

SOLUTION BRIEF

Modernizing Mainframe Data Management for Hybrid Cloud

BMC AMI Cloud and Pure Storage solutions

For decades, mainframes with mission-critical data have been the backbone of enterprise IT, handling critical workloads with unmatched stability. However, traditional mainframe storage solutions, such as tape and virtual tape libraries (VTLs), struggle to meet modern demands for scalability, security, cost efficiency, and regulatory compliance. Enterprise mainframe customers face the challenge of modernizing data management while preserving the proven reliability of legacy systems in today's cloud-centric, data-driven business environment.

Pure Storage® FlashBlade® and BMC AMI Cloud solutions eliminate legacy VTLs and deliver hybrid-cloud solutions that modernize mainframe data management. This partnership enables seamless cloud integration, enhances security, and unlocks AI/ML-driven insights for smarter business outcomes.

BMC AMI Cloud Solutions with Pure Storage

With BMC AMI Cloud Data, organizations can securely offload, store, and manage mainframe data in the cloud or on premises while ensuring cyber resilience with BMC AMI Cloud Vault. BMC AMI Cloud Analytics transforms mainframe data into open formats for AI/ML, driving real-time business intelligence. Together, BMC and Pure Storage provide a high-performance, scalable, and cost-effective solution for backup, recovery, archiving, and analytics:

- **BMC AMI Cloud Data** enables organizations to securely offload, store, and manage mainframe data both in the cloud and on premises, significantly reducing reliance on costly VTLs and legacy tape infrastructures. The solution offers high-speed, scalable storage through Pure Storage FlashBlade, reducing MIPS/MSU consumption by optimizing data processing. Additionally, BMC AMI Cloud seamlessly integrates with hybrid-cloud and multicloud environments, including AWS, Azure, and Google Cloud.
- **BMC AMI Cloud Vault** ensures robust ransomware protection with immutable data copies stored securely on Pure Storage FlashBlade. This approach enables rapid disaster recovery and enhances cyber resilience through end-to-end encryption and automated, air-gapped backups. Policy-driven automation further reduces risk by simplifying data protection management.
- **BMC AMI Cloud Analytics** enables organizations to transform mainframe data into open formats like JSON, Parquet, and CSV, making it readily available for AI/ML applications and business intelligence. This process offloads processing tasks from z/OS to cloud-based storage, cutting mainframe operational costs and enabling real-time data streaming to modern analytics platforms.



Lower Costs and Complexity

- Eliminate the need for expensive tape systems and VTLs, and retire legacy physical infrastructure.
- Reduce MIPS/MSU costs.



Cyber Resilience and Data Protection

- Ensure secure, immutable backups with ransomware protection and fast recovery.



Optimized AI, ML, and Analytics

- Unlock mainframe data for use in modern cloud analytics platforms.



Seamless Hybrid-Cloud Integration

- Store, access, and manage mainframe data in public and private cloud environments.
- Support hybrid and multicloud strategies.

Technological Features

Combining Pure Storage and BMC AMI Cloud allows organizations to take advantage of key technological features such as:

Optimized mainframe data processing and storage: BMC AMI Cloud directly integrates with Pure Storage FlashBlade, enabling high-speed data movement and retrieval while eliminating the need for VTLs and physical tape infrastructure. Costs are thus reduced by using MIPS/MSU to offload data processing to zIIP engines and cloud-based storage, which are generationally enhanced to handle modern workloads.

Seamless hybrid-cloud and multicloud integration: Together, BMC AMI Cloud and Pure Storage enable organizations to move seamlessly to the hybrid cloud, with support for AWS, Azure, Google Cloud, and private object storage. Data replication is automated between on-premises and cloud environments for long-term retention. Mainframe data (DB2, VSAM, sequential, and partitioned) can easily be transformed into open formats like JSON, Parquet, and CSV.

Advanced data security and cyber resilience: Immutable backups can be stored on Pure Storage FlashBlade systems, protecting against ransomware and cyber threats, and air-gapped storage adds an additional layer of protection against malicious attacks. In addition, policy-driven automation for backup, archiving, and retention adds an extra layer of protection.

AI/ML and advanced analytics enablement: The BMC AMI Cloud and Pure Storage solution enhances running AI and ML workloads by offloading mainframe data processing to cloud-based analytics platforms and integrating with data lakes and modern business intelligence (BI) tools. Organizations can get near real-time analytics on historical and operational mainframe data.

Streamlined management and operational efficiency: BMC AMI Cloud and Pure Storage make data storage simple and efficient with minimal downtime through:

1. A web-based UI for intuitive data management and backup policy control
2. Automated lifecycle management to reduce manual intervention and complexity
3. High-speed recovery for disaster scenarios

Solution Architecture

The BMC AMI Cloud suite integrates mainframe reliability with cloud agility for simplified data management, enhanced cyber resilience, and seamless scalability in hybrid-cloud environments. Integrating directly with Pure Storage FlashBlade for high-performance data storage and protection unlocks immutable backups, robust disaster recovery, and stronger cybersecurity while making mainframe data actionable for AI/ML analytics—driving smarter, more secure business insights.

- **Mainframe data management:** back up, archive, and restore data directly from z/OS to FlashBlade
- **Cloud-based security:** ensure cyber resilience with immutable backups stored on Pure Storage FlashBlade
- **Data transformation:** convert mainframe data to open formats for AI/ML and analytics
- **Multicloud connectivity:** integrate with AWS, Azure, and Google Cloud for long-term retention

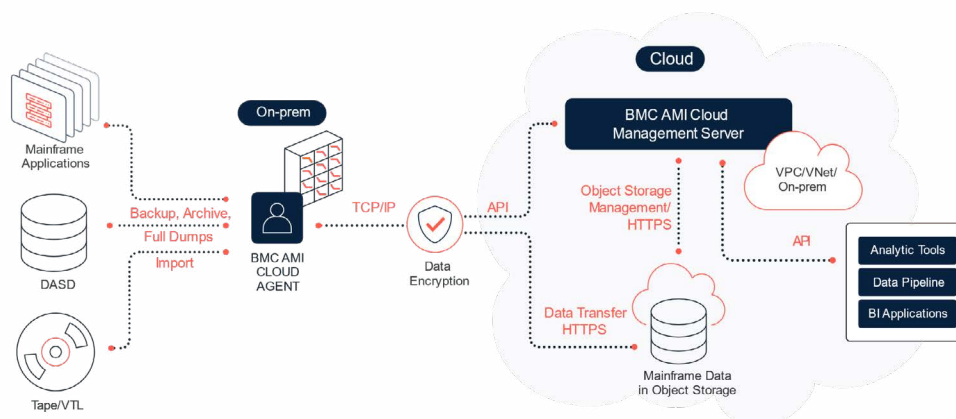


FIGURE 1 BMC AMI Cloud Solution architecture

Why BMC + Pure Storage?

By enabling hybrid-cloud integration, organizations can flexibly store, access, and analyze mainframe data across both cloud and on-premises environments. With BMC AMI Cloud and Pure Storage, organizations gain the agility, security, and performance needed to future-proof mainframe data management while reducing operational overhead.

- **Modernize mainframe data management without disrupting operations**
- **Reduce costs and eliminate legacy tape and VTL infrastructure**
- **Enhance security with immutable, ransomware-protected storage**
- **Optimize AI/ML and analytics by unlocking mainframe data in real time**

Learn More

Discover how BMC AMI Cloud and Pure Storage can modernize your mainframe data strategy.

- [Learn more about our BMC alliance](#)
- [Contact Pure Storage about BMC solutions](#)

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