

# **CLOUD COMPUTING SERVICES COMPARSION**

**Submitted By**

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## **CLOUD COMPUTING SERVICES COMPARSION**

	<b>Amazon AWS</b>	<b>Google App Engine</b>	<b>Microsoft Azure</b>	<b>IBM Smart Business Dev.</b>
<b>Focus</b>	Public sector and Educational Institutions	Developing and hosting applications in data center.	Public cloud	Hybrid Cloud and Private Cloud
<b>Infrastructure and virtualization architecture</b>	Flexibility to launch application regardless of use case or industry	It can run only limited range of applications Even though more infrastructure is provided compared to all.	Deploy a full range of open and community driven OS and software solutions.	Flexibility to have public private or hybrid clouds depending on business needs.
<b>Platforms</b>	IAAS	PAAS	IAAS, PAAS	IAAS
<b>Persistent Storage</b>	Amazon Elastic Block store (EBS) allows user to create storage volumes attachment to Amazon EC2 instances.	MySQL using cloud SQL, object storage using cloud storage.	Azure storage	It will be separated from instances and can be attached to the same data center.
<b>Monitoring</b>	Amazon cloud watch will be used as monitoring Service.	Google cloud will be used as monitoring service.	Their two levels of load balancing <ol style="list-style-type: none"> <li>1. Azure Ops.</li> <li>2. Load Balancer</li> </ol>	IBM smart cloud will be used as monitoring Service.

<b>Load Balancing</b>		ELB (Elastic Load Balancing)	It uses scale out capabilities in Google compute engine.	Azure load balancer.	Elastic load Balancing.
<b>Message Queues</b>		Simple Queue which is fast reliable service.	Push Queues which are written in java.	Azure Data Queues.	Web sphere and Soft Layer Message Queues.
<b>Development Tools</b>		Primary SDKs	Eclipse, Maven.	Azure PowerShell.	IBM Domino Designer.
<b>Integration with other services</b>		Dynamo DB	There are lot of API'S like maps, contacts , calendar etc.	There are large number of .Net Services Available.	Sandbox, CRM, Open Clove
<b>Web APIs</b>		Yes	Yes	Yes	Yes
<b>Programming Framework</b>		.Net, Java, PHP	Python, Java, JRuby, Scala , BeanShell	.Net, Java , Ruby, Python	Java, Ruby
<b>Pricing</b>	<b>Machine CPU</b>	\$0.14 / hour	\$0.10 / hour	\$0.12 / hour	\$0.10 / hour
	<b>Storage</b>	\$0.25 / GB / month	\$0.15 / GB / month	\$0.15 / GB / month	\$0.15 / GB / month
	<b>I/O</b>	\$0.01 / 1000 requests	\$0.12 / GB / month	\$0.01 / 1000 requests	\$0.01 / 1000 requests
	<b>Bandwidth</b>	\$0.10 / GB	\$0.10 / GB	\$0.10 / GB	\$0.10 / GB