Public Sector Cloud – Constraints & Requirements

Infocomm Development Authority of Singapore
Pre Cloud ICT Situation

- IDA as Government CIO
- A WOG infrastructure (SHINE), operated by an appointed third party, to provide shared computing resources to government agencies on an "as-a-service" subscription model
Easing Procurement

- Prequalifying public cloud service providers to enable agencies to overcome lengthy procurement process
- Intended for Government ministries, statutory boards & participating entities to ease their procurement of cloud services

- Services include
  - Infrastructure-as-a-Service
  - Software-as-a-Service
Requirement - Cyber Watch Centre

- A requirement of all Internet facing sites
  - Can seek waiver based on
    - Impact analysis
    - Classification of information & system

- Impact
  - Every agency needs to seek waiver even if from same CSP
NLB tackles Web Archiving

Web Archive Singapore

- **Aim:**
  - Crawl all .sg websites to capture materials of national & historical significance
  - Index all retrieved web contents

- **Challenge:** Requires extensive use of IT resources
First in Asia to provide Web 2.0 communication & collaboration tools to 30,000 teachers & staff in over 350 schools

Goal is to adopt innovative technologies within education profession to drive next-generation learning & communications

Use of Google apps was estimated to save ~ $360,000 a year

Applications also promote interactive teaching & learning

Business Times - 23 September 2009
Central G-Cloud

- Aims to provide a cloud infrastructure for Whole-Of-Government (WOG) to leverage on

- Next-generation infrastructure to replace SHINE, enabling
  - Standardisation
  - Sharing of computing resources & applications at WOG level

- thereby generating cost savings to Government
Central G-Cloud Design

- Designed to meet three levels of security & governance requirements

  - High Assurance Zone – physically dedicated computing resource pool which will only be used by Government to serve its high assurance needs

  - Medium Assurance Zone – computing resource pool which will be shared with non-government cloud users for lower cost computing resources for Government

  - Basic Assurance Zone – use of public cloud computing