



## Secure Cloud Computing Implementation Study for Singapore Military Operations

### Objectives:

- Examine how secure and successful cloud computing has been implemented in the commercial and private sectors
- Research how cloud computing can be used to support Singapore's military operations

### Main Research Ideas:

- Research and analysis of existing cloud computing technology
- Defining "information security" in cloud computing
- Development of a cloud computing framework for the Singapore Armed Forces (SAF)

### Benefits/ Applications:

- Cloud Computing has been found to increase cost-effectiveness in the healthcare, business and defence sectors
  - Shared licensing and reduced infrastructure for software and hardware
- U.S. Military has also leveraged cloud computing for its operations
  - Recruitment, Software Development Platform, Self Service HR Enquiry, etc.
- Framework and policy statements developed for the SAF to consider adopting cloud-based computing in support of its operations

Step 1:  
Assess Applications  
and Workloads

Step 2:  
Build the "Operation"  
Case

Step 3:  
Develop the Technical  
Approach

Step 4:  
Adopt a Flexible  
Integration Model

Step 5:  
Address Security and  
Privacy Requirements

Step 6:  
Manage the  
Migration

### Follow-Up Research:

- Organization structure of SAF "cloud" office required to provide sufficient IT support
- Implementation study of military cloud features
  - Due to limited bandwidth in the cloud environment

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