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|  | | Amazon AWS | Google AppEngine | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Public Sector is the Key area od Focus and it much emphasized, online services client-side | Administration is not required is the key area and rapid development, Platform and Infrastructure | [Disaster Recovery and High Availability](http://blogs.technet.com/b/msuspartner/archive/2014/10/14/microsoft-azure-partner-community-focus-on-disaster-recovery-and-high-availability-building-resilient-cloud-applications.aspx)and Universal Acceptance, Platform and Infrastructure | Private and hybrid cloud, Availability to government clients for developments |
| Infrastructure and virtualization architecture | | EC2: Elastic compute cloud which is flexible, reliable and scalable, AMIs or upload your XEN virtual machine images. | Search Engine and Infrastructure is with High traffic and Google Provides Specification | Visualization is Hyper-v, Virtual Machines on backend servers and front end is .net servers with accessibility level being high. | public, private, open or hybrid clouds along with a level of environment which is safe and secure at different levels. |
| Platforms | | IAAS ( Infra structure as a service) | PAAS (platform as a service ). | IAAS and PAAS | IAAS ( Infra structure as a service) |
| Persistent Storage | | Offers persistent block level storage volumes for use with EC2 instances | MySQL using cloud SQL | Azure SQL database in virtual machines, SSD backed storage | Virtual disk drives |
| Monitoring | | Cloud watch | App Engin System Status Dashboard.  Monitoring AP Interface | MP – Management Pack  Azure management portal makes the monitoring done. It can be set to minimal, Each role on service has verbose | IBM Smart Cloud Monitoring - Performance , frequency and architecture and infrastructure |
| Load Balancing | | Elastic Load Balancing - ELB | Google Compute Engine | Their two levels of load balancing DNS level which uses round robin, manager methods of the traffic and Balance of Load with Azure | MapReduce and virtualization. Hadoop- Load Balancing |
| Message Queues | | Amazon simple Queue Service | Push queues, Task queues and pull queues | Azure queues and service Bus queues | IBM Web sphere queues, SoftLayer message queues |
| Development Tools | | Visual studio, eclipse. PHP, Rails & Python | PyCharm, Eclipse for Plug-ins, Python Development Kit appstats | Visual studio, Management tools Azure SDKs. | Eclipse- Java Plug-ins, Web 2.0 solution tools, IBM Enterprise Integrator for Domino Workflow |
| Integration with other services | | DynamoDB, cloudfront, Designed Like Pieces on Chessboard | Google cloud services and APIs – Contacts and Calendars other main features | Cloud storage, Cloud SQL, Microsoft’s BizTalk service and also other large services with .NET | Memcache, teampoint, Sandbox, CRM |
| Web APIs | | Yes(ECS, A2S) | Yes(memcache, XMPP) | Yes(ASP.NET) | Yes(Cast iron) |
| Programming Framework | | Java  PHP  Django, .NET, Ruby | Wsgi  Python | Java  Drupal  PHP  Python, .NET, Ruby Nails | python  Java  Node  Ruby |
| Pricing | Machine CPU | location. Determines Pricing  $0.100 /GHz/hr | $0.100 /GHz/hr | $0.150/GHz/hr | $0.10/GHz/Hr |
| Storage | $0.25 -0.275 per GB / month | $0.15 per GB / month | $0.15 per GB / month | $0.15 per GB / month |
| I/O | $0.01 / 1000 Write operations and $0.001 for 1000 Read operations | $0.01 / 1000 operations for write and $0.001 for 1000 operations for Read | $0.01 / 1000 operations for Write and $0.001 for 1000 Read operations | $0.01 / 1000 operations for Write and $0.001 for 1000 Read operations for Read |
| Bandwidth | $0.10 per GB- incoming  $0.15 per GB - outgoing | $0.10 per GB incoming  $0.152 per GB - outgoing | $0.10 per GB – incoming traffic  $0.15 per GB - outgoing | $0.10 per GB - Incoming  $0.15 per GB - outgoing |