Cloud Computing Platforms Comparison

(GOURI PRIYA VANGAVARGU – 50)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Amazon AWS | Google AppEngin | Microsoft Azure | IBM Smart Business Dev. |
| focus | | Rapid delivery | Platform as a service(Paas) | Pay as you go approach with no penalty | Broad cloud portfolio |
| Infrastructure and virtualization architecture | | Uses AWS Connect and XEN Para-Virtualization Architecture. | Uses search engine infrastructure with redundancy, global network and products | Deploy a full range of open and community driven OS and software solutions | Flexibility to have public private or hybrid clouds depending on business needs​ |
| Platforms | | Iaas | Paas | Iaas+Paas | Iaas |
| Persistent Storage | | S3, EC2 | Post gre SQL | Microsoft SQL,MONGO DB | MySQL |
| Monitoring | | AMAZON Cloud Watch | GOOGLE CLOUD MONITORING | BATCH POWER SHELL | IBM Smart Cloud Monitoring Tool |
| Load Balancing | | Elastic Load balancing | Google compute engine | Azure Load balancer | Elastic Load balancer |
| Message Queues | | Simple queue service(sqs) | Push and Pull queues | Azure data queues | Web sphere queues |
| Development Tools | | AWS tools | Net beans and eclipse | Azure command line interface | IBM watson |
| Integration with other services | | Dynamo DB | A number of API’s available like maps, contacts , calendar etc. | Large number of .NET services including live services | Rest Java API |
| Web APIs | | yes | yes | yes | yes |
| Programming Framework | | PHP  Python | Python | Java  .NET  Node  Ruby | Ruby  Java  Node |
| Pricing | Machine CPU | FOR S3  NO | $0.10 PER HOUR | $0.12 PER HOUR | $0.10 PER HOUR |
| Storage | $0.055-0.165 PER GB | $0.15 PER GB PER MONTH | $0.15 PER GB PER MONTH | $0.15 PER GB PER MONTH |
| I/O | $0.01-0.011 PER 10,000 READ AND WRITE REQUESTS | $0.10 PER HOUR | $0.01 PER 10000 REQUESTS | $0.01 PER 10000 REQUEST |
| Bandwidth | $0.10 PER GB | $0.10 PER GB-INCOMING TRAFFIC  $0.12 PER GB-OUTGOING TRAFFIC | $0.10 PER GB-INCOMING TRAFFIC  $0.15 PER GB-OUTGOING TRAFFIC | $0.10 PER GB |