

# Static Load Balancing Algorithms In Cloud Computing

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### Static Load Balancing Algorithms In

#### Static Load Balancing Algorithms In Cloud Computing ...

Following are the static load balancing algorithms that are currently common in simple cloud computing environments 41 Round-Robin Load Balancing Algorithm -robin load balancing algorithm uses the round robin scheme for allocating jobs [5][14] It selects the first node randomly and then allocates jobs to all other nodes in a round

#### A New Static Load Balancing Algorithm in Cloud Computing

algorithms in clouds The load balancing in cloud computing is obtained in two ways: Dynamic Load Balancing Algorithm and Static Load Balancing Algorithm The Dynamic load balancing algorithm does not require prior knowledge of system resources, so that the decision of shifting of the load depends on the current state of system on the other

#### Performance Analysis of Static Load Balancing in Grid

Static load balancing algorithms are Round Robin algorithm, Randomized algorithm, Central Manager algorithm, and Threshold algorithm Dynamic load balancing algorithms are Central Queue algorithm, and Local Queue algorithm In this paper, we apply the static load balancing algorithms in the proposed system to get better performance Based on

#### Load Balancing in Distributed System using Genetic Algorithm

algorithms come into two basic categories - static and dynamic 21 Static load balancing algorithms In these types of algorithms, no dynamic load information is used, the assignments of the jobs to the processing hosts are made a priori using job information (eg arrival time, average

#### Scrutinizing the Capabilities of Load Balancing Algorithms

introduction of static load balancing algorithms, IV gives introduction of dynamic load balancing algorithms, in V we have given parameters we

selected to analyze algorithms VI gives the study of results with the help of table I and conclusion is given in VII VIII includes the references

### **SIMULATION OF LOAD BALANCING ALGORITHMS**

This article introduces a new load balancing algorithm, called diffusive load balancing, and compares its performance with three other load balancing algorithms: static, round robin, and shortest queue load balancing The comparison of load balancing algorithms is made in three simulated client-server

### **REVIEW OF HYBRID LOAD BALANCING ALGORITHMS IN ...**

C Hybrid load balancing algorithms These algorithms are achieved and are proposed to eliminate the drawbacks of dynamic and static load balancing methods, and they are being used to aggregate the benefits and merits of static and dynamic algorithms in order to design a new one (Milani & Navimipour,2016) In fact, this implies that the

### **Comparative Study Load Balance Algorithms for Map Reduce ...**

ancing a- Static Load Balancing Schemes b- Dynamic load balancing The main aim of this work is to study and compare existing Load Balance algorithms also to illustrate the features of Load Balance algorithms Keyword Static Load Balance, Map reduce,Dynamic Load Balance,static load balance,comparative study 1 INTRODUCTION In order to handle

### **Nature-inspired meta-heuristic algorithms for solving the ...**

of static load balancing algorithms is that the current system status is not taken into account in decision making, so it is not a proper approach in systems that load status cannot be foretold in

### **Various Dynamic Load Balancing Algorithms in Cloud ...**

21 Static load balancing algorithm In static load balancing algorithm it uses priori knowledge of the applications and statistical information about the system and distributes the load equivalently between servers 22 nodes of the system In this algorithm the load on a server is Dynamic load balancing algorithms

### **BIG-IP DNS: Load Balancing**

BIG-IP DNS uses load balancing algorithms, Using a static load balancing method, BIG-IP DNS selects a resource based on a pre-defined pattern Using a dynamic load balancing method, BIG-IP DNS selects a resource based on current performance metrics collected by the big3d agents running in each data center

### **Pros and Cons of Load Balancing Algorithms for Cloud ...**

A Static Load Balancing Algorithms Static scheduling algorithms assume all tasks arrive at the same instant of time and they are independent of the system resource"s states and their availability The basic scheduling policies like First-Come-First-Serve and Round

### **Performance Analysis of Load Balancing Algorithms in ...**

Apr 23, 2015 · Static load balancing algorithms are less reliable because no task/process will be transferred to another host in case a machine fails at run-time Dynamic load balancing algorithms are more reliable as processes can be transferred to other machine in case of failure occurs 4

### **A Survey of Load Balancing in Cloud Computing: Challenges ...**

Static Load balancing algorithms assign the tasks to the nodes based only on the ability of the node to process new requests The process is based solely on prior knowledge of the nodes' properties and capabilities These would include the node's processing power, memory and storage capacity, and

### **Measuring the Performance on Load Balancing Algorithms**

of static load balancing algorithms are least connection scheduling, Round Robin, weighted round robin algorithm and many more Dynamic load balancing capable of handling a great number of user's requests than static algorithms These algorithms stand on the current state of the system and are the best suited for switching environment

### **A Review of Load Balancing Strategies for Distributed Systems**

this paper, we reviewed the concept of load balancing and various mechanisms and finally compared static and dynamic load balancing The main purpose of this paper is to help in designing new algorithm in future by studying existing mechanisms for load balancing Keywords Distributed System, Load balancing, Processor thrashing 1

### **A Dynamic Load Balancing Algorithm in Computational Grid ...**

Static load balancing algorithms allocate the tasks of a parallel program to workstations Multicomputers with dynamic load balancing allocator reallocate resources at runtime based on task information, which may determine when and whose tasks can be migrated In this paper Dynamic Load Balancing Algorithm

### **Combined Load Balancing Algorithm in Distributed ...**

Load balancing algorithms can be classified as static and dynamic Static load balancing algorithms have good usability on homogeneous clusters while they execute tasks on all cores which have similar duration Performance of programs using these algorithms is reduced at the end of the runtime without possibility of rescheduling

### **Force-directed Geographical Load Balancing and Scheduling ...**

algorithms for load balancing of online applications in heterogeneous distributed datacenters There are some work that has focused on batch job load GLBS problem is formulated and a static solution based on the force-directed scheduling approach [23] is proposed This