

Computer Mediated Communication (CE6014)

Virtualization

November 2011

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Benefits



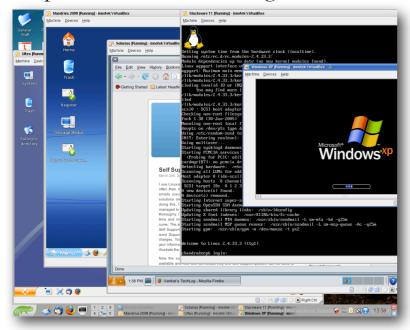
- Consolidate servers
- Conserve energy
- Improve ease of management
- Reduce backup and recovery time
- Test software configurations
- Maintain legacy applications
- Support a cross-platform office

Virtualization software options (desktop)



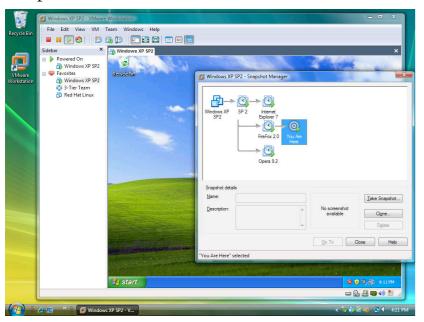
VirtualBox,

https://www.virtualbox.org/



VMWare,

http://www.vmware.com/



Parallels,

http://www.parallels.com/



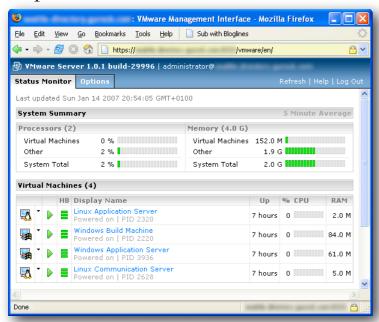
Comparison of platform virtual machines, http://en.wikipedia.org/wiki/Comparison_of_platform_virtual_machines

Virtualization software options (server)



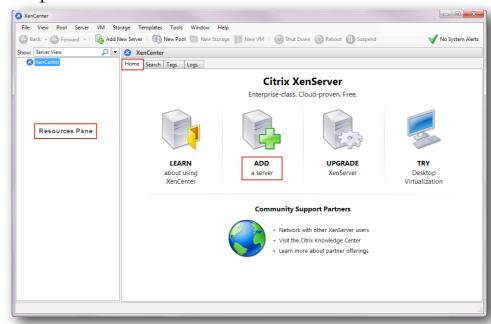
VMWare,

http://www.vmware.com/



Citrix,

http://www.citri.com/



Comparison of platform virtual machines, http://en.wikipedia.org/wiki/Comparison_of_platform_virtual_machines

Cloud virtualization options



- Hardware virtualisation
 - Amazon/EC2 (http://aws.amazon.com/)
- Software virtualisation
 - Citrix XenApp (http://www.citrix.com)

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Zynga.com

- Creators of the most popular Facebook games: Farmville, Mafia Wars, Treasure Isle, etc.
- More than 12,000 servers on AWS
- More than 230 million monthly users
- 100% on AWS





Netflix.com

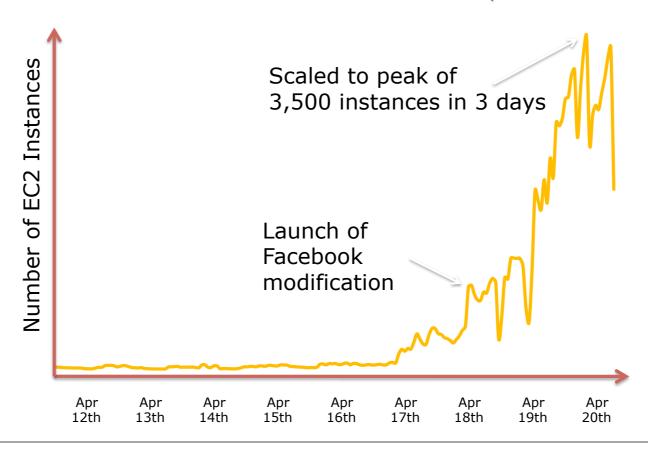
- More than 9 Billion USD market cap
- Migrating 100% on Amazon Web Services
- So far: movie lists, website search, transcoding, recommendations, etc.
- 10 M subscribers, 100k DVD titles





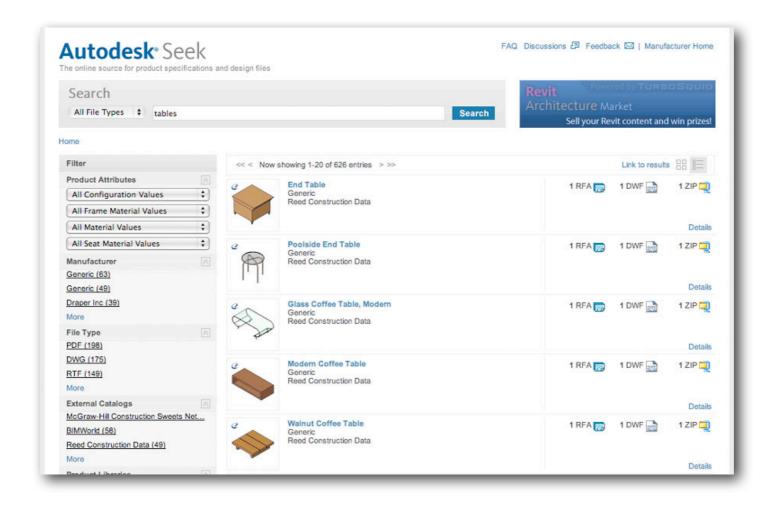
Animoto.com

- Simple application:
 - (1) Upload pictures, (2) upload / choose from existing music, (3) a nice video is automatically created
- It runs 100% on AWS
- Scaled from 80 to 3,500 servers (EC2 instances) in 3 days





- Autodesk Seek (seek.autodesk.com)
 - Autodesk Seek is the online source for architects and building engineers to search and download manufacturer design information (i.e., reusable CAD models that can be dropped directly into design projects).



Cloud BIM virtualization



- Different providers
 - CaddForce (www.caddforce.com)
 - BIM Cloud Solutions (www.bimcloudsolutions.com)
 - etc.
- Different Graphisoft approatch
 - BIM server
 - www.graphisoft.com/products/ archicad/teamwork.html



