Abstract

The technology of Cloud computing is permit the subscribers to store their own data in its infrastructure. The subscribers will be able to use their stored data whenever they required. Since the data are stored outside their boundary, it needs to use a strong encryption during transmission process to be protected well. Thus, in this paper we have proposed a model to use a hybrid encryption and decryption process based on AES-128 and RSA algorithm. Furthermore, we used HMAC algorithm to ensure the integrity and authenticity of data. Our experiment work has been done to explain the time required, throughput and memory utilization for encryption and decryption based on different size of files.

References

Index Terms

Computer Science  Security

Keywords