ABSTRACT

APPLICATION of ENCRYPTION VIRTUAL DISK USING ALGORITHM SHA (SECURE HASH ALGORITHM)

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Each and everyone surely own the important data they which must protect in order not to lose or stolen by irresponsible party. Particularly at one particular company owning the more amount data. Data owned by an company can become one of important asset to the continuity of the company life. A storage media of data with the full security system very needed.

In an encryption system VHD, a virtual disk may appear to provide the appropriate password. With functionality like a normal disk drive, the difference of the virtual disk is that each file is entered in encrypted automatically. Software in the end of this paper the task of implementing the encryption VHD on the Windows operating system using the SHA (Secure Hash Algorithm) algorithm as the encryption algorithm.

Operation which can be conducted in this application: making volume file, mount and unmount, modification to virtual disk, encryption, decryption,

Keywords: virtual disk, SHA (Secure Hash Algorithm)