

TRI-SEC FOR FILES USING AWS

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Abstract--Cloud security is an evolving sub-domain of computer and network security. Cloud platform utilizes third-party data centers model. An example of cloud platform as a service (PaaS) is AWS. It supports several programming languages that are used for web application deployment model. One essential issue in cloud computing is data security, which is handled using cryptography methods. The file will be encrypted using TripleDES and the output given as a input to Advanced Encryption Standard (AES). AES is a symmetric encryption algorithm. it is most robust security protocol. We use AWS as a cloud platform for data security and we implement Tri-Security for secure the files. The performance evaluation shows that TripleDES,AES cryptography methods can be used for data security.

I. INTRODUCTION

Cloud computing technology can be implemented various architectures, and services with other technology with various software design approaches. Available service models for cloud computing, include infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS). Cloud computing is the on-demand delivery of compute power, database storage, applications, and other IT resources through a cloud services platform via the Internet with pay-as-you-go pricing. Amazon Web Services(AWS) is a cloud service from Amazon, which provides services in the form of building blocks, these building blocks can be used to create and deploy any type of application in the cloud. These services or building blocks are designed to work with each other, and result in applications which are sophisticated and highly scalable.

Amazon S3 (Simple Storage Service) is a scalable, high-speed, low-cost web-based service designed for online backup and archiving of data and application programs. It allows to upload, store, and download any type of files up to 5 GB in size. This service allows the subscribers to access the same systems that Amazon uses to run its own web sites. The subscriber has control over the accessibility of data, i.e. privately/publicly accessible.

Triple DES is a symmetric-key block cipher, which applies the DES cipher algorithm three times to each data block. One of the most popular and the most secure encryption algorithm is Advanced Encryption Standard (AES). AES is a symmetric block cipher with block size variation of 64 to 256 bits.

