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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngin | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Public sector | Public cloud | Public cloud | Hybrid and Private cloud |
| Infrastructure and virtualization architecture | | Elastic compute cloud to run programs | Servers for easily deployable on google platform | For computation and networking | Since it is a private cloud, more security is provided |
| Platforms | | IAAS | PAAS | IAAS, PAAS | IAAS |
| Persistent Storage | | Amazon Elastic Block Store | Google Cloud Storage | Azure SQL database | IBM websphere |
| Monitoring | | Amazon Cloud watch | Developers console | Azure management portal | IBM Tivoli |
| Load Balancing | | Elastic load balancing to distribute traffic across multiple instances | Google compute engine | DNS level round robin load balancing, network level azure load balancing | Elastic load balancing which acts as a router |
| Message Queues | | Simple Queue Services | Task queue, Push queue and Pull Queue | Service Bus Queue and Data Queues | Websphere message queues |
| Development Tools | | Eclipse plugins, web console, PHP, Ruby on Rails | Git, Jenkins, Maven, Eclipse | Visual studio, Azure powershell, .net framework | IBM Domino designer, eclipse plugins |
| Integration with other services | | Number of other services with Amazon Web services | Google maps, Finance, weather | Live services, BizTalk services | Sandbox, teampoint |
| Web APIs | | Available | Available | Available | Available |
| Programming Framework | | Java, Python, PHP, Ruby on Rails, .net | Python, Javascript | .Net, PHP, Ruby on Rails | Node.js, Java |
| Pricing | Machine CPU | $0.14/hr | $0.10/hr | $0.12/hr | $0.10/hr |
| Storage | $0.25/GB/month | $0.15/GB/month | $0.15/GB/month | $0.15/GB/month |
| I/O | $0.01/1000 write op  $0.001/1000 read op | $0.01/1000 write op  $0.001/1000 read op | $0.01/1000 write op  $0.001/1000 read op | $0.01/1000 write op  $0.001/1000 read op |
| Bandwidth | $0.10/GB incoming  $0.15/GB outgoing | $0.10/GB incoming  $0.12/GB outgoing | $0.10/GB incoming  $0.15/GB outgoing | $0.10/GB incoming  $0.15/GB outgoing |

Cloud Computing Platforms Comparison