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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google App Engine | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Public Sector | Build and deploy your application | How to build your application and where to put data | Private cloud |
| Infrastructure and virtualization architecture | | Uses AWS direct connect. It is available with low cost. | Provides more infrastructure but supports limited applications. Available with moderate and low cost range. | Microsoft Azure Express Route is used. It is costly. | IBM WebSphere application infrastructure. |
| Platforms | | IAAS | PAAS | IAAS, PAAS | IAAS |
| Persistent Storage | | EC2- Elastic Cloud Storage, Dynamo | MySQl Cloud | Azure SQL Data Base in virtual machines | This is independent and can be easily binded to any service or application |
| Monitoring | | Amazon cloud watch | Google cloud monitoring | Verbose | IBM Smart cloud monitoring |
| Load Balancing | | Elastic Load balancing. It automatically distributes the incoming application traffic across multiple EC2 instances in the cloud. | Google compute engine | Microsoft Azure load balancer. It distributes load among a set of available servers by computing a hash function on the traffic received on a given input end point. | Elastic load balancing. |
| Message Queues | | Amazon simple queue service (fast and reliable) | Push queues | Azure queue | IBM web sphere message queue |
| Development Tools | | Amazon SDK with management console | Eclipse, Jenkins, PyCharm, Maven, IntellIj | Azure Power shell SDK | Many tools are supported like IBM Domino designer, IBM connector for SAP solutions. |
| Integration with other services | | Can be easily integrated with other services | Highly supportive.. with API’s like maps etc.. | Highly supportive. For example .Net services etc… | Highly supportive |
| Web APIs | | Available | Available | Available | Available |
| Programming Framework | | Java, PHP, Ruby, .Net etc… | Java, PHP, Ruby, Python, Go | Java, Ruby, .Net | Java, PHP, Nodejs etc… |
| Pricing | Machine CPU | 0.14$/hour | 0.1$/hour | 0.12$/hour | 0.10$/hour |
| Storage | 0.25$/ GB/Month | 0.16$/GB/Month | 0.15$/GB/Month | 0.15$/GB/Month |
| I/O | 0.1$/1000 | 0.1$/1000 | 0.1$/1000 | 0.15$/1000 |
| Bandwidth | 0.1/GB | 0.1$/GB | 0.1$/GB | 0.1$/GB |

**Cloud Computing Platforms Comparison Class ID: 1 (A.L.VAISHNAVI) 16184845**