Cloud Computing Platforms Comparison

		Amazon AWS	Google AppEngine	Microsoft Azure	IBM Smart Business Dev.
focus		Infrastructure as a	Platform as a	Infrastructure as a Service and	Infrastructure as a Service
		Service	Service	Platform as a Service	
Infrastructure and virtualization architecture		Amazon EC2 - Elastic Compute Cloud (32 and 64 bit)	Google Specified Architecture.	Microsoft Azure virtual machines with windows server for backend servers. Hyper-V Virtualization.	virtual machine instances (32 and 64 bit)
		XEN Virtualization			
Platforms		Different flavors of Windows and Linux operating systems and different versions	Not supported as it is a PaaS	Microsoft Server operating system	Redhat Linux, SUSE Linux and Windows operating systems.
Persistent Storage		Amazon S3, RDS and SimpleDB	App Engine Datastore	Azure Import/Export, Azure File Service, Azure SQL Database, Tables and Blobs	IBM smart business storage cloud with Hadoop based storage and Nirvanix
Monitoring		Amazon Cloud Watch	Google Cloud Monitoring	Azure Management Portal	IBM Smart Cloud Monitoring
Load Balancing		Elastic Load Balancing	Google Compute Engine Load Balancing	Azure Traffic Manager Azure Internal Load Balancing	Not Available
Message Queues		Simple Queue Service, Simple Message Service	PUSH Queues PULL Queues	Azure DataQueues	Not Available
Development Tools		AWS Management Console, AWS Toolkit for Eclipse, AWS Toolkit for Microsoft Visual Studio	Google App Engine SDKs for Java, PHP, Python and Go. Plugin for Eclipse.	Microsoft Azure SDKs for Java, .NET, Node.js, PHP, Python, Ruby, Mobile and Media. Command Line Tools – Windows Power Shell, Azure command-line interface and AzCopy Command-Line Tool for Azure Storage Migration Tools: Virtual Machine Assessment Tools Azure Websites Migration Assistant	Plugin for Eclipse
Integration with other services		Integration is allowed among AWS services.	Google APIs, Task Queue REST APIs.	Only .NET services including live services	Not Available
Web APIs		Supported	Supported	Supported	Supported
Programming Framework		.NET, Java, PHP, Python and Ruby	Go, Java, PHP and Python	.NET, Java, Node.js, PHP, Python and Ruby	Java, Node.js and Ruby
Pricing	Machine CPU	\$ 0.14/Hour	\$ 0.1/Hour	\$ 0.12/Hour	\$ 0.1/Hour
	Storage	\$ 0.25/GB (per Month)	\$ 0.18/GB(per Month)	\$ 0.15/GB(per Month)	\$ 0.15/GB(per Month)
	I/O	\$0.01/1000 requests	\$0.02/1000 requests	\$0.02/1000 requests	\$0.01/1000 requests

	Bandwidth	\$0.10/GB	\$0.10/GB	\$0.10/GB	\$0.10/GB