**CS551 Advanced Software Engineering**

Feb. 25 (T), 2014

In-Class Exercise

http://cloud-computing.findthebest.com/compare/5-15-17-24/Amazon-EC2-vs-Google-App-Engine-vs-Microsoft-Windows-Azure-vs-IBM

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|  | | **Amazon**  **AWS** | **Google**  **AppEngine** | **Microsoft**  **Azure** | **IBM**  **Smart Business Dev.** |
| Focus | | infrastructure | platform | platform | infrastructure |
| Infrastructure &  Virtualization  Architecture | | Operating system (OS) level running on XEN hypervisor | Application container. | Operating system (OS) level through fabric control. | Hypervisors. |
| Platforms | | Linux, window server, fedora, cent OS | Window server, linux | Fedora, window server, cent OS , linux, debain. | Window server, linux |
| Persistent Storage | | 160 Giga byte | 500 Mega Byte | 225 Giga byte | 60 Giga byte |
| Monitoring | | Yes | No | Yes | Yes |
| Load Balancing | | Yes | Yes | Yes | Yes |
| Message Queues | | Yes | Yes | Yes | Yes |
| Development Tools | | Cloud watch command line tool, EC2 AMI/API tools | Users mail / data stores API, url fetch. | .NET, SQL,MICROSOFT, share point. | IBM Rational Tool. |
| Integration with  other services | | Yes | Yes | Yes | Yes |
| Web APIs | | Yes | Yes | Yes | Yes |
| Programming  Framework | | PHP, .NET, JAVASCRIPT, WINDOWS, PYTHON | PHP preview, GO experimental,  JAVA, python | C#, java, ruby, PHP, python, .NET | C#, RUBY, JAVA, PYTHON |
| Pricing | Machine | Per hour $0.145 | Per hour $0.10 | Per hour $0.18 | Per hour $0.0965 |
| Storage | Per month $0.12/GB | Per month $0.18/GB | Per month $0.095/GB | Per month $0.19/GB |
| I/O | Per hour $3.10 | Per hour $0.08 | Per hour $0.072 | Per hour $0.125 |
| Bandwidth | INBOUND: $0.00  OUTBOUND:$0.02 per GB | INBOUND:$0.00  OUTBOUND:$0.12 per GB | INBOUND:$0.1per GB  OUTBOUND:$0.12 per GB | INBOUND:$0.15 per GB  OUTBOUND:$0.15 per GB |