ABSTRACT

APPLICATION FOR ONLINE FILE STORAGE WITH ENCRYPTION USING MODIFIED VERTICAL BIT ROTATION (VBR) 32 BITS ALGORITHM

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Encourage the development of internet and website use of the Internet as a place to online file storage. The rise of online file storage techniques facilitate the storage and dissemination of the file.

Many of the facilities offered, but from the security side, there is no absolute security. One way of securing files are encrypted the file using cryptographic algorithms, and this study will be used Vertical Bit Rotation (VBR) as the cryptographic algorithms used to increase the level of security in terms of storing files online.

VBR is a cryptographic algorithm that are still in early stages of development, so that the safety level is unknown, and this research will be improved VBR so it can have a better level of security.

Have been many studies that use the Avalanche Effect as a parameter to assess the security level of a cryptographic algorithm. This research is also use the avalanche effect as a parameter to determine the level of security, both before the development of cryptographic algorithms VBR and after development.

From this study we can conclude that modified of VBR can be used to encode files stored online. From the value of its avalanche effect can be said that the results of the development, modified of VBR becomes in good category.

Key words : cryptography, vertical, avalanche effect, modification, 32 bit