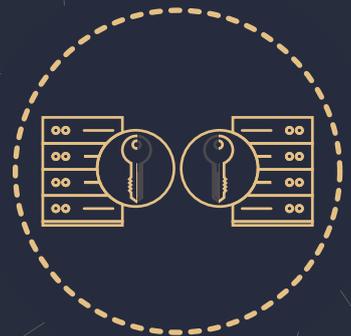# UNB( )UND

(MATH OVER MATTER)

SECURE PRIVILEGED KEYS:
A JOINT SOLUTION BY UNBOUND AND CYBERARK

The Problem

Encryption keys are considered the keys to the digital kingdom, as they are used to secure enterprises' most valuable information. With CyberArk Privileged Access Security, if attackers are able to compromise keys, the result would be unauthorized access to thousands of privileged user accounts, thus allowing malicious attackers to perform unsanctioned operations and exfiltrate an organization's most sensitive data.

The Solution

CyberArk Privileged Access Security, together with Unbound Key Control, discovers and onboards privileged accounts while ensuring that the keys that protect user credentials are never kept whole anywhere. Unbound implements multi-party computation (MPC) to create and use the fragmented keys without ever unifying them in a method mathematically proven to be impossible to a breach or hack by compromising any single location.
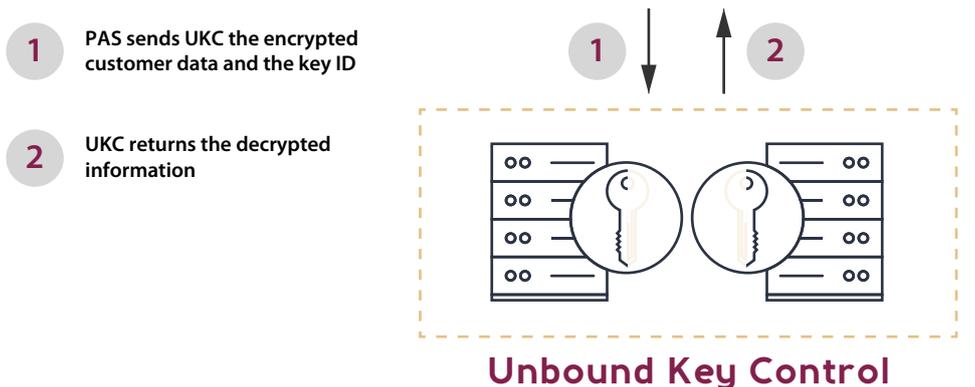
Highlights

- Mathematically proven security guarantee – the key material never exists in the clear throughout its lifecycle including creation, in-use and at-rest.

- Multi-site, Multi-Cloud Hybrid IT support: control and manage keys anywhere – on-premise, in the cloud – any cloud service provider.

Safeguarding Privileged Access Security Keys

The CyberArk Privileged Access Security Solution is the industry's most complete solution for protecting, controlling ground-up, and monitoring privileged access across on-premises, cloud, and hybrid infrastructure. Designed from the ground up for security, the CyberArk solution helps organizations efficiently manage privileged credentials and access rights, proactively monitor and control privileged activity, intelligently identify suspicious activity, and quickly respond to threats.

Based on cryptographic breakthroughs that draw strength from math (not matter), Unbound Key Control (UKC) is the first solution to offer a truly abstracted key management that meets the high levels of security previously only attainable through hardware-based perimeter-centric models. Built upon Unbound's Distributed Trust Platform, UKC can protect and manage keys across your entire decentralized hybrid cloud and geo-distributed environments without disrupting existing application workflows.

1 PAS sends UKC the encrypted customer data and the key ID

2 UKC returns the decrypted information

Privileged Access Security

1 **2**

Unbound Key Control

Joint Capabilities & Features

The Privileged Access Security Solution and Unbound Key Control eliminates this single point of compromise by ensuring that your most sensitive keys never exist in the clear at any point in their lifecycle – not even when generated, while in use or at rest.

Capabilities include:

- **Elastic and Scalable** – Discover and onboard privileged credentials with elastic and scalable enterprise key management. Allows for quick adaptation to meet your changing needs.

- **Transparent and Seamless Integration** - Completely transparent easily deployed without disrupting the existing PAS workflow.

- **Future-ready and Agile Cryptography** - Unbound Key Control is future-ready, so your cryptography infrastructure can be too. With crypto vulnerabilities uncovered regularly and the emergence of Quantum Computing, changes in crypto are happening faster than ever. Unbound provides a crypto-agile system that ensures you will be up and running the latest crypto, with update cycles measured in days to weeks, not months or years.

- **Secured Management and Administration** - Unbound Key Control allows the customization of granular admin authorization and access management policies in multiple ways. For example, you can define a minimum number of admins who must work in unison on high-security operations. Or add another layer of access security at the application level, in addition to server authorization.

- **Context-Based Auditing** - Get the full details of every decrypt or signing operation in real time whenever a key is used. Receive detailed logs that include: operation type, date and time, the servers from which the request was made, and the authorizing users. The logs can be exported to third-party tools, such as SIEM.

Unbound Products:

- Unbound Key Control

Partner Products:

- Privileged Access Security Solution

Summary

Cyber Ark and Unbound can significantly reduce your privileged access security risk with the industry's most comprehensive Privileged Access Security Solution, across your on-premises infrastructure and cloud. Unbound delivers the first enterprise-grade applications of Multi-Party Computation (MPC) to ensure superior secret protection, at a level once only possible with hardware. Together, CyberArk and Unbound place exceptional attention to the protection of the encryption keys that safeguard user credentials.

About CyberArk

CyberArk is the only security company that proactively stops the most advanced cyber threats – those that exploit insider privileges to attack the heart of the enterprise. The company has pioneered a new category of targeted security solutions to protect against cyber threats before attacks can escalate and do irreparable business damage.
To learn more, visit us at
www.cyberark.com.

About Unbound Tech

Unbound Tech equips companies with the first pure-software solution that protects secrets such as cryptographic keys, credentials or other private data by ensuring they never exist anywhere in complete form. The Unbound Distributed Trust Platform stands as a new foundation for trust using secure multi-party computation to ensure secrets are always split into multiple shares and thereby eliminate any single point of compromise. Adopted by Fortune 500 companies, Unbound's elastic and agile platform protects secrets on untrusted infrastructure and removes existing dependence on dedicated security hardware, delivering a novel approach to security and privacy designed for the digital era. Serving as an engine for uninhibited growth, it allows enterprises to gain new levels of control over their secrets on any cloud, server or endpoint, and opens new possibilities for digital innovation. Founded in 2014, Unbound has been recognized with numerous industry awards and named in multiple Gartner Hype Cycle Reports. Be Trusted. Be Unbound. Visit www.unboundtech.com.

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