FACT SHEET
Interesting & Important 2013 IBM Cloud Patents

IBM is investing in cloud computing research, inventions and innovations that will enable the company to compete and lead in the competitive cloud computing market. The following list features noteworthy cloud computing patents issued to IBM inventors in 2013.

1. **U.S. Patent #8,595,353: Automated recommendations for cloud-computing options –** This patent describes a technique that alleviates cloud computing configuration confusion by automatically analyzing user needs and recommending customization options based on the most efficient use of resources.
2. **U.S. Patent #8,373,698: Holographic enterprise network –** This invention describes a virtual holographic data center environment that would enable clients to remotely visualize, monitor and manage servers, communications, environmental controls, security and other components within cloud computing and networking data centers.
3. **Patent #8,554,917: Performance isolation for storage clouds –** This invention compares a set of data pools associated with multiple cloud storage subsystems, as well as the data paths that connect the data pools to servers and ensures that the workload of one user is not negatively impacting other users. The invention also can help avoid over-provisioning of, and adding stress to, cloud system resources, which results in lower system utilization and higher cost.
4. **U.S. Patent #8,565,435: Efficient implementation of fully homomorphic encryption –** This patented invention could enable deep analysis of encrypted information —intentionally scrambled data — without surrendering confidentiality and is expected to help cloud computing clients make more informed business decisions, without compromising privacy and security.
5. **U.S. Patent #8,549,125**: **Environmentally sustainable computing in a distributed computer network –** This patent describes a method that will allow cloud computing service providers to offer customers the option of reducing their carbon footprint by opting for cloud services that consume less electricity.
6. **U.S. Patent #8,429,659: Scheduling jobs within a cloud computing environment** – This patented invention embodies a technique that objectively analyzes and prioritizes jobs within a cloud computing environment in order to maximize processing capacity and responsiveness for cloud users, as well as positive financial impacts to service providers.
7. **U.S. Patent #8,595,328: Self-updating node controller for an endpoint in a cloud computing environment** – This patent describes a technique that eliminates cloud computing bottlenecks and scalability issues by enabling individual nodes to autonomously and automatically control and update node resources and state (e.g., servers, virtual machines, storage devices, networking resources, software code, etc.).

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