Minimum-cost cloud storage service to access multiple cloud severs

Abstract:

Now a days more and more enterprisers shift their data workloads to the cloud storage in order to save capital expenditures to build and maintain the hardware infrastructures and avoid the complexity of managing the datacenters..here we are going to minimize the payment cost of the customers by using worldwide distributed data centers belonging to different CSP's with different resource unit prices .we are using integer programming for the minimization of cost problem. Later we have introduced DAR system for Np-hardness problem.

Existing System:

Data centers are not presented in the worldwide locations so that data access delay and data availability are critical In order to reduce data access latency, the data requested by clients needs to be handled by datacenters near the clients, which requires worldwide distribution of data copies. different CSPs provides different data centers so that when the user changes form one data center to another data center he pays for transfer cost twice along with storage cost.

Disadvantages:

1. Data access delay and sometimes data availability may become critical.
2. Because moving from one CSP to another the cost becomes high because they have to pay transfer cost along with the storage cost.

Proposed system:

To handle the problems in the existing system, we propose a geo-distributed cloud storage system for Data storage, request Allocation and resource Reservation across multiple CSPs (*DAR*). It transparently helps customers to minimize their payment cost while guaranteeing their SLO(service level objectives)s. Building a geo-distributed cloud storage across multiple CSPs

can avoid the vendor lock-in problem since a customer will not be restricted to an out dated provider and can always choose the optimal CSPs for the cloud storage service.

Advantages:

1. Data centers of different CSP s are world widely available so there is no chance of data access delay

2. DAR helps users to minimize their payment cost.

SYSTEM REQUIREMENTS

H/W System Configuration:-

- Processor - Pentium –III
- RAM - 256 MB (min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

S/W System Configuration:-

- Operating System : Windows95/98/2000/XP
- Application Server : Tomcat5.0/6.X
- Front End : HTML, Jsp
- Scripts : JavaScript.
- Server side Script : Java Server Pages.
- Database : MySQL 5.0
- Database Connectivity : JDBC