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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngin | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Rapid Delivery | PaaS, build and run on Google Infrastructure | Pay-as-you-go approach | To discover, innovate features of cloud |
| Infrastructure and virtualization architecture | | Uses AWS Connect and XEN Para-Virtualization Architecture. | Uses search engine infrastructure with redundancy, global network and products | 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 |
| Platforms | | IaaS | PaaS | IaaS, PaaS | IaaS |
| Persistent Storage | | EC2 | MySQL using cloud SQL | Azure storage | MySQL |
| Monitoring | | Amazon cloud watch | Google cloud monitoring API | Batch Power Shell | IBM smart cloud monitoring tool |
| Load Balancing | | Elastic Load Balancing | Google Compute Engine | Azure load balancer | Elastic Load Balancing |
| Message Queues | | Simple Queue Service | Push Queues(Inside)  Pull (outside) | Azure Data Queues | Web sphere and Soft Layer Message Queues |
| Development Tools | | AWS Toolkit | Eclipse, IntellIJ, Git | Azure Command Line Interface | IBM Watson |
| Integration with other services | | DynamoDB | GAE Database, GData | .NET web API, ASP .NET API | REST Java API. |
| Web APIs | | Yes | Yes | Yes | Yes |
| Programming Framework | | PHP  Python  Ruby | Python | .NET  Java  Node  Ruby | Java  Node  Ruby |
| Pricing | Machine CPU | $0.14 / hour | $0.10 / hour | $0.12 / hour | $0.12 / hour |
| Storage | $0.25 / GB / month | $0.15 / GB / month | $0.15 / GB / month | $0.15 / GB / month |
| I/O | $0.01 / 1000 requests | $0.12 / GB / month | $0.01 / 1000 requests | $0.01 / 1000 requests |
| Bandwidth | $0.10 / GB | $0.10 / GB | $0.10 / GB | $0.10 / GB |

**Cloud Computing Platforms Comparison (SARIKA BOMMAVARAM (08))**