## Schedule of Course Activities: Session 31

## *[Cloud 519: Introduction to Cloud Computing Online-Based]*

|  |  |
| --- | --- |
| **Overview of Session** |  |
| We will answer the following questions: | 1. Cloud Computing Career Overview. 2. What’s in demand? 3. How do you fit in? 4. … |
| Learners will understand the following concepts: | 1. Learn the state of the industry on data center. 2. Know and invest effort to learn your particular subject of interest. 3. ... |
| Learners will practice the following skills: | 1. Explore how this is related to your daily internet usage experiences. 2. Explore the ideas of how taking the subject will help my career ahead. 3. … |
| **Preparation for Session** |  |
|  | Please review last session, as explore further based on your personal experiences. Prepare additional questions as needed. |
| Session Activities |  |
|  | Video + MS Word documents.  As captured in “Overview of Session”, and in Blackboard. |
| **Assessment Activities** | 1. Participation to the class by reading/watching the class material. 2. Think, and explore your own answers, interpretations. |
| **DUE** | Explore and share your thoughts on storage clustering. |

**What is Cloud Computing?**

* **Cloud computing is a model for enabling ubiquitous network access to a shared pool of configurable computing resources. (OK, we need to have high speed network access).**
* **Cloud computing and storage solutions provide users and enterprises with various capabilities to store and process their data in third-party data centers. (OK, we have huge, “unlimited” free storage).**
* **Cloud resources are usually not only shared by multiple users but are also dynamically reallocated per demand. (OK, we have vast free computing power).**
* **Forget the notion of my PC, my laptop, my … (Does your PC has enough computing power, storage capacity, or the bandwidth for sharing by others? Can you keep your PC software up to date? Really, Uh…?)**
* **Cloud Computing: My personal example experience, I love it, and depend on it!** [**http://tripplanner.kingcounty.gov/**](http://tripplanner.kingcounty.gov/)

**It is a mobile app. It uses GPS, locate me, and tells the next Bus/Train arrival/departure info that will take me to my destination (how long to wait and times it takes… in real time).**

* **What is your 1st Cloud Compute experience?**
* **This video will help for further understanding of Cloud Computing:** [**https://www.youtube.com/watch?v=uYGQcmZUTaw**](https://www.youtube.com/watch?v=uYGQcmZUTaw)
* **…**

**Why Cloud Computing?**

* **This Video largely explains the commercial reasons on Cloud Computing.** [**https://www.youtube.com/watch?v=ojDnOyIQeJU**](https://www.youtube.com/watch?v=ojDnOyIQeJU)
* **Key Take Ways:**
  + **Access from anywhere.**
  + **Quick Deployment (Both hardware, and Software).**
  + **Backup/Recovery is much easier.**
  + **Cost Efficient (Your PC is idle most of the time).**
  + **Security. You are info are being processes in share computing resources.**
  + **…**
* **Another explanation:** [**http://www.salesforce.com/uk/socialsuccess/cloud-computing/why-move-to-cloud-10-benefits-cloud-computing.jsp**](http://www.salesforce.com/uk/socialsuccess/cloud-computing/why-move-to-cloud-10-benefits-cloud-computing.jsp)
* **Thought provoking questions about Cloud Computing:**
  + **Does this means the PC (Personal Computer) Era is over?**
  + **What happen, if I am away from the Cloud? (e.g. Camping in a remote resort?)**
  + **Are your comfortable: All your digital data (e.g. photos, videos) are stored by few corporate cloud providers? Uhh…?**
  + **Your thoughts on alternatives/inventions, please…?**

**Why Cloud Computing does NOT exist 10 years ago?**

* **Internet Speed/Access: It was a premium then, few can afford. Slow internet access is no fun!**
* **Storage: The notion of FREE storage was beyond common sense then. Yes, it is here today (almost 100% free…).**
* **Computing Power: This is less obvious. 10 years ago, the computing power of the computer servers (used in the data center) are not adequate to meet the large/concurrent demanding by so many different users.**
* **Freedom: Some governments are still paranoid about shared knowledge, share data, share resources. E.g. Google, Youtube…**
* **Internet Security: Both the software, and hardware infrastructures simply were NOT adequate to handle this 10 years ago.**
* **…**

End-of-Class Module.

Questions? Please email to me, or post it on Blackboard.

Thank you.