

ICAC3'15

Regional parting and equipoise distribution of job on cloud division for public cloud

Anisaara Nadaph^a, Vikas Maral^b

^a*K.J's Educational Institute, Kondhawa - Saswad Road, Pune -48, India*

^b*K.J's Educational Institute, Kondhawa - Saswad Road, Pune -48, India*

Abstract

Cloud computing has given boom to I.T due to its scalability, obtainability, consistency that it offers, It has provided the platform for industries or general user to store huge amount of data with lower cost. Arduous work in this sector is carried out still due to its versatility much work need to be still done. The key work is in balancing of huge amount of load as there are numerous resources used in it. Also under different load condition the criteria to select node will be different. There are enormous dynamic and static load balancing algorithm available. In the proposed system the load balancing is done for Idle, Normal and overloaded or waveringly condition of the balancer, the balancer selects the appropriate node for storage of data for different condition.

© 2015 The Authors. Published by Elsevier B.V. This is an open access article under the CC BY-NC-ND license

(<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

Peer-review under responsibility of organizing committee of the 4th International Conference on Advances in Computing, Communication and Control (ICAC3'15)

Keywords: Cloud, Balanced Ant Family, Honey Bee scavenger communication, Cloud division, Balancer.

1. Introduction

One of the leading and powerful technology in the world of networking is cloud computing[6][7][8]. Cloud computing[9] is designed to make web-scale work out easier. NIST [5] has defined cloud computing as an archetypal for empowering on demand system access to mutual pool resource in universal and appropriate way

The four deployment archetypal of cloud computing are[3][13], three archetypal are shown in Fig.1

- Public cloud - This archetypal is accessible to all users on a salable basis by the service providers, this archetypal has less security as compared to other archetypal
- Private cloud - This archetypal has its area restricted to specific organization.

* Corresponding author. Tel.: +0-000-000-0000 ; fax: +0-000-000-0000.

E-mail address: author@institute.xxx

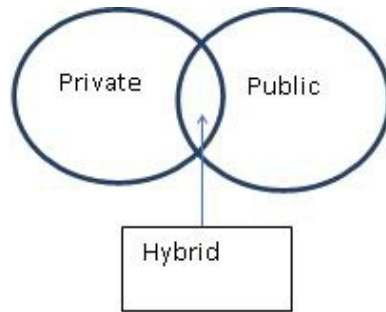


Fig. 1. Deployment models of Cloud

- Hybrid cloud - The archetypal consists of a combination of different clouds, this gives the elasticity to transfer data and/or applications from one archetypal (Public or Private) to another.
- Community cloud - This archetypal is for a definite kind of party with similar interest.

There are 3 different types of Delivery model in cloud[11].

- SaaS(Software as a service) - This type of archetypal a software request can be obtained on request and there is no need to install , setup and running of application.
- PaaS (Platform as a service) provide computing platform via operating system, language execution environment(software), database, web server etc
- IaaS (Infrastructure as a service)provides computing Infrastructure. This is base layer deals with storage, utility computing service and model for billing, Dynamic scaling

Table 1. Different Delivery Models

Service Class	Access Tools	Services Provided	Examples
SaaS	Any Web Browser	Application Access	Gmai, Yahooemail, XDrive
PaaS	Development Environment	Programming Language framework	Google App Engine
IaaS	Infrastructure Manager	Resources	Amazon EC2, Windows Rackspace

1.1. Advantage of cloud computing

- Price tag - Organizations can cut down the Infrastructure Price tag by chartering the infrastructure from cloud
- Scalability - As per the need the resources can be scaled up during max out hours and scaled down during Under loaded hours
- Dependability - Storing data on Cloud is reliable as the data can be retrieved from other server if primary server has encountered some crash

1.2. Virtualization

Virtualization[11] is the main concept in implementing cloud computing which means virtual kind of something. There are 2 different types of virtualization.

- Full Virtualization - The complete installation of one machine is done on another.

Download English Version:

<https://daneshyari.com/en/article/486122>

Download Persian Version:

<https://daneshyari.com/article/486122>

[Daneshyari.com](https://daneshyari.com)