

Toughvault Encrypted storage safeguarding data at rest with authentication via Toughkey

WHAT IS IT?

Toughvault is an encrypted workspace designed to protect whitelisted applications and data at rest. As part of the Lokblok Zero Trust Ecosystem, Toughvault works in conjunction with Toughkey, a secure USB device, to provide an extra layer of security for sensitive data and applications. By requiring Toughkey for authentication, Toughvault ensures that its existence remains hidden from unauthorized users and that only authorized personnel can access the data and applications within.

HOW DOES IT WORK?

Toughvault performs the following functions to provide robust data protection:

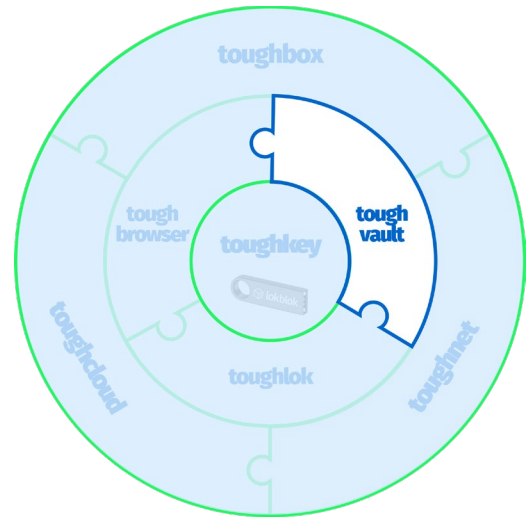
Encrypted Storage: Toughvault is Lokblok's solution for encrypted data storage at rest. It securely houses most, if not all, whitelisted applications within the Lokblok platform, ensuring that sensitive data is protected even when not in use.

Secure Authentication: Toughvault requires the use of Toughkey to unlock the vault. This means that the vault remains unmounted and hidden within the operating system until the authentication process is complete. This ensures that only authorized users can access the vault and its contents.

Access Control: Toughvault employs a superset of policies that dictate access permissions, determining which users and applications have access to the vault and its contents. This helps prevent unauthorized access and maintain the security of sensitive data and applications.

WHY USE IT?

There are several reasons to use Toughvault as part of your security strategy:



Lokblok Zero Trust Ecosystem

Enhanced Data Protection: By encrypting data at rest, Toughvault helps to protect sensitive information and applications from unauthorized access, ensuring that they remain secure even if the device they are stored on is compromised.

Seamless Integration with Toughkey: As part of the Lokblok Zero Trust Ecosystem, Toughvault works seamlessly with Toughkey to provide a comprehensive security solution. The requirement of Toughkey for authentication adds an extra layer of protection and helps keep the existence of the vault hidden from unauthorized users.

Access Control: Toughvault's access control policies ensure that only authorized users and applications can access the vault and its contents. This helps to maintain the integrity of the data and applications and prevent unauthorized access.

Hidden Vault: The fact that the vault is not mounted until authentication is completed means that its existence remains a secret from unauthorized users, adding an extra layer of security to the system.

TECHNICAL SPECIFICATION

Windows 10 and newer

64 bit only

AES-256

ECDH

Hardware Key Protection

SUMMARY

Toughvault is a critical component of the Lokblok Zero Trust Ecosystem, providing encrypted storage for sensitive data and applications at rest. By requiring Toughkey for authentication and employing strict access control policies, Toughvault ensures that only authorized users can access the protected data, while keeping its existence hidden from unauthorized users. With its seamless integration with Toughkey and enhanced data protection capabilities, Toughvault is an essential tool for organizations looking to safeguard their valuable digital assets.