

	Amazon AWS	Google App Engine	Microsoft Azure	IBM Smart Business Dev.
Focus	Public cloud	Public cloud	Public cloud, easy application development	Hybrid cloud and Private cloud
Infrastructure and virtualization architecture	XEN Para virtualization architecture-provides scalable virtual private servers	Uses Google computing engine-manages high traffic, available with limited range	Hyper-V virtualization on Azure Compute infrastructure	IBM Cloud Computing Reference Architecture-low cost and easy integration
Platforms	IAAS	PAAS	IAAS PAAS	IAAS
Persistent Storage	Amazon Elastic Block Store (Amazon EBS) provides persistent block level storage volumes for use with Amazon EC2 instances in the AWS Cloud	Google Cloud SQL is a MySQL database that lives in Google's cloud.	Azure drives provide the persistent storage. Without persistent storage, we can also use Azure's in-memory caching	Persistent storage is provisioned separately from any particular instance, and can be attached to any instance running under the same account in the same datacenter. It can be likened to an external USB drive in the physical world.
Monitoring	Amazon cloud watch	Google cloud Monitoring	You can monitor key performance metrics for your cloud services in the Azure Management Portal	IBM smart cloud monitor
Load Balancing	Elastic Load balancing automatically	Google compute Engine offers server side load balancing	Two levels of load balancing-DNS level and Network level	Random hydro dynamic balancing
Message Queues	Amazon Simple Queue Service(SQS) provides a hosted message queue for web applications	Uses pull, push and task queue services	Uses Azure Bus queue	Soft layer message queue and IBM WebSphere message queue
Development Tools	AWS Management Console, AWS Toolkit for Eclipse, AWS Toolkit for Microsoft	NetBeans, Eclipse, IntelliJ, Maven, Git, Jenkins, PyCharm Google Web Toolkit	.NET SDK and Azure Power Shell SDK	IBM Bluemix, IBM Domino Designer, Connector for SAP solutions, Integrator for Domino-almost all tools supported
Integration with other services	Easily can be integrated with other services	Highly supported for instance, Maps API v2, Android API	Integration with Microsoft BizTalk server and can also integrate with SaaS applications	CRM, open clove,Sanebox, Ariba,intelecom etc..
Web APIs	Yes	Yes	Yes	Yes

Programming Framework		.NET Java PHP Python	Go Java PHP Python	.NET Java PHP Python Ruby	Java Node Ruby
Pricing	Machine CPU	\$0.085/hour to \$3.16/hour	\$0.10/hour CPU usage	\$0.12/hour CPU usage	\$0.12/hour CPU usage
	Storage	Capacity:5GB to 1TB, \$0.10/GB/month	\$0.15/GB/month	\$0.15/GB/month	\$0.15/GB Monthly
	I/O	For 1 million I/O requests, \$0.10	\$0.10/hour	\$0.10/hour	For 1 million I/O requests, \$0.10
	Bandwidth	15GB bandwidth	incoming \$0.10/GB, outgoing \$0.12/GB	\$0.10/GB incoming, \$0.15/GB outgoing	Bandwidth of 15GB

Cloud Computing Platforms Comparison

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