

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/inc>)

Patent Search

Invention Title	IoT-driven for Task Scheduling Algorithm with High Performance Using Reference Queues for Cloud Data Centers
Publication Number	07/2023
Publication Date	17/02/2023
Publication Type	INA
Application Number	202341008394
Application Filing Date	09/02/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06F0009500000, H04W0004700000, H04L0041081300, H04L0009320000, H04L0067630000

Inventor

Name	Address	Country	Nat
Dr B Santhosh Kumar, Guru Nanak Institute of Technology	Professor & Head, Department of Computer Science & Engineering., Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Dr AttadaVenkataramana, GMR Institute of Technology	Professor & Head, Department of Computer Science & Engineering, GMR Institute of Technology, Rajam-532127, Andhra Pradesh	India	Indi
Dr M Sadish Sendil, Guru Nanak Institute of Technology	Professor & Head, Department of Emerging Technologies, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Mrs.P.Anusha, Guru Nanak Institute of Technology	Assistant Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad -501506	India	Indi
Mr. Adepu Rajesh, Guru Nanak Institute of Technology	Associate Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Mrs.T.Sowmya, Guru Nanak Institute of Technology	Assistant Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Dr J T Thirukrishna, Dayananda Sagar Academy of Technology and Management	Associate professor, Department of Information Science & Engineering, Dayananda Sagar Academy of Technology and Management, Bangalore	India	Indi
Mrs.V.Vidhya, Jai Shriram Engineering College	Assistant Professor, Department of Artificial intelligence and Data Science, Jai Shriram Engineering College, Tirupur-638660	India	Indi
Mrs.R.Ilakkivavani, Jai Shriram Engineering College	Assistant Professor, Department of Computer Science and Engineering, Jai Shriram Engineering College, Tirupur-638 660	India	Indi
Mr.G.Manoj, Guru Nanak Institute of Technology	Assistant Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi

Applicant

Name	Address	Country	Nat
Dr B Santhosh Kumar, Guru Nanak Institute of Technology	Professor & Head, Department of Computer Science & Engineering., Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Dr AttadaVenkataramana, GMR Institute of Technology	Professor & Head, Department of Computer Science & Engineering, GMR Institute of Technology, Rajam-532127, Andhra Pradesh	India	Indi
Dr M Sadish Sendil, Guru Nanak Institute of Technology	Professor & Head, Department of Emerging Technologies, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Mrs.P.Anusha, Guru Nanak Institute of Technology	Assistant Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad -501506	India	Indi
Mr. Adepu Rajesh, Guru Nanak Institute of Technology	Associate Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Mrs.T.Sowmya, Guru Nanak Institute of Technology	Assistant Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi
Dr J T Thirukrishna, Dayananda Sagar Academy of Technology and Management	Associate professor, Department of Information Science & Engineering, Dayananda Sagar Academy of Technology and Management, Bangalore	India	Indi
Mrs.V.Vidhya, Jai Shriram Engineering College	Assistant Professor, Department of Artificial intelligence and Data Science, Jai Shriram Engineering College, Tirupur-638660	India	Indi
Mrs.R.lakkiyavani, Jai Shriram Engineering College	Assistant Professor, Department of Computer Science and Engineering, Jai Shriram Engineering College, Tirupur-638 660	India	Indi
Mr.G.Manoj, Guru Nanak Institute of Technology	Assistant Professor, Department of Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad-501506	India	Indi

Abstract:

Secure provisioning service-automated registration of IoT devices requesting connection to platforms. The protected provisioning service checks and administers connect credentials to each IoT device, preventing illegal access. Provisioning rules match IoT devices and information. The rules registry's provisioning rules determine IoT device 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 network architecture has been enhanced with unique distributed topologies like the Cloud computing network as network technology continues to develop at a rapid pace 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 Fair 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.

Complete Specification

Description:As an example of a first embodiment of the disclosure, a computer-implemented method is provided that includes the following steps: receiving a registration request from an IoT device; Credentials and Metadata are received from the IoT device; Authenticity of the credentials are confirmed; sending the information set together with a system call to a rules engine, asking it to look through a rules registry for any relevant rules that may be applied to the IoT device in question; searching the rules registry for a rule or group of rules that exactly matches the IoT device's metadata; processing the system call by searching the rules registry and generating the statement of a rule; generating a device ID and connection credentials for the IoT device based on an expression of the one or more rules; and sending the generated device ID and connection credentials to the IoT device.

A second embodiment of the present disclosure provides a computer system including a processor, an internet-of-things (IoT) device placed in communication with the processor, and a computer-readable storage media coupled to the processor, wherein the program instructions contained in the computer-readable storage media executes a computer-implemented method including the steps of receiving a registration request from the IoT device, receiving credentials and a set of metadata

A computer program product according to a third embodiment of the present disclosure includes: one or more computer-readable storage media having computer-readable program instructions stored on the one or more computer-readable storage media, said program instructions executes a computer-implemented method including the steps of: receiving a registration request from an internet-of-things (IoT) device; receiving credentials and a set of metadata from the IoT device; verifying the IoT device's credentials and metadata; and registering the IoT device by processing the system call by searching the rules registry and generating the statement of a rule; generating a device ID and connection credentials for the IoT device based on an expression of the one or more rules; and sending the generated device ID and connection credentials to the IoT device.

[View Application Status](#)



राष्ट्रीय मतदाता सेवा पोर्टल
NATIONAL VOTERS' SERVICES PORTAL

Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

