

Immutable Storage for Mainframe

CA 1™ Flexible Storage and Trusted Access Manager for Z (TAMz)

Key Benefits

- **Flexibility:** Write backups anywhere you choose — including disk, physical tape, or the cloud.
- **Security:** Control who has privileged access to sensitive systems, only elevating privileges as needed.
- **Protection:** Safeguard your sensitive data with robust encryption, both at rest and in transit.
- **Efficiency:** Streamline data access and protection by reducing batch processing needs by up to 20%.
- **Savings:** Save millions in storage costs over time without any additional hardware or investments required.

Key Features

- **Reduce data storage costs** by storing encrypted backups in flexible cloud storage.
- **Defend against ransomware** with encrypted immutable (unchangeable) volumes.
- **Accelerate encryption time** at the dataset (file) level.
- **Compress data files up to 90%** with the hardware compression engine.
- **Gain complete access control** by elevating or demoting existing user identities based on business needs.
- **Simplify auditing** by eliminating credential sharing, maintaining a complete line of sight into privileged user activities.

Meet compliance requirements and defend against ransomware attacks with Broadcom's cost-effective and secure immutable storage.

Business Challenges

The integration of robust mainframe systems and agile cloud software has ushered in a new era of enterprise IT. While this hybrid landscape offers unprecedented versatility and scalability, it also exposed the once-isolated mainframe to a host of network-based threats through APIs, web services, and complex third-party supply chains.

Ransomware attacks, where hackers encrypt critical data and demand payment for its release, have become increasingly prevalent across hybrid environments. As a result, standards like PCI DSS are mandating immutable storage — combining robust encryption and privileged user access management — to protect sensitive data from this threat.

In addition to security concerns, organizations are struggling with the rising volume of data and the need for long-term storage, both of which strain traditional storage infrastructure and budgets. Companies face the conflicting priorities of optimizing their storage investments without compromising their security.

Solution Overview

Broadcom's Immutable Storage offering prevents unauthorized data modification or deletion, effectively safeguarding against malicious encryption and extortion attempts common in ransomware attacks. Utilizing z/OS and IBM Z hardware native solutions, it eliminates the need to interface with off-platform software or hardware that would introduce added risk. Additionally, these tools support all three ESMs and integrate seamlessly into your SIEM for comprehensive protection and visibility.

CA 1™ Flexible Storage enables storage teams to back up their mainframe data using an immutable volume that can be stored on any device or cloud. These cost-effective backups are encrypted before leaving the mainframe, ensuring they are protected against threats. Additionally, it replicates the Tape Management Catalog, enabling faster recovery in case of failures. In the event of a ransomware attack or another data loss incident, the tape backup can be used to restore the mainframe to a pre-attack state — significantly reducing downtime and financial losses.

Trusted Access Manager for Z complements CA 1™ by securing privileged user access to CA 1 Flexible Storage tools, utilities, and configuration files, a critical aspect of immutable storage. It enforces the principle of least privilege by promoting and demoting user identities based on specific

Related Products

- **Multi-factor Authentication – Advanced Authentication Mainframe:** Offers enhanced verification to deepen the trust in the identity of users on your system.
- **Auditor for z/OS:** Performs an automated technical review of your mainframe environment to identify misconfigurations and other exposures.
- **Cleanup:** Automatically removes obsolete user IDs and access rights, establishing a clean security database and simplifying compliance.
- **Compliance Event Manager:** Monitors your mainframe environment with real-time file monitoring and intrusion detection, simplifying compliance management and enabling proactive threat response.
- **Mainframe Security Insights Platform:** Collects, aggregates, and analyzes security data to understand the mainframe security posture and remediate risk.
- **Vantage™ Storage Resource Management:** Centralizes monitoring and policy-based automation for your mainframe storage infrastructure.

needs, reducing the risk of unauthorized changes or data breaches. Broadcom's auditing capabilities also enable you to track user access and quickly pull reports to prove the effectiveness of your security measures.

Together, these solutions create a robust framework for immutable storage, ransomware protection, compliance, and overall cyber resiliency in mainframe environments.

Critical Differentiators

- Enforces the zero trust principle of least privilege.
- Enables compliance with key regulations such as PCI DSS, NIST CSF, and DORA.
- Integrates seamlessly with Broadcom Mainframe Security Suite.
- Secures sensitive data and backups with Quantum-Safe Encryption (new NIST AES256 algorithms).
- Uses little to no Mainframe CPU resources.
- Supports all three Mainframe ESMs.

Broadcom Empowers Your Team Before, During, and After Implementation

Broadcom provides support at every stage of your mainframe modernization journey. Our Beyond Code programs help organizations innovate without disruption, optimize their mainframe environments, and amplify the value of their mainframe investments to drive growth and innovation.

Optimization	Education	Innovation
<p>Expert Guidance for Mainframe Modernization</p> <p>Take advantage of Expert Guided Planning, white-glove support from experienced professionals, to navigate complex changes and maximize the value of your mainframe investments.</p>	<p>Cultivating In-House Capabilities for Long-Term Success</p> <p>Access Broadcom's comprehensive, no-cost mainframe education program with courses, labs, and virtual training to bridge the skills gap and empower your workforce.</p>	<p>Collaboration to Fuel Mainframe Innovation</p> <p>Address unique business challenges through cybersecurity and compliance workshops and software rationalization services, ensuring high ROI.</p>

For more information, please visit: <https://mainframe.broadcom.com/security>