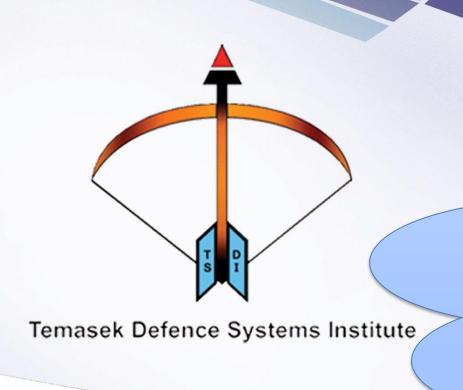
Temasek Defence Systems Institute



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 cloudbased 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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