

NEWSLETTER

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Cloud Computing Service Provider

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List of Cloud Computing Service Providers

Alibaba Cloud provides cloud computing IaaS, PaaS, DBaaS and SaaS, including services such as e-commerce, big data, Database, IoT, Object storage (OOS), Kubernetes and data customization which can be managed from Alibaba web page or using aliyun command line tool.

Microsoft Azure, formerly known as Windows Azure, is Microsoft's public cloud computing platform. The Azure platform aims to help businesses manage challenges and meet their organizational goals. It offers tools that support all industries -- including e-commerce, finance and a variety of Fortune 500 companies -- and is compatible with open source technologies. This provides users with the flexibility to use their preferred tools and technologies. In addition,

Google Cloud (also known as Google Cloud Platform or GCP) is a provider of computing resources for developing, deploying, and operating applications on the Web. Although its cloud infrastructure does serve as the host for applications such as Google Workplace (formerly G Suite, and before that Google Apps), GCP is mainly a service for building and maintaining original applications, which may then be published via the Web from its hyperscale data center facilities

IBM Cloud Computing is the global computing company that established one of the first PC computers. It provides its services for startups that have small development teams, alongside large enterprise businesses and organizations. In addition to public, private, and hybrid cloud delivery models, it positions these services within three umbrellas: SmartCloud Foundation, SmartCloud Services, and SmartCloud Solutions, in order to increase productivity and effectiveness

Red Hat, the Linux operating system company, pioneered the original open source business model and currently the leading software company in the business of assembling open source components for the Linux operating. Red Hat gives away open source software for free but charges a support fee to those customers who rely on Red Hat for maintenance, support, and installation. As revenue began to roll into Red Hat, a race began among startups to develop an open source offering for each proprietary software counterpart and then wrap a Red Hat-style service offering around it

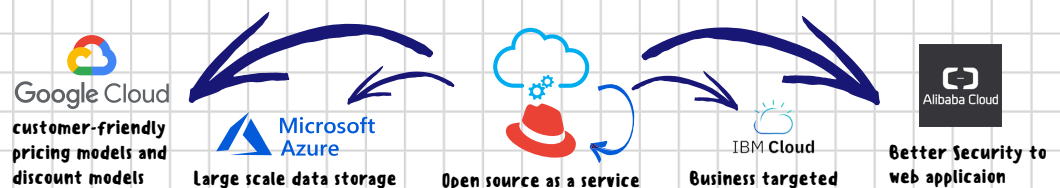
Comparison among the Cloud Computing Service Providers



	ALIBABA CLOUD	MICROSOFT AZURE	GOOGLE CLOUD PLATFORM	IBM CLOUD COMPUTING	REDHAT
INFRASTRUCTURE AS A SERVICES	ALIYUN	MICROSOFT PRIVATE CLOUD	GOOGLE COMPUTE ENGINE	SMART CLOUD ENTERPRISE	RED HAT CLOUD SUITE
PLATFORM AS A SERVICES	MAXCOMPUTE	AZURE APP SERVICES AND CLOUD SERVICES	GOOGLE APP ENGINES	IBM Bluemix	REDHAT OPENSIFT
SOFTWARE AS A SERVICES	E-COMMERCE	MICROSOFT OFFICE 365	GOOGLE WORKPLACE	IBM CLOUD™ SOFTWARE	ENTERPRISE SAAS AND CONSUMER SAAS

In terms of **Strength**, Azure Microsoft has large-scale data storage and high-volume, critical workloads with their Queue Storage and Data Lake Store. Microsoft Azure excels in disaster recovery and scheduling via the Azure Logic App, simplifying the jobs process with scheduled or rules-based execution, most organizations are using it. Google Cloud Platform offers basic storage and database support. More customer-friendly pricing models and discount models are available in Google Cloud Platform. Redhat is well know for selling open source-as-a service. Red Hat performance is good when process big transaction and traffic. In addition to that it is easy to schedule maintenance jobs and send alerts. Alibaba provides extensive features to ensure data security Alibaba Cloud services provide customers with API access points with HTTPS encryption enabled, allowing customers to use access keys to call the Alibaba Cloud Service API securely. With Anti-DDoS technology, Alibaba cloud provides better security to your web applications. Alibaba Cloud's advanced big-data backed technology offers faster access and operations to cloud data. IBM has private, public and hybrid cloud solutions. There's the possibility to choose from object, block and file storage services. Moreover, you can use the mass data migration tool as well as a cloud backup and recovery solution that supports 3-party integration, scaling and encryption.

In terms of **Weakness**, Alibaba's onboarding capabilities typically requires additional costs to establish a leased line to speed up the migration, which is something that some competitors do not charge for. In addition, Alibaba does not provide its own offboarding facilities, instead relying on the replacement cloud provider to provide onboarding capabilities. Need better user-friendly GUI and when use GUI to install software, it is resource intensive. Besides that, based on virtual machine Google Cloud Platform is falling behind compared to Microsoft Azure. Next, for the drawbacks of Microsoft Azure is its security where it is lacking in reliability and has weak documentation. If you are looking for a quick and short-term solution, IBM Cloud with a bare metal server is not the best solution for you as the configuration of this server is usually a rather time-consuming process. Red Hat Compatibility with MS-Windows is poor, and compatibility with MAC OS X is worse.



REFLECTION



Cloud computing services keep on improving and updating from time to time with the improvement of network technology. We believe that cloud computing services can provide more functions other than compute, database, storage and social networking in future generations. During the lockdown situation in this Covid-19 pandemic, cloud computing services enable us to continue our working and learning process at home. It helps to maintain our normal lifestyle and society work with the access of the Internet. We expect that cloud computing fundamentals can make development with other technology such as Artificial Intelligence to create a new network hybrid system in the future. Hence, more job opportunities will be discovered with the development of cloud computing. Last but not least, we appreciate the contribution and effort of people who develop new technology and lead us to a new generation.

"I don't need a hard disk in my computer if I can get to the server faster... carrying around these non-connected computers is byzantine by comparison"
- Steve Jobs