



ENTRUST

Entrust KeyControl Vault for PASM

Manage SSH access across on-premises and cloud environments

Overview

Privileged accounts pose a significant risk to your organization. Hackers and malicious insiders can gain access to critical systems and steal sensitive data or cause service disruption. To further add to the risk, privileged accounts and associated access rights are not just granted to employees, but also to vendors, contractors, business partners, and other personnel.

To protect access to privileged systems, Secure Shell, commonly referred to as SSH, is an industry standard protocol used by IT professionals to secure remote login to such systems. Strong cryptographic algorithms protect the security and integrity of the communication channel.

KeyControl Vault for Privileged Account and Session Management (PASM) ensures privileged accounts are protected by vaulting their credentials. Organizations control SSH access and usage of administrative and privileged accounts, recording privileged user activity across virtual, cloud, and physical environments.

With Entrust KeyControl Vault for PASM, businesses can give security teams control through centralized visibility and policy enforcement, simplifying the management of SSH access by leveraging corporate identity and access management (IAM) solutions.

KEY FEATURES

- Authentication, authorization, and audit control for SSH access with policy enforcement
- Integration with Active Directory (AD) and OpenID Connect (OIDC)/SAMLv2 identity providers
- Protection of SSH keys using FIPS 140-2 Level 1 certified assurance
- On-demand and scheduled SSH key rotation
- SSH session recording in text format
- SSH session alerting with command filtering
- Audit data and forensic evidence to support compliance and investigations.
- Deployed as a virtual appliance
- High-availability (HA) support with active-active cluster

[Learn more about KeyControl at entrust.com](https://www.entrust.com)



Entrust KeyControl Vault for PASM

BENEFITS

Protects SSH access

Achieve authentication, authorization, and audit control (AAA) security for all SSH access:

- Assign SSH access privileges to users and groups.
- Enable Active Directory or OpenID Connect (OIDC) Authentication.
- Control access to remote hosts using policy-based access control.
- Utilize SSH keys to authenticate to remote hosts.
- Control and audit SSH access to machines.

Reduces key risks and meets compliance requirements

Centrally manage and control SSH keys in multi-cloud environments:

- Import, protect, rotate SSH keys in an encrypted vault.
- Reduce key sprawl by getting centralized control and visibility of all SSH keys.
- Reduce key risks by ensuring continuous compliance with security standards and best practices.

Records sessions and ensures that no unauthorized change is made

Create a complete record of the user's activity and block unauthorized commands during a privileged session:

- Block specific commands during a session using regular expressions.
- Provide a complete audit trail including the user connection, disconnection, and actions performed during a remote session.
- Export the session recording as a PDF file.



Entrust KeyControl Vault for PASM

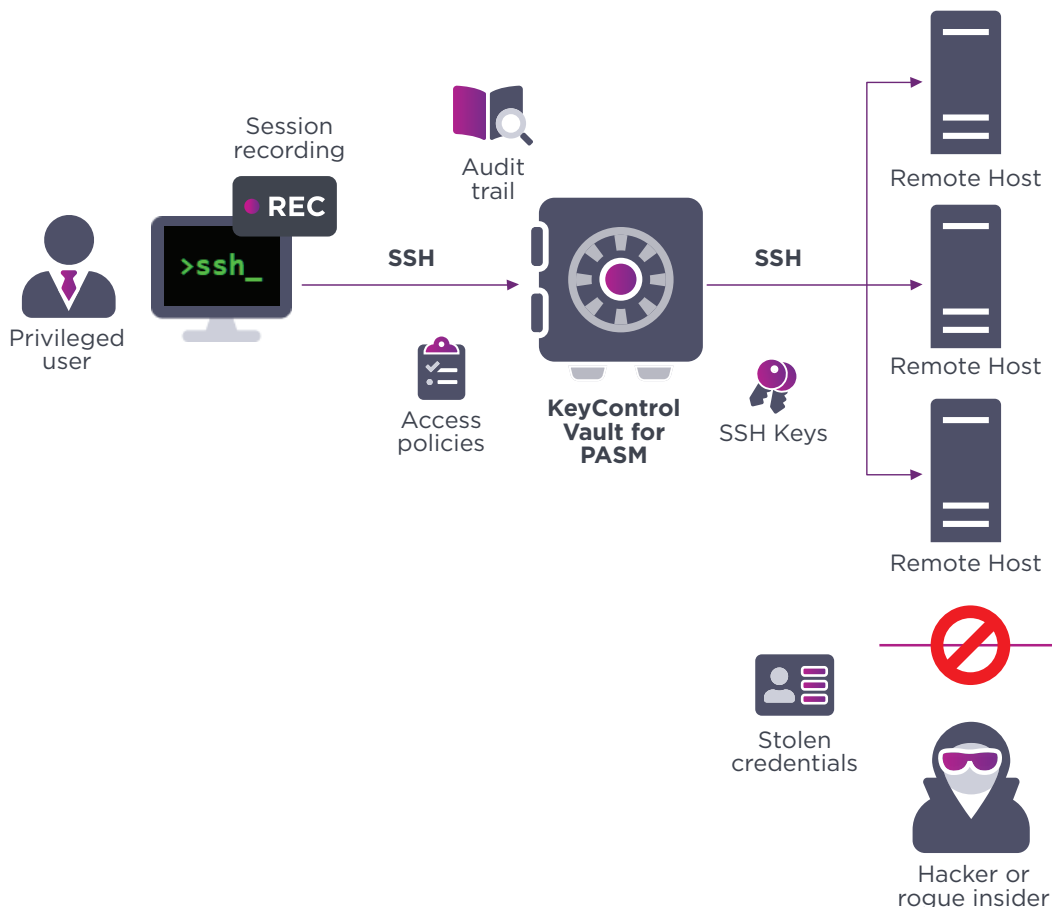
How does it work?

Entrust KeyControl Vault for PASM centrally manages and enforces access control to servers and systems based on user identity. End-users are authenticated and provided SSH access according to access control policies. All user activity on remote hosts is recorded. The solution requires no agents on the target systems, and therefore has zero footprint on remote hosts.

From the end-user's point of view, accessing a remote host is done using any SSH client.

1. The user logs into KeyControl Vault for PASM using their Active Directory or vault credentials.
2. The vault connects to the remote host without divulging any privileged credentials.
3. Once logged in, the user issues commands on the remote host.
4. When finished the user ends the session.

All user activity on the remote host during the session is recorded by the vault.





Entrust KeyControl Vault for PASM

HIGHLIGHTS

Reduce the burden of SSH access and key management

SSH keys are continuously being created along with the creation of new workloads without any controls over when or how these keys are used. Managing SSH keys for numerous users and environments can be a painful and time-consuming job for infrastructure administrators.

KeyControl Vault for PASM can ease the burden of controlling SSH access and managing SSH keys by leveraging corporate IAM systems for user authentication and authorization. This enables automatic provisioning of privileges based upon group membership.

All SSH access privileges can be automatically revoked if a system administrator changes roles or leaves the company. Finally, the vault removes the constraint of having to distribute SSH keys to end-user desktops and can automatically rotate keys based on corporate security policy.

Comply with audit requirements

Meeting audit and compliance requirements does not only entail the auditing of all access to critical systems but also necessitates keeping track of what actions are carried out on remote systems.

For instance, the U.S. Federal Information Security Management Act (NIST SP 800-53r4 AC-2, AC-17 and AU13) specifies the need “to monitor the use of account and remote access methods, authorize each type of remote access, route remote accesses through authorized and managed network access control points and ensure that audit records contain necessary information to support the auditing function.”

Beyond access control, the vault provides a complete recording of the user’s activity during the SSH session. SSH recordings are provided in a searchable format and can be exported for audit or compliance purposes.

Session recordings are securely and centrally stored to make audit activities straightforward, ensure accountability, and improve compliance.

Prevent or reduce the consequences of system compromise

If an attacker gains access to your virtual machines, they can control the applications running there, all local data, and any connected machines and systems.

Entrust KeyControl Vault for PASM can track access of sensitive information that might have been exfiltrated or actions carried out on critical systems that resulted in outages, helping to reduce the impact of an attack and the time to resolve an issue.

Each command in the privileged session is audited and can be forwarded to a SIEM. Moreover, the vault has the capability to block specific commands, limiting the ability of attackers to cause damage on IT systems.

[Learn more about KeyControl at entrust.com](https://www.entrust.com)



Entrust KeyControl Vault for PASM

HIGHLIGHTS

Forensic Investigation and root cause analysis

Audit data is captured to support problem resolution as well as for forensic investigation. Session recordings facilitate quicker root cause analysis, shortening the recovery time from outages and server failures. Session recordings are searchable and allow users to search for specific text strings (e.g., find the sessions where a specific file was modified).

Technical Specifications

Supported Unix/Linux operating systems:

- CentOS, Red Hat Enterprise Linux, Ubuntu, SUSE Linux Enterprise Server, Oracle Linux, Amazon Linux

Supported protocols and client:

- All SSH versions and clients

Authentication methods:

- Local password authentication
- Active Directory and LDAP authentication

Management and monitoring:

- Centralized management with Web UI and RESTful API
- Syslog and Splunk integration

Supported hypervisors for the KeyControl vault:

- VMWare ESXi 7.0 (HW version 17) and above
- Red Hat KVM 7.8 and above
- AWS, Azure and GCP (latest Entrust version available in the marketplace)

VMware Solution (AVS), Google Cloud Platform (GCP)

- Hypervisor support: ESXi, AWS, Azure, KVM, Google Cloud Platform

Deployment media:

- ISO, OVA (Open Virtual Appliance), AMI (Amazon Web Services Marketplace), or VHD (Microsoft Azure Marketplace)

Certifications:

- FIPS 140-2 Level 1 Certified
- FIPS 140-2 Level 3 compliance via Entrust nShield HSM on premises or as a service



Entrust KeyControl Vault for PASM

Entrust KeyControl Platform

Entrust KeyControl Vault for PASM is part of a suite of products designed to manage key lifecycles at scale for encrypted workloads in virtualized environments across on-premises, multi-cloud, and hybrid deployments.



KeyControl

Enterprise Key Management & Compliance Platform



KeyControl Compliance Manager

Global Compliance Dashboard - Policy Enforcement - Granular Key Inventory - Audit/Risk



KeyControl Vaults

(Key & Secret Management) to meet organizational or regulatory mandates



Database
Vaults



KMIP
Vaults



Cloud Key
Management
Vaults



Privileged
Account
Session
Management
(PASM)
Vaults



Tokenization
Vaults

For more details on the KeyControl platform, KeyControl Compliance Manager, and the range of vaults download the [Entrust KeyControl Solution Brochure](#).



Learn more at
[entrust.com](https://www.entrust.com)



Entrust, nShield, and the hexagon logo are trademarks, registered trademarks, and/or service marks of Entrust Corporation in the U.S. and/or other countries. All other brand or product names are the property of their respective owners. Because we are continuously improving our products and services, Entrust Corporation reserves the right to change specifications without prior notice. Entrust is an equal opportunity employer. © 2023 Entrust Corporation. All rights reserved. HS23Q4-keycontrol-compliance-manager-ds

Global Headquarters
1187 Park Place, Minneapolis, MN 55379
U.S. Toll-Free Phone: 888 690 2424
International Phone: +1 952 933 1223