How Cloud Computing Support Student Research

DORINE PETIT

MARIA VICTORIA PALACIN SILVA

Cloud Computing

What is the 'Cloud'?
◦ Computing as a service over the Internet
◦ Distribution on demand (including everything)
◦ Offer storage over the Internet
◦ Computing power
◦ Pay-for-use basis

Cloud Computing services
◦ Software as a Service (Saas) - Cloud-based application
◦ Platform as a Service (PaaS) - Cloud-based environment
◦ Infrastructure as a Service (IaaS) - Computing resources

Saas

Paas

Iaas
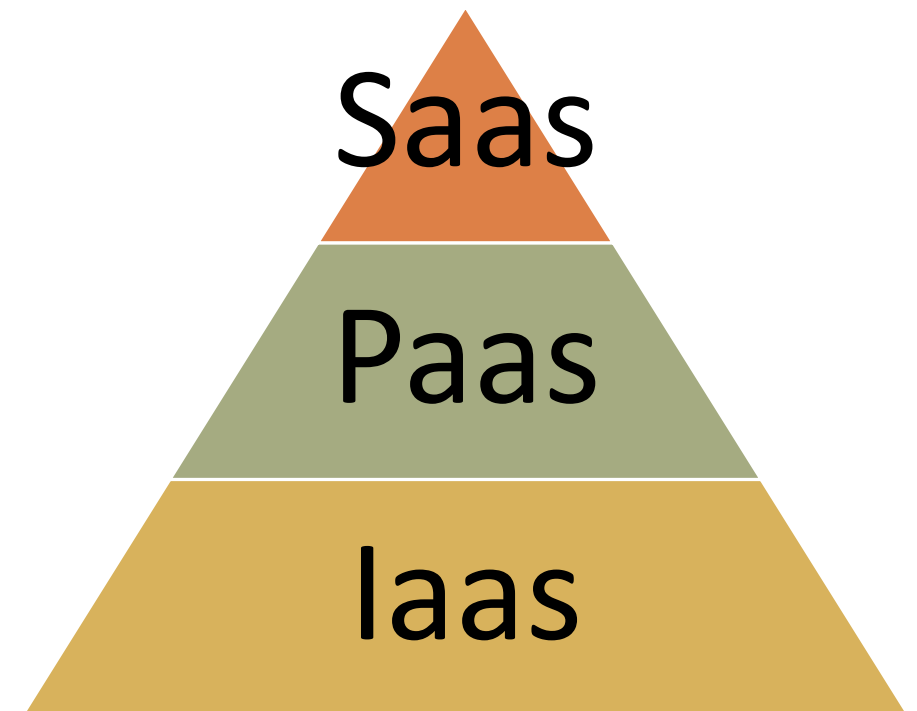
Essential Characteristics

On-demand self-service

Broad network access

Resource pooling

Rapid elasticity

Measured service

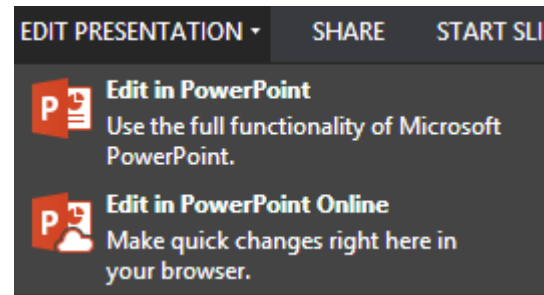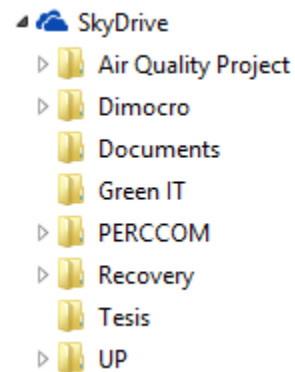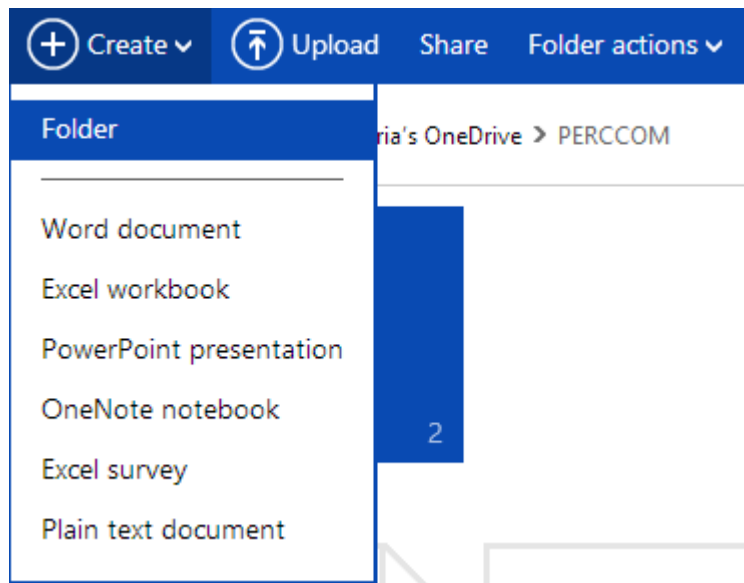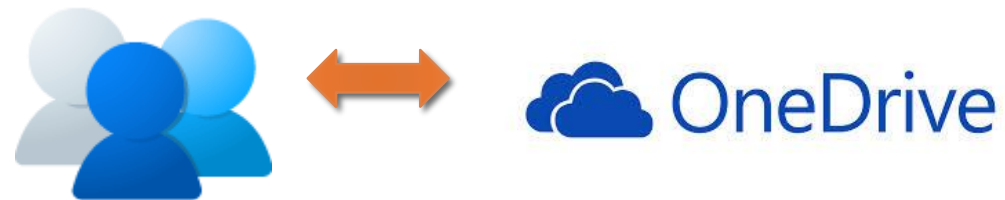# Case 1: Free account, 25GB

Case 2

- Virtual Machine
- Cloud Services
- Web Services
- Mobile Services
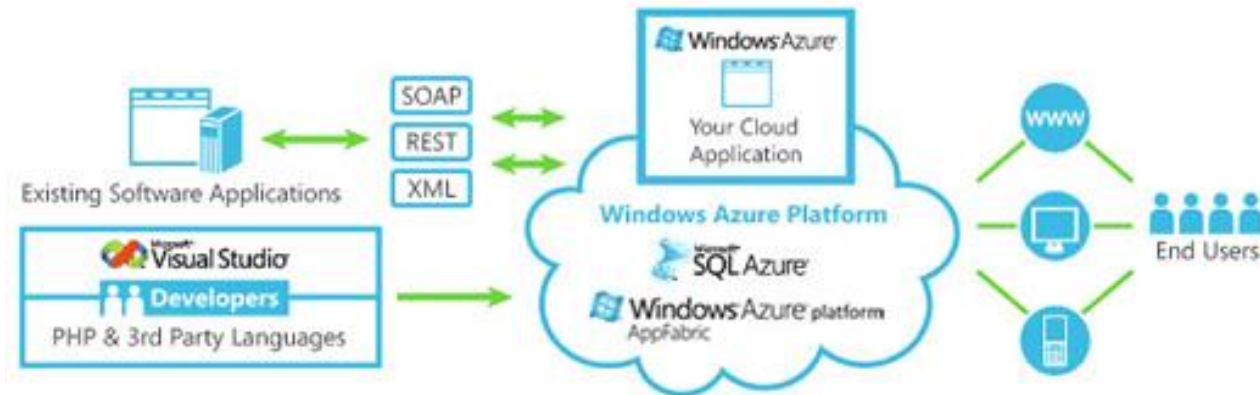
References

1. Google . 2014. *Google Cloud Platform.* Accessed June 03, 2014. https://cloud.google.com/products/compute-engine/

2. IBM. 2014. *Cloud Computing IBM.* Accessed June 03, 2014. http://www.ibm.com/cloud-computing/fr/fr/what-is-cloud-computing.html

3. Mell, Peter, and Timothy Grance. 2011. *The NIST Definition of Cloud Computing.* NIST Special Publication 800-145, Gaithersburg,: U.S. Department of Commerce & National Institute of Standards and Technology.

4. MENG, Qingjie , and Changqing GONG. 2013. "Research of cloud computing security in digital library." *IEEE Xplore* 4.

5. Microsoft. 2014. *Microsoft Azure.* Accessed June 03, 2014. http://azure.microsoft.com/en-us/