

Cloud Computing

Janhavi Padhya and Ms. Anjali Yadav

Shri G. P. M. Degree College, Vile Parle (E), Mumbai, Maharashtra, India

Abstract: *Cloud computing is a technology that allows users to access and use computing resources, such as servers, storage, databases, networking, software, and more, over the internet. Instead of owning and maintaining their own physical hardware and software infrastructure, individuals and organizations can rent or lease these resources from cloud service providers. These resources are hosted in data centers around the world, and users can access them on a pay-as-you-go basis, scaling their usage up or down as needed. An increasing number of companies make use of Cloud Computing services in order to reduce costs and increase flexibility of their IT infrastructure. This has enlivened a debate on the benefits and risks of Cloud Computing, among both practitioners and researchers. This study applies quantitative content analysis to explore the Cloud Computing ecosystem. The analyzed data comprises high quality research articles and practitioner-oriented articles from magazines and web sites. We apply n-grams and the cluster algorithm k-means to analyze the literature. The contribution of this paper is twofold: First, it identifies the key terms and topics that are part of the Cloud Computing ecosystem which we aggregated to a comprehensive model. Second, this paper discloses the sentiments of key topics as reflected in articles from both practice and academia.*

Keywords: Virtualization, Scalability, Data Center, SaaS (Software as a Service), Security