عنوان مقاله:

Improving security using blowfish algorithm on deduplication cloud storage

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خلاصه مقاله:

Nowadays, most of the commercial processes have been digitized. Data mostly is of great value, thus any damage or loss of it can be a great disaster for its owner. Large enterprises want to store information in a place with maximum security and low cost. One of the information-storing place is cloud that the world moving toward it. The providers of storage space are trying to improve security in the cloud.To decrypt of data in cloud storage server 64-bits secret-key block cipher called Blowfish algorithm is used. The blowfish algorithm has improved in point of security and performance comparing DES, 3DES, AES. In this paper we assume a deduplication storage server and set the blowfish. At 20 Mb block size the time of blowfish algorithm was (1.7 t) comparing with other algorithms .Also, failure time of blowfish was 60 t that it was less than DES, AES, and 3DES failure time. The results are shown with blowfish algorithm the security of storage data improved. In addition, this algorithm was implemented on the deduplication server. The Winhex output has shown all data in the encrypted format that confirmed the attacker couldn’t access to .the original data

کلمات کلیدی:

Blowfish, Encryption, Security, Deduplication server