ENTROPYA

DIGITAL DEAD DROP (D3)

Overview

The Digital Dead Drop (D3) Data Server offers a state-of-the-art solution for post-quantum cryptography (PQC) secured data management, synchronization, and backup across distributed networks worldwide. Built with a distributed architecture and protected by PQC, this platform ensures total confidentiality, integrity, and access, with seamless and HTTPS hidden synchronization of sensitive data across servers. The innovative architecture leverages a Software Defined Private Network (SDPN) to provide robust, untraceable data-at-rest and data-in-transit protection, setting new standards in cybersecurity.

Key Features

Distributed Server Architecture

- D3 operates on a fully distributed server platform ensuring resilience. It uses a global network of transit nodes for data synchronization, supported by the latest standard for PQC, combating man-in-the-middle attacks, supercomputers, & quantum computing.

Hidden Server

- Our D3 server integrates either an Iron Edge Gateway (IEG) or a Virtual Dissimulated Encrypted Server (VDES) Gateway between the Internet and the data server, ensuring data encryption at the gateway level, removing digital signatures and hard selectors. This eliminates dependencies on third-party service providers and further enhances security. Both VDES and IEG ensure zero detection or interception during the backup synchronization process.

Robust Backup Feature

- D3 offers a highly secure backup system through a secondary destination server using separate encrypted SPDN routes. Data is routed through various locations (e.g., Frankfurt, New York) and segregated via the VDES gateway.

Global Data Synchronization

- The synchronization process spans multiple global transit servers (e.g., London, Singapore, Amsterdam) using randomized IP addresses and quantum-ready cryptography, securely synchronizing data. This ensures requests are handled across separate software-defined and randomized private superhighways, making data breaches nearly impossible.

Benefits

- **Uncompromising Performance:** Enjoy high performance and protection simultaneously.
- **Leading Grade Security:** Harden to 99.999% security and become durably quantum ready.
- **Seamless Global Synchronization:** Resiliently synchronize data globally and hide as HTTPS traffic.
- **Unparalleled Data Integrity:** Our decentralized and PQC SDPN prohibits tampering and interception.
- **Scalability:** 16 terabytes to petabyte scale.

Applications

- **Finance:** Secure sync and backup.
- **Healthcare:** Protect, update, and archive sensitive patient records and medical data.
- **IoT Networks:** Safeguard and sync data from IoT devices across distributed networks.
- **Government & Defense:** Ensure critical data security for national defense infrastructure.
- **Critical Backups:** Prevent loss and secure data with write-only immutable backups.

User Experience

- The D3 platform offers seamless integration with minimal user interaction. Data invisibly synchronizes and backs up, blending in with HTTPS traffic.

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