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| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google App Engine | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Network infrastructure, targeting mainly online services for the client applications | Platform and runs on google infrastructure | Cloud Computing Platform | Cloud Computing Platform |
| Infrastructure and virtualization architecture | | Ec2 Elastic Compute Cloud upon which you can instantiate 32 or 64 bit Amazon Machine Images or upload your XEN virtual machine images | Search engine which can manage high traffic | Servers runs in virtual machines on windows Azure while front end is in .net servers can be customized. | Open cloud infrastructure  With Virtual Machine Instances – multiple sizes for 32 and 64 bit architectures. |
| Platforms | | Infrastructure as a Service, Linux and Windows | Platform as a service | Microsoft Server 2008 | Infrastructure as a Service |
| Persistent Storage | | Elastic Block Storage(EBS) | Cloud Storage | SQL Database | Persistent Storage with Virtual disks |
| Monitoring | | Amazon Cloud Watch | Google cloud monitoring API | Azure Management Portal | IBM Smart Cloud Monitoring |
| Load Balancing | | Elastic Load Balancing(ELB) | Google Compute Engine | Automatic load balancing depending on the traffic | Virtualization and map reduce technique. |
| Message Queues | | Simple Queue Service(SQS) | Pull, Push and Task queues | Azure Data Queues. | Message Queues |
| Development Tools | | SDK’s, eclipse plugins, IDE toolkit, web console command line API’s for all services | SDK, Eclipse | Visual Studio and SDK for .NET | Eclipse |
| Integration with other services | | SQS, Simple DB | Database,API’s | Large number of .NET services including line services. | File Systems |
| Web APIs | | yes | yes | yes | yes |
| Programming Framework | | Java, .NET, PHP, Python, Django | Python,java, go, c, php | .NET Services | Python framework, Java |
| Pricing | Machine CPU | $0.10 per hour per GB | $0.10 per hour per GB | $0.12 per hour per GB | $0.10 per hour per GB |
| Storage | $0.01 to $0.03 per GB per month | $0.005 to $0.15 per GB per month depending on the size | $0.01 to $0.15 per GB per month | $0.150 per GB per Month |
| I/O | $0.05for 1000 I/O operations | $0.01 for 1000 operations | $0.01 for 1000 operations | $0.01 / 1000 operations |
| Bandwidth | $0.1 to $0.15 depending on incoming or outgoing | $0.10 to $0.12 depending on the incoming or outgoing traffic | $0.10 to $0.45 depending on the incoming or outgoing traffic | $0.10 to $0.12 depending on the incoming or outgoing traffic |