

Optimizing **virtual machine** consolidation in virtualized datacenters using **resource** sensitivity

R Nasim, J Taheri, AJ Kassler - 2016 IEEE international ... , 2016 - [ieeexplore.ieee.org](#)


Optimizing **Virtual Machine** Consolidation in ... To address these challenges, we develop a mathematical model that allows us to optimize the **VM** migration **schedule** taking into account the **resource** sensitivity values of ... 1. Relative performance due to co-location with another **VM** ...

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Nosv: A lightweight nested-virtualization VMM for hosting high performance computing on cloud

J Ren, Y Qi, Y Dai, Y Xuan, Y Shi - Journal of Systems and Software, 2017 - Elsevier


... **Machine** Monitor (VMM) interceptions, virtualized I/O devices or cross **Virtual Machine (VM)** interference, etc ... cause the system working in an inefficient manner (eg, memory **access** across CPU ... hardware **resource** exclusively avoids the semantic gap between guest **VM** and nOSV ...

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A hybrid bio-inspired algorithm for scheduling and **resource** management in cloud environment

SG Domansal, RMR Guddeti... - IEEE transactions on ... , 2017 - [ieeexplore.ieee.org](#)


... 25] implemented a **resource** allocation policy for load balancing in **virtual machine** cluster ... VMs = {vm0,vm1,vm2,...,vmk} say Clusters, $C_z = \{c_1, c_2, c_3, \dots, c_z\}$ Cluster size = k/C_z 1: for all incoming requests $\{x_1, x_2, x_3, \dots, x_n\}$ 2: each cluster $C_z =$ least loaded **VM** 3: **Assign** each one ...

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Efficient one-copy MPI shared memory communication in virtual machines

W Huang, MJ Koop, DK Panda - 2008 IEEE international ... , 2008 - [ieeexplore.ieee.org](#)



... Xen **Virtual Machine** Monitor ... To address the high mapping cost, we propose an Inter- **VM** **Grant/Mapping** Cache (IGMC) ... Limiting **grant** cache entries may not be needed in Xen, because granting **access** to a page only consumes few bytes of bookkeeping information in the Xen ...

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Applying virtualisation to real-time embedded systems

R Kaiser - 1. GI/ITG KuVS Fachgespräch „Virtualisierung“, 2008 - academia.edu



... 1 2 3 1 Actual mid- and high- priority **VM** activity Low- priority **VM** activity **VM** **Schedule** TT TTTT ... the choice of precedence to be made individually for every time-driven **virtual machine**: Since every ... driven) can be assigned an individual priority level, every time-driven **VM** is able ...

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Global host allocation policy for **virtual machine** in cloud computing

M Kumar, AK Yadav, P Khatri, RS Raw - International Journal of ... , 2018 - Springer


... This task scheduling algorithm task is **schedule** on amount of bandwidth required by **VM** ... Each **virtual machine** **assign** with number of cloudlet as per scheduling policy (time shared policy ... cloudlet (cloudlet #0,... to cloudlet #n) are submitted to different **virtual machine** (vm #0,...to ...

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Epcaware: A game-based, energy, performance and cost efficient **resource** management technique for multi-**access** edge computing

M Zakarya, L Gillam, H Ali, I Rahman... - IEEE Transactions ... , 2020 - [ieeexplore.ieee.org](#)


... erational costs), but not necessarily, and on-demand **resource** allocation - **assign resources** based on ... We assume that every application module j runs in a **virtual machine (VM)** or container ... our formulation, we assume that each application module requires one **VM** or container ...

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Unikerneis: Library operating systems for the cloud

A Madhavapeddy, R Mortier, C Roisos, D Scott... - ACM SIGARCH ... , 2013 - [dl.acm.org](#)


... VMs communicate directly by having the local **VM** **grant** mem- ory page **access** rights to ... zero-copy sockets, this usually entails a second copy from the receiving **VM's** kernel into ... function terminates, whether normally via time- out or an unknown exception, the **grant** reference is ...

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QoS-aware I/O **schedule** for virtual machines in cloud computing environment

X Liu, W Tong, C Shen - 2013 Seventh International ... , 2013 - [ieeexplore.ieee.org](#)



... Front end Driver I/O Ring Event Channel **Grant** Tables NIC ... The architecture allows native **access** of I/O device and control **VM** specific device usage ... The **virtual machine** which is performing the CPU-intensive application need few I/O **resources**, they may have surplus credits ...

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Memory management in a virtual environment

A Kocharyan - 2019 - [tel.archives-ouvertes.fr](#)

... is to reclaim **unused** memory from under-loaded VMs and finally **grant** it to ... on virtualization, as it provides flexible re- source management means such as **virtual machine (VM)** checkpoint/restart ... Relying on a **VM** working-set estimation facility that we previously implemented, we ...

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