

SOLUTION BRIEF

Enhancing Secure Access with Pure Storage and CyberArk

Optimizing cyber resilience through enhanced privileged access controls.

In today's digital era, where cyber threats are increasingly sophisticated and data breaches can have devastating consequences, safeguarding privileged access to critical storage infrastructure is paramount. Organizations face growing challenges in managing and securing credentials for storage systems, ensuring compliance, and mitigating risks in real time.

Introduction

The integration of Pure Storage® with CyberArk's on-premises Privileged Access Management (PAM) solution enhances secure access to storage systems with CyberArk's robust access management capabilities. This integration improves security by automating credential management, securing privileged sessions, and providing unparalleled visibility into storage access.

Together, Pure Storage and CyberArk offer a unified approach to reducing risks, enhancing operational efficiency, and simplifying compliance. This seamless solution empowers organizations to safeguard their most critical storage assets against evolving cyber threats while maintaining ease of management and operational simplicity.

Solution Overview

Integrating CyberArk's Privileged Access Management (PAM) solution with Pure Storage FlashArray™ and FlashBlade® systems enhances security by automating credential management, securing privileged sessions, and enforcing policy-driven password management. Using validated Central Policy Manager (CPM) and Privileged Session Manager (PSM) plugins specifically designed for Pure Storage, this integration streamlines password rotation, reduces human error, and enables comprehensive session recording for compliance. By centralizing access controls and strengthening defenses against cyberattacks and insider threats, the collaboration ensures consistent security protocol enforcement across critical storage systems.

Building on this robust foundation, the integration also offers advanced capabilities such as detailed audit trails, robust access controls, and centralized visibility into privileged activities. These features simplify compliance with regulatory mandates, reduce the risk of unauthorized access, and enhance operational efficiency by minimizing administrative overhead. Together, this unified solution fortifies an organization's defenses against evolving cyber threats, ensuring secure and resilient storage operations.



Privileged Access Security

Secure and control privileged access to FlashArray and FlashBlade, preventing unauthorized actions and reducing security risks.



Automated Credential Rotation

CyberArk CPM automates password rotation for privileged accounts, ensuring compliance, reducing exposure, and mitigating cyber threats.



Policy-Driven Security

Enforce strict access control policies, automate privileged credential management, and secure storage access for FlashArray and FlashBlade.

CyberArk PAM Integration with Pure Storage FlashArray and FlashBlade

CyberArk's self-hosted Privileged Access Management solution integrates seamlessly with Pure Storage FlashArray and FlashBlade to secure the management of privileged credentials and sessions for critical storage systems. Leveraging CyberArk's CPM and PSM, the integration automates credential rotation, enforces security policies, and monitors privileged sessions. This ensures that privileged passwords are securely managed, updated, and user activities are recorded for compliance purposes.

The setup involves configuring specialized CPM and PSM plugins for Pure Storage, which enable secure communication between CyberArk and Pure Storage systems, ensuring credentials remain protected. Credentials are encrypted in CyberArk Vault using strong algorithms like AES-256 and are delivered securely over SSL/TLS channels, ensuring confidentiality in transit. Once integrated, the solution centralizes policy enforcement, mitigates unauthorized access risks, and simplifies audit and compliance efforts. This robust approach enhances storage security and reduces operational complexities.

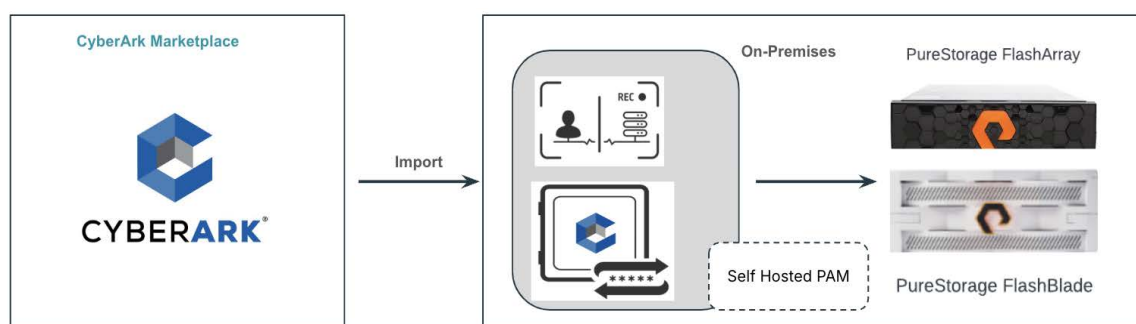


FIGURE 1 CyberArk PAM Integration with Pure Storage FlashArray and FlashBlade

How Privileged Access Management Prevents Unauthorized Access

The integration of CyberArk's Privileged Access Management solution with Pure Storage FlashArray™ and FlashBlade® provides a robust defense against unauthorized access by centralizing control over privileged credentials and access pathways. When administrators or authorized users need to access Pure Storage systems, they authenticate through CyberArk PAM, which securely manages and rotates credentials using the Central Policy Manager. This ensures that privileged passwords are never exposed to users and are regularly updated, reducing the risk of credential compromise.

Access to Pure Storage systems is facilitated through the Privileged Session Manager, which establishes secure, monitored sessions without exposing actual credentials. The PSM enforces strict access policies, granting users only the permissions necessary for their roles. All activities during these sessions are recorded, offering complete visibility into user actions and enabling auditability for compliance. By managing credentials and controlling access points, the integration effectively blocks unauthorized users—even those with stolen credentials—from accessing Pure Storage systems.

In the event of a credential breach, the integration ensures attackers cannot exploit compromised credentials. Frequent password rotation, multi-factor authentication, and session isolation combine to render stolen credentials unusable. Since actual passwords are securely stored within CyberArk and remain unknown to users, any attempt to bypass the PAM controls is immediately thwarted. This unified approach ensures that only authenticated and authorized personnel can access critical storage infrastructure. By safeguarding sensitive data and maintaining system integrity, the integration helps organizations meet stringent security and compliance requirements while mitigating the risks of evolving cyber threats.



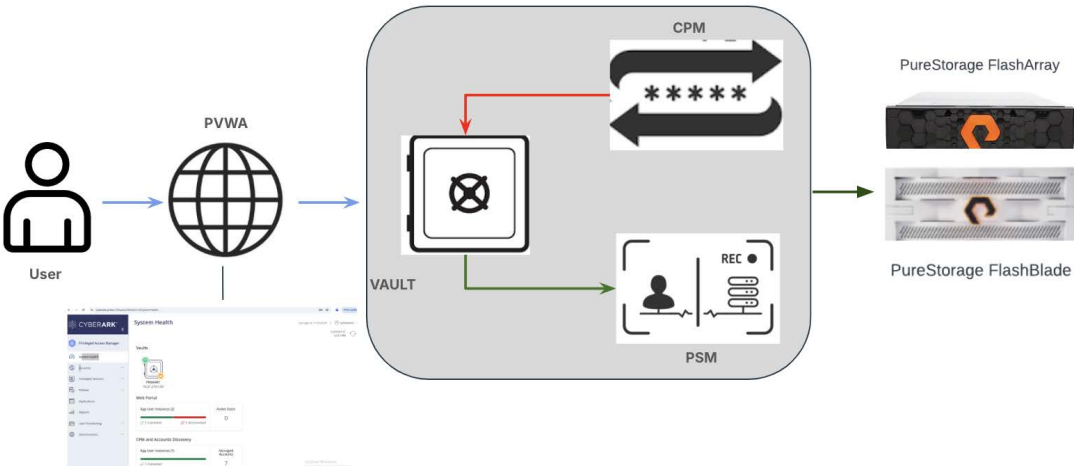


FIGURE 2 CyberArk PAM secure access

Use Case Scenarios

The following table lists common use case scenarios for Pure Storage and CyberArk integration.

Target	Action	Description	Use Case
Flash Array and Flash Blade	Automated credential management	CyberArk CPM automates the rotation and management of privileged credentials for accessing FlashArray and FlashBlade systems, ensuring compliance with security policies, preventing password exposure, and enhancing the overall security posture.	Automatically rotate privileged account passwords for administrators accessing FlashArray and FlashBlade systems, reducing the risk of credential compromise, ensuring policy compliance, and securing access against cyber threats while lowering administrative burden.
	Secure session establishment	CyberArk PSM facilitates secure and monitored sessions for privileged users accessing FlashArray and FlashBlade systems, ensuring that credentials remain protected and only authenticated, authorized personnel can perform operations.	Enable secure, monitored sessions for storage administrators managing FlashArray and FlashBlade systems, ensuring session logging, compliance with audit requirements, and real-time monitoring with enforcement of role-based access policies.
	Session recording and monitoring	PSM records all privileged sessions for FlashArray and FlashBlade systems, providing detailed audit trails for compliance and forensic analysis.	Monitor and record all actions performed on FlashArray and FlashBlade systems during privileged sessions to detect unauthorized activities and meet audit requirements.
	Detailed audit trails	PSM captures a complete record of user activities on FlashBlade during privileged sessions, supporting compliance and security analysis.	Provide full session logs for regulatory compliance and help identify suspicious or unauthorized actions taken on FlashBlade systems.



About CyberArk PAM

CyberArk is the global leader in identity security, specializing in protecting privileged access to critical assets across hybrid and multi-cloud environments. Innovative solutions from CyberArk empower organizations to defend against cyber threats by proactively managing privileged credentials, controlling access, and continuously monitoring privileged activities.

Renowned for its commitment to cybersecurity excellence, CyberArk enables businesses to meet stringent compliance requirements, mitigate risks, and safeguard sensitive data from both insider and external threats. Trusted by over half of the Fortune 500, CyberArk delivers unparalleled security, operational efficiency, and peace of mind to organizations worldwide.

About Pure Storage

Pure Storage offers a cloud experience that empowers every organization to maximize their data's potential while minimizing the complexity and cost of managing the underlying infrastructure. Our commitment to providing true storage as-a-service enables customers to adapt to evolving data needs rapidly and efficiently, whether deploying traditional workloads, modern applications, containers, or more.

We believe we can significantly reduce data center emissions worldwide through our environmental sustainability initiatives, which include designing products and solutions that help customers decrease their carbon and energy footprint. With a certified customer satisfaction score in the top one percent of B2B companies, our continuously growing list of customers ranks among the most satisfied in the world.

Additional Resources

- Discover Pure Storage [data protection solutions](#).
- Pure Storage and CyberArk [marketplace](#).
- Explore foundational use cases to [understand PAM capabilities](#)
- Read why CyberArk [PAM Matters](#).

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