Abstract

Cloud computing is the latest emerging technology which offers reduced capital expenditure, complexity, operational risks, maintenance, and increased scalability while providing the services at different abstraction levels, namely Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS). A new approach called cloud networking that enables and adds the networking functions and resources to cloud computing and provide the means of dynamic and flexible placement of virtual resources that crossing over provider borders. It also allows various kinds of functionalities and optimization techniques, e.g., reducing network load. This approach brings out and enables new security challenges. This paper presents a new security architecture, which enables the user of cloud networking to illustrate the security requirements and apply them in the cloud networking infrastructure.

References

- Lucinda Borovick and Rohit Mehra, IDC White paper &quot;Architecting the Network for the Cloud,&quot; Cisco Systems, January 2011.
Architecting the Network for the Cloud using Security Guidelines


Index Terms

Computer Science

Networks

Keywords

Cloud Service Consumer; Cloud Service Provider; Virtual Infrastructure Provider; Cloud Service Creator; Virtual Resources.