ABSTRACT

Data security and confidentiality are very important aspects that need to be maintained. Cases that occur due to the insertion of an application on a visitor's device that can extract the visitor's email, contacts, and files. Protect text data through encryption and compression using the RSA algorithm. The data used can be text or text files. Text or data in the form of text is first encrypted using the RSA algorithm and then compressed using another algorithm or can be used immediately. The average speed of key generation is 0.155 seconds, encryption speed 0.020 seconds, compression speed 0.017 seconds, decompression speed 0.044 seconds, and decryption speed 0.039 seconds. The results of the text data compression analysis are 52 bits of text before compression, and 96 bits of text after compression. Encrypting and compressing text data or text files can help you send confidential messages that you don't want others to see.

Keyword : encryption, compresion, RSA, text