

Sla Based Energy Efficient Resource Management In Cloud

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SLA-based, Energy-Efficient Resource Management in Cloud ...

SLA-based, Energy-Efficient Resource Management in Cloud Computing Systems by Hadi Goudarzi ____ A Dissertation Presented to the FACULTY OF THE USC GRADUATE SCHOOL UNIVERSITY OF SOUTHERN CALIFORNIA In Partial Fulfillment of the Requirements for the ...

An energy efficient and SLA compliant approach for ...

An Energy Efficient and SLA Compliant Approach for Resource Allocation and Consolidation in Cloud Computing Environments Mohammad-Hossein Malekloo¹, Nadja Kara¹, and May El Barachi² ¹ University of Quebec (ETS), Montreal, Quebec, H3C 1K3, Canada ² University of Wollongong Dubai, Knowledge Village, PO Box 20183, Dubai, United Arab Emirates Corresponding author: Tel: +97156 ...

Comparison of SLA based Energy Efficient Dynamic Virtual ...

International Journal of Computer Applications (0975 - 8887) Volume 102- No16, September 2014 31 Comparison of SLA based Energy Efficient Dynamic Virtual Machine Consolidation Algorithms

SLA-Based Scheduling of Bag-of-Tasks Applications on Power ...

2 SLA-Based Power-Aware Clsuter Systems 21 DVS-Based Cluster Systems A cluster system is composed of multiple Processing Ele-ments (PEs) and a central resource controller Each PE exe-cutes submitted jobs as an independent processing unit so that it manages its own job queue and scheduler When users submit their jobs to the cluster system

Comparison of SLA based Energy Efficient Dynamic Virtual ...

Comparison of SLA based Energy Efficient Dynamic Virtual Machine Consolidation Algorithms favorability in the migration to the new energy efficient cloud architectures The results also helps in analyzing the existing frameworks and offers substantial energy savings while effectively dealing with firm QoS requirements negotiated by SLA Refer ences

Energy based Efficient Resource Scheduling: A Step Towards ...

Energy based Efficient Resource Scheduling: A Step Towards Green Computing Sukhpal Singh¹ and Inderveer Chana² Computer Science and Engineering Department, Thapar University, Patiala, India {1ssgill, 2inderveer}@thaparedu Abstract Cloud Computing is an evolving area of efficient utilization of computing resources Data centers accommodating Cloud applications ingest massive quantities of

Forward Looking Emission Aware and SLA based Routing ...

and emission parameters required for the emission awareness attribute of the Service Level Agreement (SLA) based routing mechanism introduced in [1] Without needing the LSAs of [3] 2 Related work 21 Energy Efficient Routing Mechanism Authors of work in [2] have proposed an energy and emission topology database that is consulted to find a route

SOC CER: Self-Optimization of Energy-efficient Cloud Resources

leads to the failure of the system and violates the service level agreement (SLA) Literature reports that data center infrastructure generates over 70% of total heat generated [5] Another reason of wastage of energy is resources are run-ning in idle or underutilized state Energy efficient resource scheduling in cloud is a challenging job and the scheduling of appropriate resources to cloud

Energy Efficient Virtual Machine Placement Algorithm With ...

Energy Efficient Virtual Machine Placement Algorithm With Balanced Resource Utilization Based on Priority of Resources Amin Rahimi*, Lelli Mohammad Khanli, Saeid Pashazadeh Department of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran *aminrahimi1365@gmailcom, l-khanli@tabrizuacir, pashazadeh@tabrizuacir ABSTRACT The increasing energy consumption has ...

I Q R based Approach for Energy Efficient Dynamic VM ...

VM consolidation technique that works on reducing energy consumption, VM migration, and SLA violation It optimizes the resource provisioning in order to provide efficient resource utilization The subsequent sections are organized as follows: section 2 presents related work on energy efficient dynamic VM consolidation in data center Section 3

76 IEEE TRANSACTIONS ON SUSTAINABLE COMPUTING, VOL. 2, ...

SLA-Aware and Energy-Efficient Dynamic Overbooking in SDN-Based Cloud Data Centers Jungmin Son, Amir Vahid Dastjerdi, Rodrigo N Calheiros, and Rajkumar Buyya, Fellow, IEEE Abstract—Power management of cloud data centers has received great attention from industry and academia as they are expensive to operate due to their high energy consumption While hosts are dominant to consume ...

Minimizing Data Center Energy Consumption and SLA ...

Minimizing Data Center Energy Consumption and SLA Violation via Prediction Based Resource Provisioning have proposed energy based efficient resource scheduling: A Step towards Green Computing They have discussed the architectural principles for energy efficient management of Clouds, energy efficient resource allocation strategies and scheduling algorithm considering Quality of ...

Adaptive Threshold-Based Approach for Energy- Efficient ...

•But efficient resource management in Cloud is not trivial: The workload is highly variable, causing dynamic resource usage patterns •We propose a novel approach for dynamic consolidation of VMs, which is able to reduce energy consumption and maintain the level of SLA violation as low as 1% 3 Related Work •Kusic et al use Limited Lookahead Control (LLC) -Simulation-based learning

Energy-Efficient Management of Data Center Resources for ...

proposes (a) architectural principles for energy-efficient management of Clouds; (b) energy-efficient resource allocation policies and scheduling

algorithms considering quality-of-service expectations, and devices power usage characteristics; and (c) a novel software technology for energy-efficient management of Clouds We have validated our approach by conducting a set of rigorous performance

Evolutionary Computing Based on QoS Oriented Energy ...

Evolutionary Computing Based on QoS Oriented Energy Efficient VM Consolidation Scheme for Large Scale Cloud Data Centers The optimization in VM consolidation by means of efficient dynamic resource-utilization prediction, VM selection and placement can achieve optimal solution for energy efficient and QoS oriented cloud computing system In this paper, an evolutionary computing ...

Heuristic based Energy-aware Resource Allocation by ...

Virtualization, Service Level Agreement 1826 Sabbir et al: Heuristic based Energy-aware Resource Allocation by Dynamic Consolidation of Virtual Machines 1

DOI: 10.37394/23204.2020.19.5 Ogechukwu M. Okonor, Mo ...

Intelligent Agent-based Technique For Virtual Machine Resource Allocation For Energy-Efficient Cloud Data centres Ogechukwu M Okonor, Mo Adda and Alex Gegov School of Computing University of Portsmouth United Kingdom ogechukwuokonor@portacuk, moadda@portacuk and alexgegov@portacuk Abstract: -In recent years, cloud computing technology has emerged as a ...

INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY ...

Abstract— Cloud resource management is momentous for efficient resource allocation and scheduling that requires for fulfilling customers' expectations But, it is difficult to predict an appropriate matching in a heterogeneous and dynamic cloud environment that leads to performance degradation and SLA violation Thus, resource management is a challenging task that may be compromised