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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngin | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Online services for client side application | Build & run application on google infrastructure | Spin up new windows server & linux virtual machines | Innovate & realize the benefits of cloud fast |
| Infrastructure and virtualization architecture | | Highly reliable, scalable, low cost infrastructure | Manages high traffic infrastructure | Hyper-V for virtualization | Open cloud infrastructure |
| Platforms | | Infrastructure as a Service | Platform as a service | Infrastructure as a Service and Platform as a service | Infrastructure as a Service |
| Persistent Storage | | 30GB of Elastic Block Storage | MYSQL Database using CloudSQL | SSD Backed Storage | Virtual Disk Drives |
| Monitoring | | Amazon Cloud Watch | Google cloud monitoring APIs | Azure management portal, Azure diagnostics, Azure service management REST API, Azure SQL Database dynamic management views | Visibility into cloud infrastructure, Policy driven analytics, What-if capacity analysis, Monitoring of heterogeneous environments |
| Load Balancing | | 750 hours of Elastic Load Balancing(ELB) | Automatic Load Balancing | Azure Internal Load Balancing(ILB) | Randomized hydrodynamic load balancing |
| Message Queues | | Amazon Simple Queue Service provides hosted message queues | Push Queues and Pull Queues | 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 | | Django  Drupal | Django  Wsgi | Drupal  Symphony | Twisted-a pure python framework |
| 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