

(54) Title of the invention : IoT-driven for Task Scheduling Algorithm with High Performance Using Reference Queues for Cloud Data Centers

<p>(51) International classification :G06F0009500000, H04W0004700000, H04L0041081300, H04L0009320000, H04L0067630000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr B Santhosh Kumar, Guru Nanak Institute of Technology</b> Address of Applicant :Professor &amp; Head, Department of Computer Science &amp; Engineering., Guru Nanak Institute of Technology, Hyderabad-501506 Hyderabad -----</p> <p><b>2)Dr AttadaVenkataramana, GMR Institute of Technology</b></p> <p><b>3)Dr M Sadish Sendil, Guru Nanak Institute of Technology</b></p> <p><b>4)Mrs.P.Anusha, Guru Nanak Institute of Technology</b></p> <p><b>5)Mr. Adepu Rajesh, Guru Nanak Institute of Technology</b></p> <p><b>6)Mrs.T.Sowmya, Guru Nanak Institute of Technology</b></p> <p><b>7)Dr J T Thirukrishna, Dayananda Sagar Academy of Technology and Management</b></p> <p><b>8)Mrs.V.Vidhya, Jai Shriram Engineering College</b></p> <p><b>9)Mrs.R.Ilakkiyavani, Jai Shriram Engineering College</b></p> <p><b>10)Mr.G.Manoj, Guru Nanak Institute of Technology</b></p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Dr B Santhosh Kumar, Guru Nanak Institute of Technology</b> Address of Applicant :Professor &amp; Head, Department of Computer Science &amp; Engineering., Guru Nanak Institute of Technology, Hyderabad-501506 Hyderabad -----</p> <p><b>2)Dr AttadaVenkataramana, GMR Institute of Technology</b> Address of Applicant :Professor &amp; Head, Department of Computer Science &amp; Engineering, GMR Institute of Technology, Rajam-532127, Andhra Pradesh Rajam -----</p> <p><b>3)Dr M Sadish Sendil, Guru Nanak Institute of Technology</b> Address of Applicant :Professor &amp; Head, Department of Emerging Technologies, Guru Nanak Institute of Technology, Hyderabad-501506 Hyderabad -----</p> <p><b>4)Mrs.P.Anusha, Guru Nanak Institute of Technology</b> Address of Applicant :Assistant Professor, Department of Computer Science &amp; Engineering, Guru Nanak Institute of Technology, Hyderabad -501506 Hyderabad -----</p> <p><b>5)Mr. Adepu Rajesh, Guru Nanak Institute of Technology</b> Address of Applicant :Associate Professor, Department of Computer Science &amp; Engineering, Guru Nanak Institute of Technology, Hyderabad-501506 Hyderabad -----</p> <p><b>6)Mrs.T.Sowmya, Guru Nanak Institute of Technology</b> Address of Applicant :Assistant Professor, Department of Computer Science &amp; Engineering, Guru Nanak Institute of Technology, Hyderabad-501506 Hyderabad -----</p> <p><b>7)Dr J T Thirukrishna, Dayananda Sagar Academy of Technology and Management</b> Address of Applicant :Associate professor, Department of Information Science &amp; Engineering, Dayananda Sagar Academy of Technology and Management, Bangalore Bangalore -----</p> <p><b>8)Mrs.V.Vidhya, Jai Shriram Engineering College</b> Address of Applicant :Assistant Professor, Department of Artificial intelligence and Data Science, Jai Shriram Engineering College, Tirupur-638660 Tirupur -----</p> <p><b>9)Mrs.R.Ilakkiyavani, Jai Shriram Engineering College</b> Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Jai Shriram Engineering College, Tirupur-638 660 Tirupur -----</p> <p><b>10)Mr.G.Manoj, Guru Nanak Institute of Technology</b> Address of Applicant :Assistant Professor, Department of Computer Science &amp; Engineering, Guru Nanak Institute of Technology, Hyderabad-501506 Hyderabad -----</p>
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(57) Abstract :

Secure provisioning service-automated registration of IoT devices requesting connection to platforms. The protected provisioning service checks and administers connection credentials to each IoT device, preventing illegal access. Provisioning rules match IoT devices and information. The rules registry's provisioning rules determine IoT device access credentials and rules. Matching each IoT device to one or more provisioning rules allows sophisticated rules-based systems to dynamically add, delete, or update rules. The classic network architecture has been enhanced with unique distributed topologies like the Cloud computing network as network technology continues to develop at a rapid pace. To provide numerous services to customers over the Internet, a cloud computing environment combines many processors and memories with high-speed networks and a wide range of application services. Many services, however, necessitate looking for appropriate service nodes, which might lead to an uneven distribution of tasks among the nodes. To deal with additional jobs, reduce the makespan and queue waiting time, and increase efficiency, the Reference Queue based Cloud Service Architecture (RQCSA) and the Fitness Service Queue Selection Mechanism (FSQSM) are presented. In addition, the workload can be spread more fairly to relieve stress on cluster administrators and boost overall system performance.

No. of Pages : 11 No. of Claims : 4