform as a service. These services are very much helpful and beneficial to IT organizations undergoing severe budgetary constraints. In this paper the major enablers of cloud computing services are taken by discussing with experts and through literature survey. An interrelation ship among the enablers are done with FISM(Fuzzy Interpretive Structural Modeling and FMICMAC(Fuzzy MICMAC) analysis. An initial reachability set is constructed from structural self interaction matrix (SSIM) and final reachability set by considering a scale 0-1 instead of binary condition. Enablers chosen are classified into four clusters based on their driving power and dependence power. From MATLAB FISM model is derived. This paper highlights the most sensitive enablers of cloud computing services.
FISM and FMICMAC Analysis on Enablers of Cloud Computing

- Tim Mather, Subra Kumaraswamy, Shahed Latif, "Cloud Security and Privacy- An Enterprise Perspective on Risks and Compliance" O'Reilly
presentation, EMC, Tsinghua Univ. , 25 May 2010.
- Gartner Says Cloud Computing Will Be As Influential As E-business.
- Thakkar. J., Kanda. A. and Deshmukh, S. G. (2008), Interpretive Structural Modeling (ISM) of IT-enablers for Indian
- Pramod and. Banwet D. K (2010), Interpretive structural modeling for understanding the inhibitors of a telecom service supply chain. (IEOM) (Dhaka, Bangladesh), Jan -9-10, 2010.

Index Terms

Computer Science
Distributed Systems

Keywords
Cloud fuzzy ISM fuzzy MICMAC SSIM driving power dependence power.