|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngine | Microsoft Azure | IBM Smart Business Dev. |
| focus | | It provides different technical services, infrastructure platform with benefits of cloud in developing, managing and operating your applications | It’s a platform as a Service that lets you build applications. Its easy to build, maintain, scale. | This is a service which requires you to pay for the services you have used. | It helps you to innovate and realize benefits of cloud fast |
| Infrastructure and virtualization architecture | | Virtualization Platform: Xen Virualisation  Multiple Global locations for Deployment, Low Latency Cloud Delivery, Reliable, Low-Latency Domain Name Resolution | Virtualization Platform: NA  Doesn’t provide infrastructure as a service | Virtualization Platform: Modified Hyper-V Hypervisor  Provide infrastructure as a service | Virtualization Platform: NA |
| Platforms | | Operating Systems: Windows Server, Linux, Debain etc  Software: IBM DB2, IBM Informix Dyanmic Server, My SQL Enerprise | Runtime: JRE. Python Runtime Environment  Software: Hadoop, AppServers | Operating Systems: Windows 7, Windows server 2008, System center 2012  Software: Hadoop | NA |
| Persistent Storage | | Yes, Amazon EBS | yes | yes | NA |
| Monitoring | | Yes,AWS Cloud Watch | No | No | NA |
| Load Balancing | | Elastic Load Balancing, Amazon VPC uses it for internal and external storage | Not available | yes | NA |
| Message Queues | | Supports Message Queues | No | Supports Message Queues | No |
| Development Tools | | IDE Integration: Visual Studio, Eclipse  SDK’s: Andriod , JAVA, IOS , .NET, Python, Node.js | IDE support, Google Web Tool kit, Private Gadgets | Window Azure SDK, Window Azure Training kit for Developers, Mobile SDK | NA |
| Integration with other services | | Multiple Network Connectivity choices, Data Transfer intocloud for disaster Recovery, backup and Migration | Big Query, Hadoop, cloud SQL | Build hybrid application across permises and to integrates with Saas | NA |
| Web APIs | | Does support Web APIs | Does support Web APIs | Does support Web APIs | Does support Web APIs |
| Programming Framework | | Django  Drupal | Django  Wsgi | Drupal  Sympony | NA |
| Pricing | Machine CPU | For 1 vCPU’S, 1 GiB memory - $0.013/hour | NA | NA | NA |
| Storage | Not Specified  Depends on usage | Cloud Storage: free upto 5 GB and $ 0.026 /GB/month | Depends on the usage | Not Specified  Depends on usage |
| I/O | Not Specified  Depends on usage | Outgoing Network Traffic: 1 GB free and $0.12/GB  Ingoing Network Traffic: free | Depends on the usage | Not Specified  Depends on usage |
| Bandwidth | Not Specified  Depends on usage |  | Depends on the usage | Not Specified  Depends on usage |

Cloud Computing Platforms Comparison