

	Amazon AWS	Google App Engine	Microsoft Azure	IBM Smart Business Dev.
focus	To make the organizations benefit from Amazon's experience and investment to implement the transactions in the large-scale and distributed environment	Run your applications on a fully-managed Platform-as-a-Service (PaaS) using built-in services that make you more productive	Public and Hybrid options	Hybrid
Infrastructure and virtualization architecture	>> Web Application Hosting >> Content and Media Serving >> Batch Processing >> Fault tolerance and High Availability	Redundancy Global Network	Software Solutions	Provision to set up different types of clouds
Platforms	>> virtual IT infrastructure >> Software development	PAAS, SAAS	IAAS, SAAS	IAAS
Persistent Storage	>> Offered in the form of storage volumes which can be mounted into EC2 instance as a raw block storage device. It basically looks like an unformatted hard disk. After the volume has been mounted for initially, it can be formatted with any file system.	MySQL and Object storage using JSON	NoSQL tools and MySQL servers	Provisioned separately from any particular instance, and can be attached to running under the same account in the same data center.
Monitoring	"Amazon CloudWatch" track metrics, collect and monitor log files and set alarms	System Status Dashboard	Azure Management Portal	IBM smart cloud monitoring
Load Balancing	Elastic load balancing distributed incoming client applications across multiple instances to reduce the load on the single instance or the machine	Scale your application Support heavy traffic Detect unhealthy virtual machines Balance loads across regions Route traffic to the closest virtual machine Support content-based routing	DNS Level: Load balancing for traffic to different cloud services located in different data centers Network Level: Load balancing of incoming Internet traffic to different virtual machines of a cloud service	IBM smart cloud monitoring tool monitors the health and performance of a private cloud infrastructure.
Message Queues	Amazon Simple Queue Service(SQS)	Push Queues in java	Azure Queues and Service Bus Queues.	SoftLayer message queue helps.
Development Tools	AWS management console	App Development App Management	Azure SDKs, Azure Powershell and command-	IBM Domino Designer, Connector for SAP solutions, Expeditor,

		Aws toolkit for eclipse	Datastore Memcache	line tools for management and deployment.	Workflow, Enterprise Integrator for Domino
Integration with other services		AWS storage gateway	Google cloud services and APIs, Memcache	CRM, Ariba, sanebox, openclove, teampoint	
Web APIs		Yes	Yes	Yes	Yes
Programming Framework		Java PHP Python Ruby .net	Python, Java, PHP, Node.js, C++, Scala, Hadoop, MongoDB, Redis	Java PHP Python Ruby .net	Java Node
Pricing	Machine CPU	\$0.14 / hour	\$0.10 / hour	\$0.12 / hour	\$0.10 / hour
	Storage	\$0.25 / GB / month	\$0.15 / GB / month	\$0.15 / GB / month	\$0.15 / GB / month
	I/O	\$0.01 / 1000 requests	\$0.12 / GB / month	\$0.01 / 1000 requests	\$0.01 / 1000 requests
	Bandwidth	\$0.10 / GB	\$0.10 / GB	\$0.10 / GB	\$0.10 / GB

Cloud Computing Platforms Comparison