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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngin | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Online services is provided for client side applications | platform | platform | Innovate & realize the benefits of cloud fast |
| Infrastructure and virtualization architecture | | Scalable, High reliable, low cost infrastructure . | Manages high traffic infrastructure | Servers at back end runs in virtual machines on windows Azure while front end is in .net servers can be customized according to your specifications. | Open cloud infrastructure |
| Platforms | | Linux windows | Not available | Linux Windows | Linux Windows |
| Persistent Storage | | 30GB of Elastic Block Storage | GDisk Bulk storage | Standard application storage | Virtual Disk Drives |
| Monitoring | | Amazon Cloud Watch | Web based administration console | MP - Management pack | IBM - Tivoli |
| Load Balancing | | 750 hours of Elastic Load Balancing(ELB) | Google compute engine | Done by two type of load balancing- DNS level, network level. | Randomized hydrodynamic load balancing |
| Message Queues | | Amazon Simple Queue Service provides hosted message queues | With the Task Queue API, applications can perform work outside of a user request, initiated by a user request. | Azure Queues and Service Bus queues | IBM Web sphere message queues |
| Development Tools | | Eclipse, Visual Studio | Administration console, appstats | Microsoft Visual studio | Rational software solutions, Web 2.0 solution tools |
| Integration with other services | | Simple DB, S3, SQS, Cloudfront | GData, GAE Data store, Social graph API, google accounts | Cloud SQL, URL fetch, Memchache, Cloud storage, Email XMPP, data storage | Filesystem, Redis, Memcache, RabbitMQ |
| Web APIs | | A2S, ECS | XMPP, Blobstore, Files, memcache | ASP.NET Web API | Cast Iron Web Services |
| Programming Framework | | .Net, Java, PHP, Python, Rudy | Python, Java, PHP, Go | Microsoft .NET | Java, Node, Rudy |
| Pricing | Machine CPU | $0.14 to $0.154 per hour | $0.10 per hour | $0.12 per hour | $0.10 per hour |
| Storage | $0.25 to $0.275 per GB per month | $0.15 per GB per month | $0.15 per GB per month | $0.15 per GB per month |
| I/O | $0.10 per 1 million IO requests | $0.10 per hour | $0.10 per 1 million IO requests | $0.10 per 1 million IO requests |
| Bandwidth | $0.10 per GB inbound data transfer, $0.17 per GB outbound data transfer | $0.10 per GB for incoming traffic, $0.12 per GB for outgoing traffic | $0.10 per GB for incoming traffic, $0.12 per GB for outgoing traffic | $0.10 per GB for incoming traffic, $0.12 per GB for outgoing traffic |

Cloud Computing Platforms Comparison