Cloud Computing Platforms Comparison

	Amazon AWS	Google App Engine	Microsoft Azure	IBM Smart Business Dev.
focus	General Public Sector	Rapid industry developments	Individual Public with easy application access.	Hybrid, fast &easy deployment or integration for startups.
Infrastructure and virtualization architecture	EC2- Elastic Compute Cloud upon instantiate.	Specifications provided by Google	Servers at backend runs in windows which can be customized, while Azure in frontend runs in .Net	Virtual Machines Instances
Platforms	Infrastructure as a Service(IaaS); Unix & Windows Servers	Platform as a Service(PaaS)	Infrastructure as a Service(IaaS) & Platform as a Service(PaaS); Microsoft Server 2008	Infrastructure as a Service(IaaS); Red Hat, SUSE & Windows
Persistent Storage	EBS(Elastic Block Storage), S3(Simple Storage Service)	Bulk Storage- Cloud MySQL, NoSQL	Standard Application Storage	Bulk Storage- independent of service
Monitoring	Available(Cloud watch)	Available(Google Cloud monitoring)	Available(Azure Ops)	Available(IBM Smart Cloud)
Load Balancing	Supports using Elastic Load Balance	Supports using Engine Load Balancing	Supports using Azure load balancer	Supports both dynamic & elastic load balancing
Message Queues	SOS, SMS	Push Queues	Azure Data Queues	IBM Web Sphere Queues
Development Tools	Amazon management console, Command line APIs, SDKs for Java, PHP, Python.	Java Plugins for Eclipse & Python SDKs, App Engine Platforms	Visual studio , .NET SDK & Azure SDKs	Almost all SDKs for all platforms. Eg. Java plugins for Eclipse.

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Integration with other services	All the services are designed to work together; Eg: Dynamo DB	Highly supported with the public API's like Maps, GPS, and Android Services etc. Almost everything for APP Engine.	Supported using .Net Service Eg: Azure CDN	Highly supported with most of the services available within the Cloud itself.
Web APIs	Supports	Supports	Supports	Supports
Programming Framework	Customizable Linux based Amazon Machine Image(AMI)	Python, java Beans, PHP, Impala	ASP .NET, Java, Ruby	Most of the Programming languages like Java, PHP, Node JS, Ruby etc.
Pricing	**Machine CPU**	$0.12/hr.	$0.10/hr.	$0.11/hr.	$0.10/hr.

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	Storage	0.25 GB/month	0.15 GB/month	0.15 GB/month	0.15 GB/month
	I/O	$0.1/1000 service Requests	$0.1/1000 service Requests	$0.1/1000 service Requests	$0.1/1000 service Requests
	Bandwidth	$0.10 / GB for Avg IN & OUT	$0.10 / GB for Avg IN & OUT	$0.10 / GB for Avg IN & OUT	$0.10 / GB for Avg IN & OUT

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