



# Cyber Security and Reliability in a Digital Cloud

*U.S. Department Of Defense*

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Cloud computing is viewed by many as the next major step in the evolution of computing infrastructure. Very large commercial cloud computing data centers have emerged around the world with petaflops of processing capacity, hundreds of petabytes of data storage, and wideband network access. Services, including electronic mail, data storage, database management, application hosting, very large dataset processing, and high performance computing, are globally available today from many cloud computing data centers. Cloud computing advocates promise on-demand delivery of these massive, warehouse-scale computing resources simply and easily through a network browser. Much of the technology and computer architecture that enable modern cloud computing has roots in the mainframe, client-server, and early internet computing eras. What has emerged in recent years, however, differs from all of these in many attributes. Cloud computing data centers have different capabilities, risks, and security concerns than conventional networks, as well as different cost and efficiency models.

These differences are substantial, and have resulted in a wide variety of realistic and unrealistic claims for cloud computing, as well as a good deal of hype and confusion. With the proper implementation and operations, cloud computing data centers have demonstrated as good or better cyber security, capabilities, and cost than is currently available in Department of Defense (DoD) data centers. These improvements, however, are by no means guaranteed for every case and very much depend on the specific details of the implementation and operations.

Cloud computing offers the DoD new, agile computational capabilities to support increasingly multifaceted missions. Some DoD missions likely to benefit from cloud computing services will involve varying or unpredictable computing requirements, or the integration of many, high-capacity data feeds from sensor networks and other sources. Other missions may include the analysis of very large data sets or those that require the ability to move computational resources. An additional benefit is the productivity gained from a ubiquitous connection to common cloud-based services, such as email, shared calendars, unclassified training, or document preparation. This study investigates the suitability of the cloud computing approach for addressing the DoD enterprise and operational computing needs. Over the past few years, DoD has transitioned some of its computing needs to cloud computing data centers. The main factors driving this transition include enhanced mission capabilities, potential reduction in data center costs, and potential improvement in cyber security. This study has investigated these factors in detail and has analyzed the characteristics that should be considered when DoD contemplates moving applications onto cloud computing data centers. The study also investigated ways for the DoD to manage the cyber security risks and benefits associated with cloud computing.

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