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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngine | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Infrastructure | Platform | Infrastructure | Infrastructure |
| Infrastructure and virtualization architecture | | Elastic Compute Cloud can instantiate 32 or 64 bits Amazon machine images or upload XEN virtual machine images. | Provided by Google | Frontend is in .net.Back endservers runs in virtual machine. | Virtual Machine Instances-Multiple sizes for 32 & 64 bit architecture |
| Platforms | | Linux & Windows | - | Microsoft server 2008 | Redhat & Windows |
| Persistent Storage | | Simple Storage Service, Elastic Block Storage | Gdisk-bulk storage | Standard application storage | Bulk storage |
| Monitoring | | CloudWatch | App Engine monitoring agent | Management Pack | IBM Tivoli |
| Load Balancing | | Elastic Load Balancing | Available | Available | Available |
| Message Queues | | Simple Queue Service, Simple Message Service | Push queue | Azure DataQueues | IBM websphere message queue |
| Development Tools | | Web Console, Command Line API’S,Eclipse plugins,,SDK | Java plugin, Python software development kit | Visual Studio, SDK | Java plugin |
| Integration with other services | | All are services work together | API’s available like maps, calendar etc | Large number of .NET services including live services | Rest Java API |
| Web APIs | | Yes | Yes | Yes | Yes |
| Programming Framework | | Customizable Linux based Amazon machine Image(AMI) | Python | PHP, Python, Ruby | Java, node, ruby |
| Pricing | Machine CPU | - | 1 CPU – 0.044$/hour | 1-0.159/hour | - |
| Storage | EB,S3-1GB | 1 GB -0.18$/month | 400GB-9.6$ | - |
| I/O | 1 GB data transfer | Incoming free outgoing 0.12$ | 1-imoprt,Export-80$ | - |
| Bandwidth | 15 GB | 1GB 0.12$/month | 12GB – 0.84 $ | - |

Cloud Computing Platforms Comparison