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PONDICHERRY – VILLUPURAM – CUDDALORE-CHENNAI

ONLINE RESOURCE SCHEDULING UNDER CONCAVE PRICING FOR CLOUD COMPUTING

ABSTRACT

With the booming growth of cloud computing industry, computational resources are readily and elastically available to the customers. In order to attract customers with various demands, most Infrastructure-as-a-service (iaas) cloud service providers offer several pricing strategies such as pay as you go, pay less per unit when you use more (so called volume discount), and pay even less when you reserve. The diverse pricing schemes among different iaas service providers or even in the same provider form a complex economic landscape that nurtures the market of cloud brokers. By strategically scheduling multiple customers' resource requests, a cloud broker can fully take advantage of the discounts offered by cloud service providers. In this paper, we focus on how a broker may help a group of customers to fully utilize the volume discount pricing strategy offered by cloud service providers through cost-efficient online resource scheduling. We present a randomized online stack-centric scheduling algorithm (ROSA) and theoretically prove the lower bound of its competitive ratio. Our simulation shows that ROSA achieves a competitive ratio close to the theoretical lower bound under a special case cost function. Trace driven simulation using Google cluster data demonstrates that ROSA is superior to the conventional online scheduling algorithms in terms of cost saving.

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EXISTING SYSTEM:

Most Infrastructure-as-a-service (iaas) cloud service providers offer several pricing strategies such as pay as you go, pay less per unit when you use more (so called volume discount), and pay even less when you reserve. The diverse pricing schemes among different iaas service providers or even in the same provider form a complex economic landscape that nurtures the market of cloud brokers. By strategically scheduling multiple customers' resource requests, a cloud broker can fully take advantage of the discounts offered by cloud service providers. , most Infrastructure-as-a-service (iaas) cloud service providers offer several pricing strategies such as pay as you go, pay less per unit when you use more (so called volume discount), and pay even less when you reserve.

DISADVANTAGES:

- resource scheduling problem for IaaS clouds
- The security is in risks, in terms of confidentiality, integrity and availability of data while outsource the data to cloud storage.
- User privacy is not achieved
- Not flexible of cost

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PROPOSED SYSTEM:

In this paper, we focus on how a broker may help a group of customers to fully utilize the volume discount pricing strategy offered by cloud service providers through cost-efficient online Resource scheduling. We present a randomized online stack-Centric scheduling algorithm (ROSA) and theoretically prove the Lower bound of its competitive ratio. Our simulation shows that ROSA achieves a competitive ratio close to the theoretical lower Bound under a special case cost function. Tracedven simulation Using Google cluster data demon striates that ROSA is superior To the conventional online scheduling algorithms in terms of cost saving.

ADVANTAGE OF PROPOSED SYSTEM:

- The computation and communication overhead are achieved
- Our proposed protocol satisfies the private checking, delegated checking and public checking
- Outsourced data security is achieved
- Time efficiency is achieved

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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