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The future of privilege: Dynamic identity security in real time

April 23th 2026

Sinan Altinsoy, Solutions Engineer

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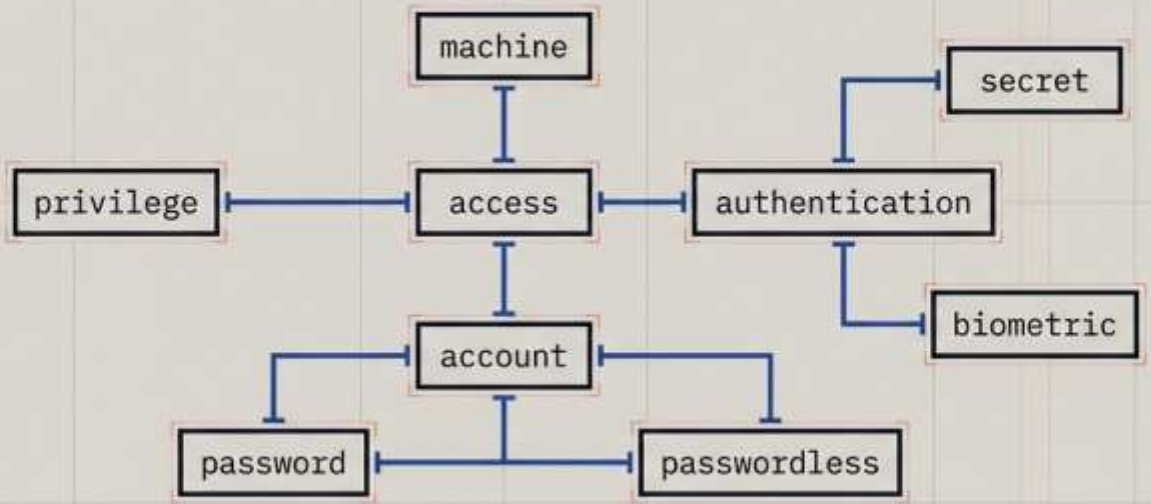
The Language of Digital Access Control



A Conceptual Primer on Modern Identity Architecture.

NotebookLM

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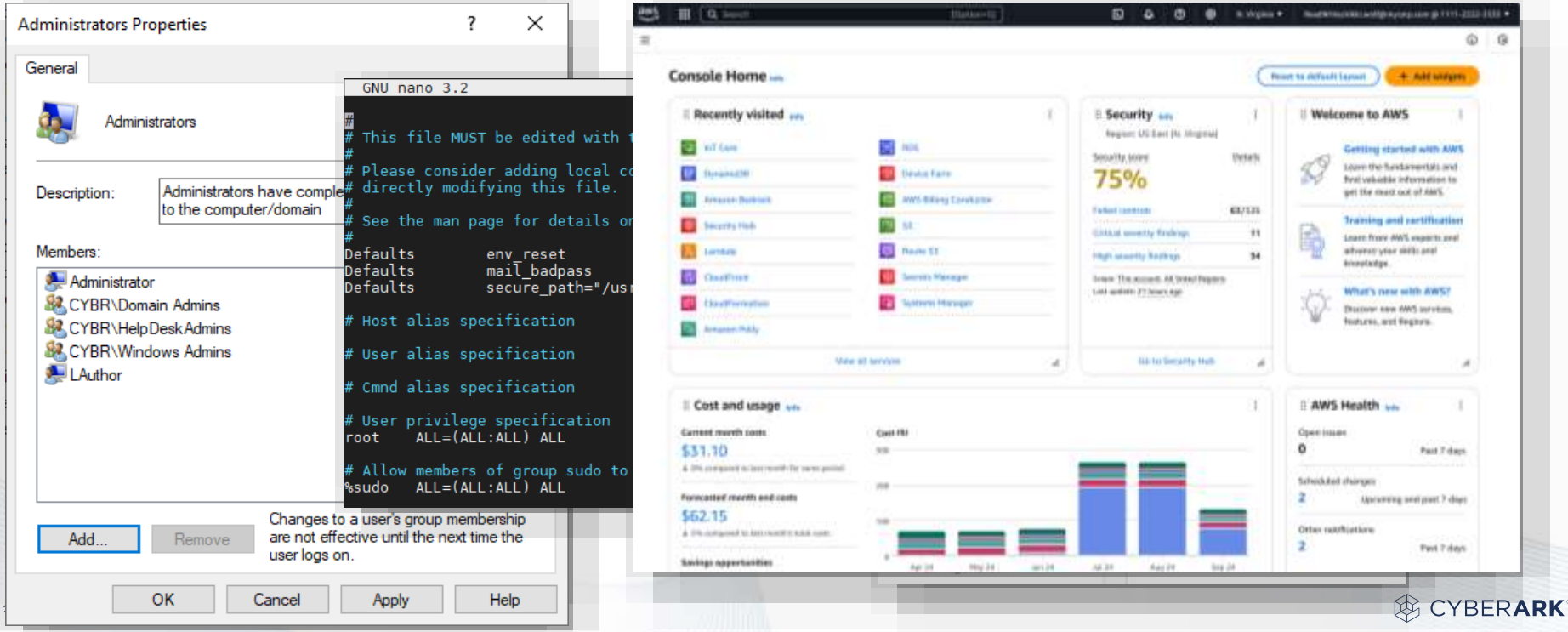
Privileged Access

In an enterprise environment, privileged access is a term used to designate special access or abilities **above and beyond that of a standard user.**



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Privileges, Identities and Risk Are Growing Exponentially

HUMANS

75%

Companies have Over-Privileged Users

Uncontrolled Privilege

MACHINES

82:1

Machines Vastly Outnumber Humans

Hidden Access to the Highest Risk Systems & Data

AGENTS

94%

Companies Lack Security Controls for AI

AI Adoption is Outpacing Controls

Identity weaknesses played a material role in almost **90%** of Unit 42 investigations over past year

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Identity Security Platform: Unified and Security First

All Identities

Human

Machine

AI

Agentic Detection & Response

Discover

- Identities
- Privileges
- Entitlements
- Context & Risk

Control

- Passwordless
- Just-in-Time
- Zero Standing Privileges
- Session Security

Govern

- Onboarding
- Access Reviews
- Lifecycle Management
- Compliance

Automated Posture & Policy

All Targets

Cloud

SaaS

On-Prem

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Platform Overview

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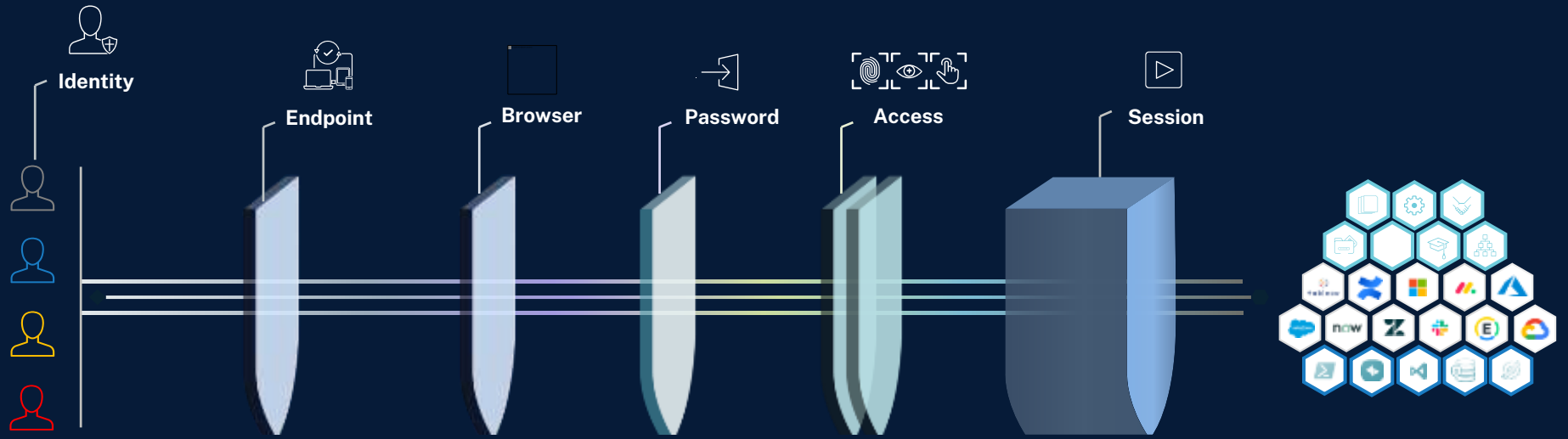
Reimagine Workforce Access: How We Do it Better



- Endpoint Privilege Manager
- Prisma Browser
- Workforce Password Management
- Secure Web Sessions

- Lifecycle Management
- Directory Services
- Identity Flows
- Identity Compliance

- Single Sign-on
- Adaptive MFA
- User Behavior Analytics
- Application Gateway

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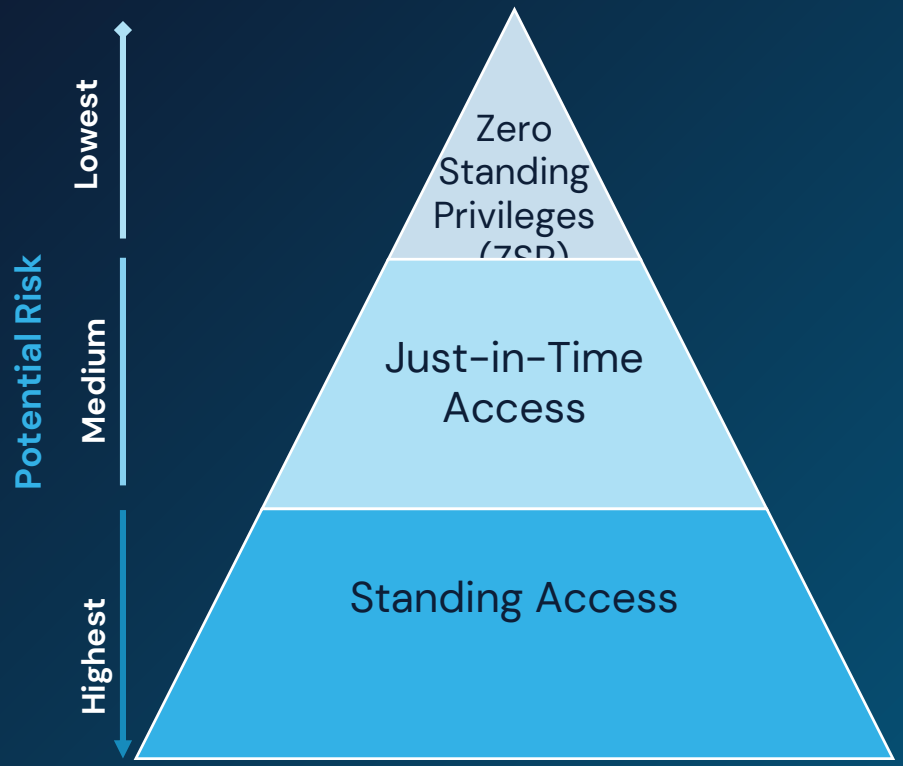
CONFIDENTIAL INFORMATION

Pragmatic Approach to Mitigating Risk



Zero Standing Privileges

- Access rights are no longer only granted just-in-time.
- Least privilege access rights are created and deleted on-the-fly for each session.

This greatly reduces risk of compromised access and impact of the access

Just-in-Time Access

- Access can only be elevated just-in-time, but at regular intervals
- There are no restrictions on commands and permissions

JIT Access reduces the risk of compromised access. But does not reduce the impact of the access.

Standing Access - Secured by PAM – Vaulted & Isolated

- User accounts always exist in target systems. Access is 24x7.
- There are no restrictions on commands and permissions

Even with Identity Security controls and approval workflows in place risk is mitigated but the risk is still present.

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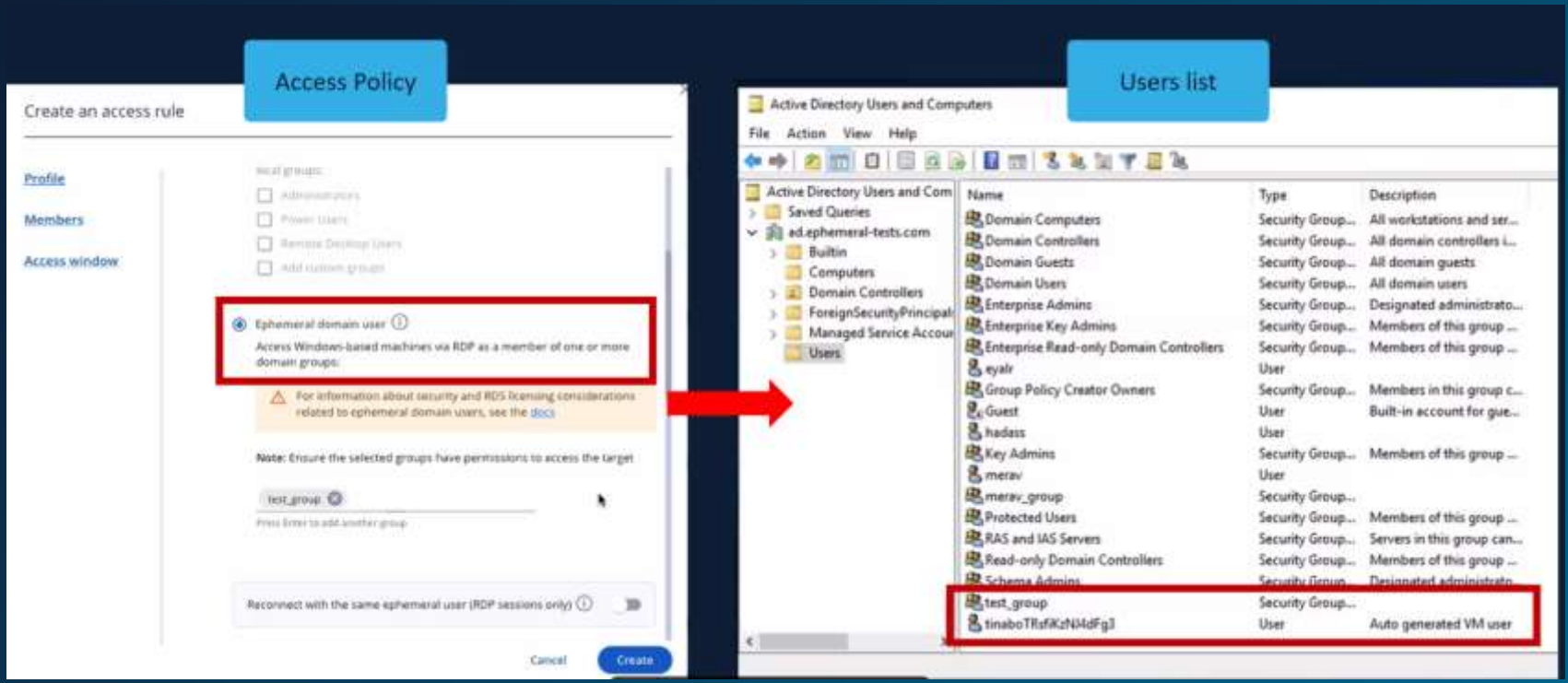
Ephemeral Domain User



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Benefits: Risk Reduction

Adopt new use cases and scale risk reduction to new environments

Prevent credential theft with Zero Standing Privileges

System access with vaulted accounts:

- Remove permissions and dynamically assign them on demand through CyberArk.
- If credentials are stolen, attackers have no permissions.

Operational access with JIT workflows:

- No standing credentials for attackers to steal.

Prevent malware spread with improved adoption

Improved UX for access to Databases and K8s and improved adoption of session isolation:

- Users connect through CLI/IDE client of choice.
- OOTB support for MySQL, MSSQL, MongoDB, PostgreSQL, Oracle, etc.

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Secure Infrastructure Access (SIA)

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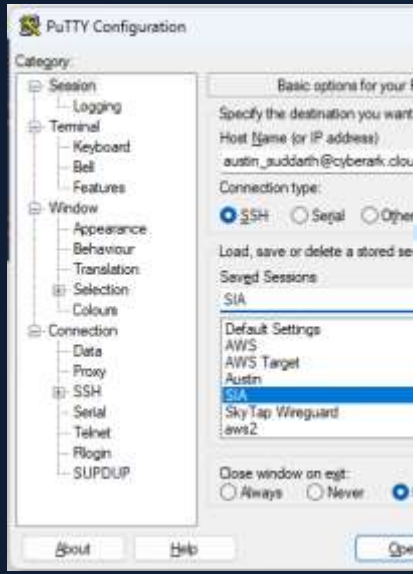
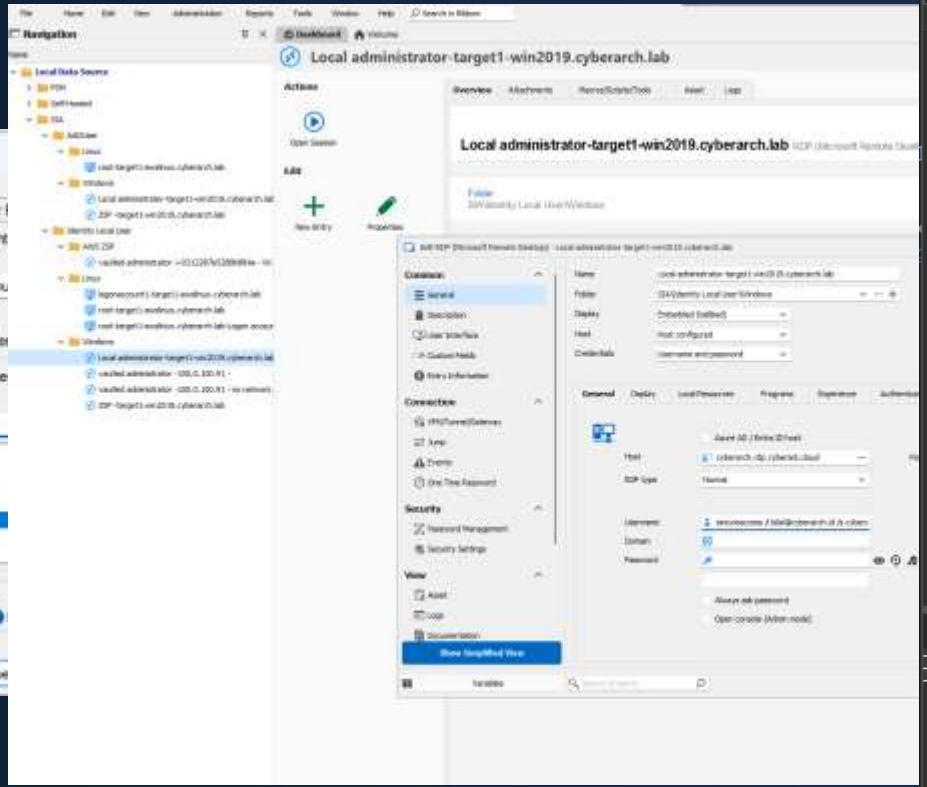
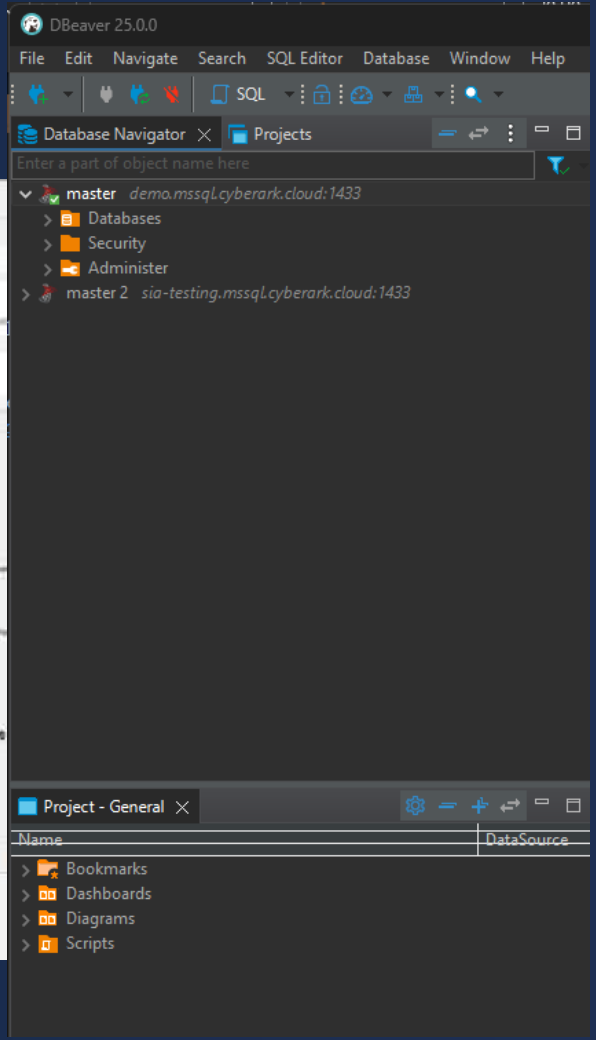
Native RDP/SSH/DB Clients







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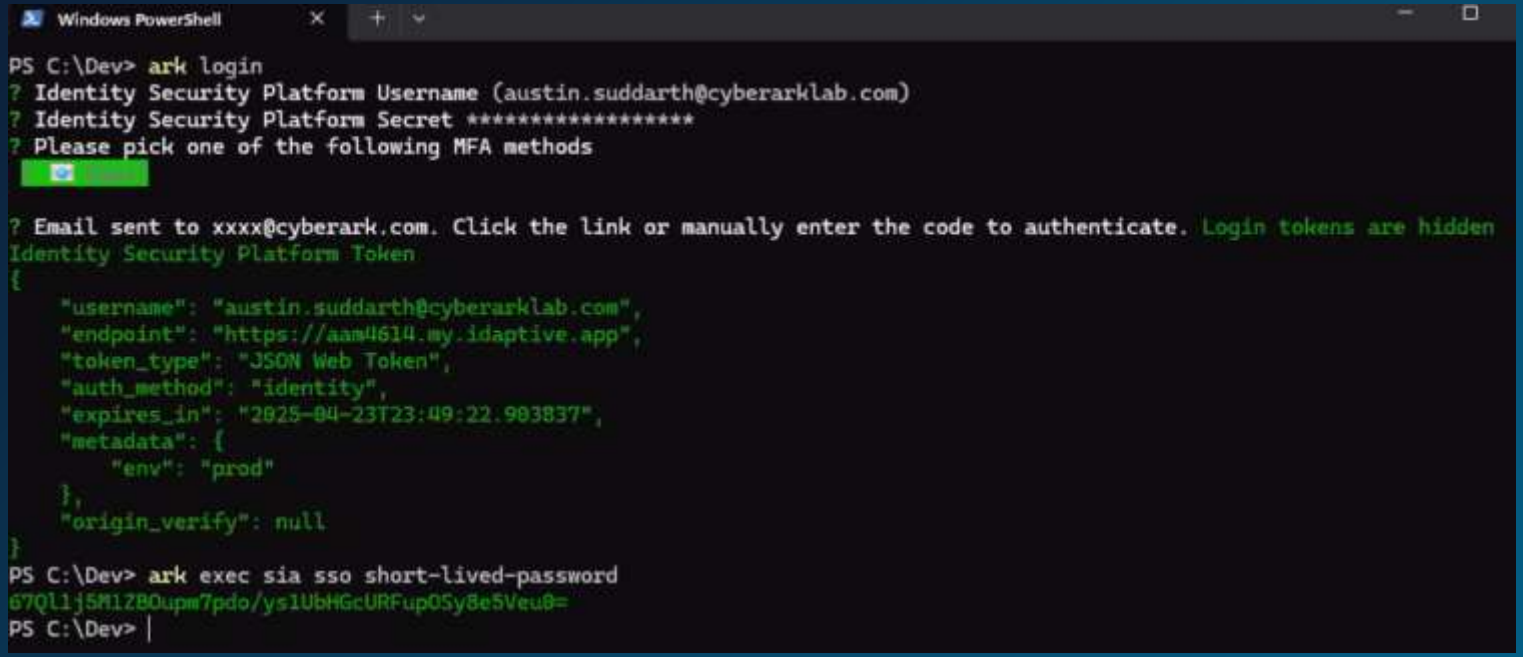
ARK CLI



Log in directly to the database: psql "host=mytenant.postgres.cyberark.cloud user=user@cyberark.cloud.12345@postgres@mypostgres.fqdn.com "

Log in to the database from Ark: ark exec sia db psql --target-username postgres --target-address mypostgres.fqdn.com

SSH: ark exec sia sso short-lived-ssh-key

RDP: ark exec sia sso short-lived-rdp-file -ta targetaddress -td targetdomain -tu targetuser

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ARK CLI | CyberArk Docs

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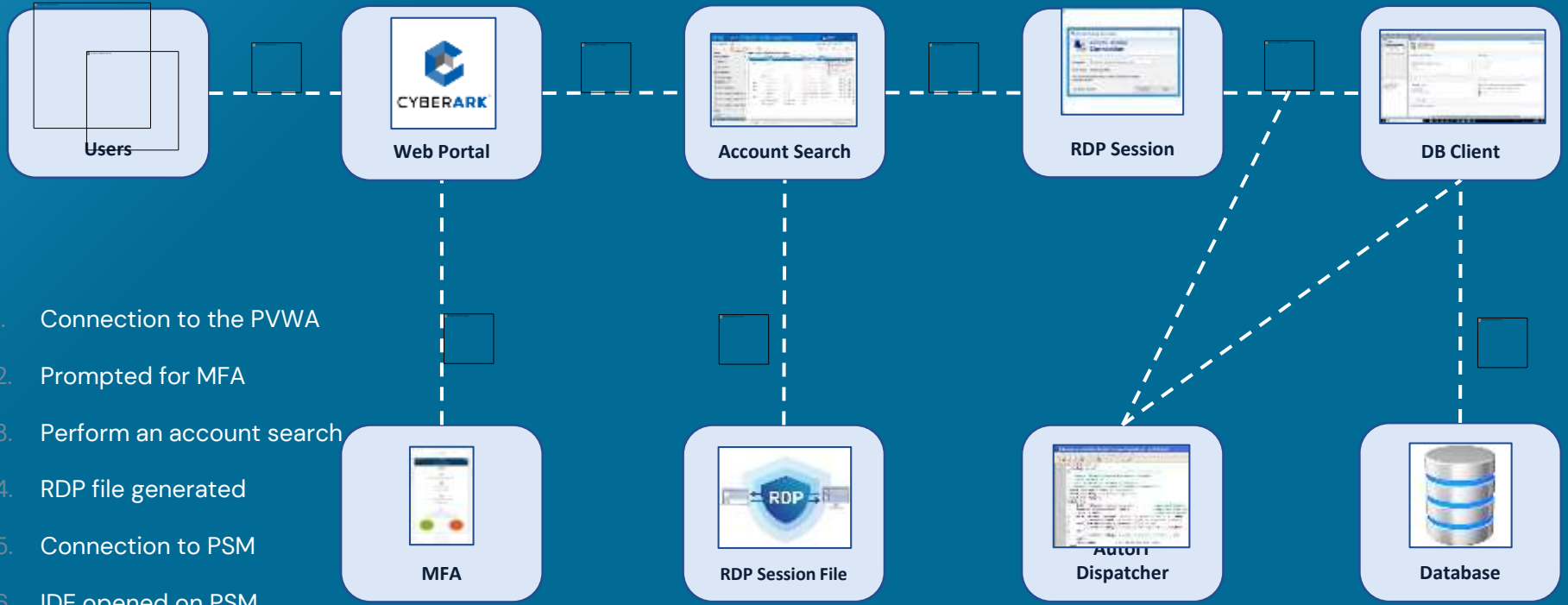
PSM Database End User Experience



1. Connection to the PVWA
2. Prompted for MFA
3. Perform an account search
4. RDP file generated
5. Connection to PSM
6. IDE opened on PSM
7. Connection to the database

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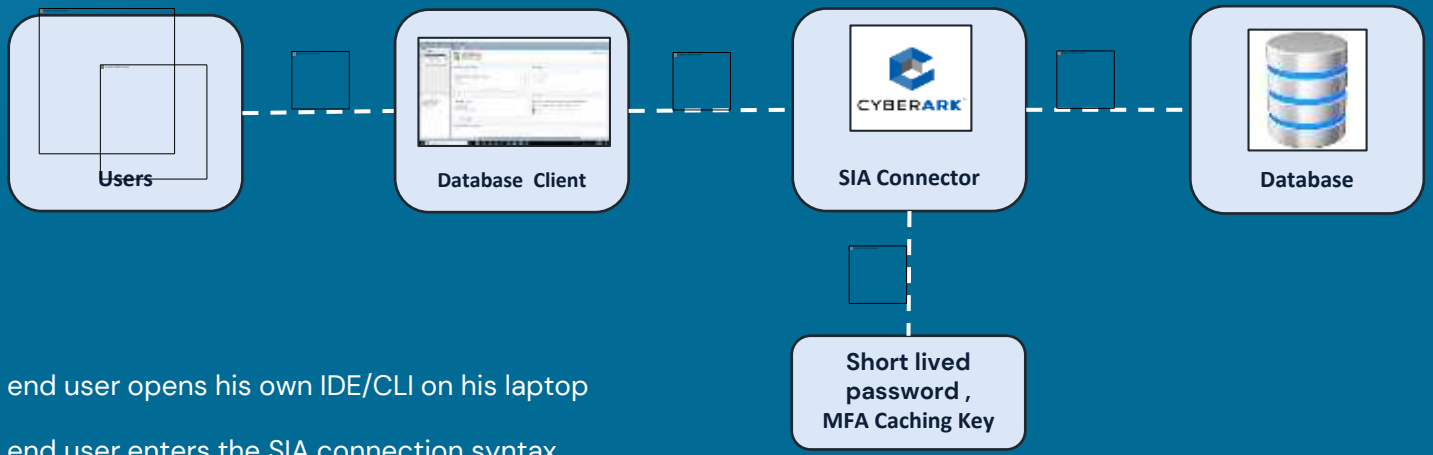
SIA Database End User Experience



1. The end user opens his own IDE/CLI on his laptop
2. The end user enters the SIA connection syntax
3. Provide DB MFA caching key/Short lived password
4. The end user is connected to the database

!ZSP is Supported

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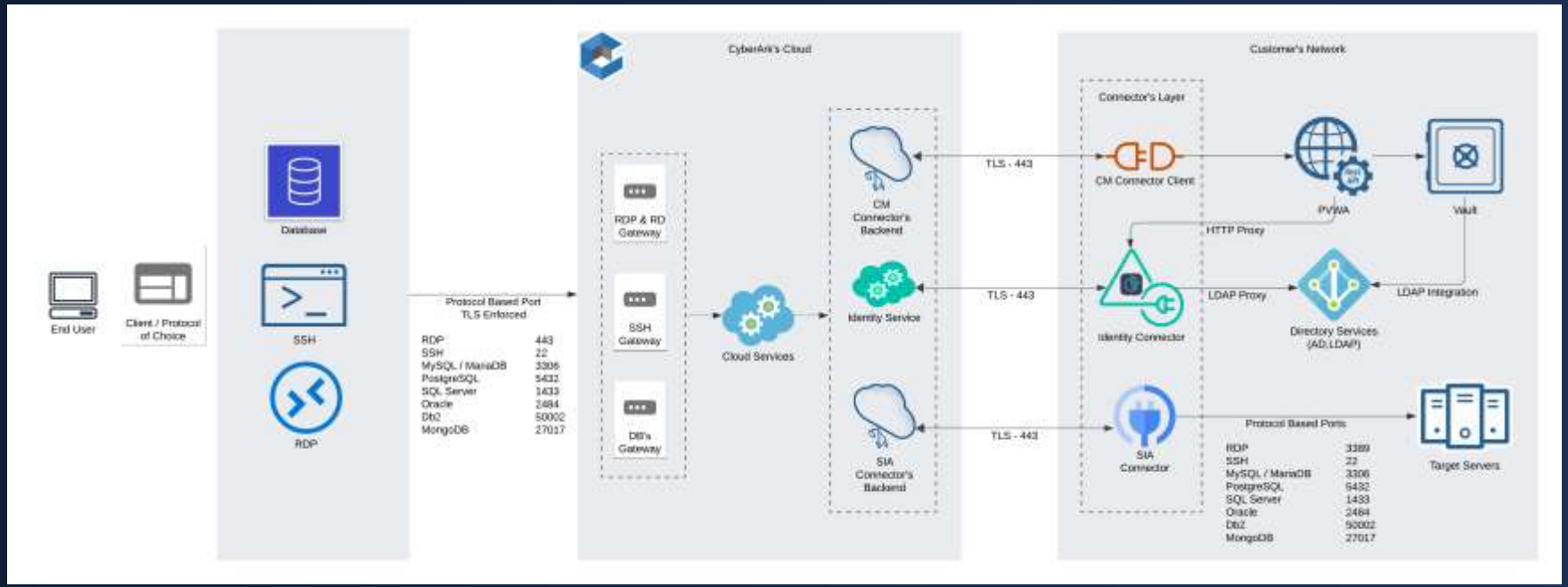
SIA Architecture



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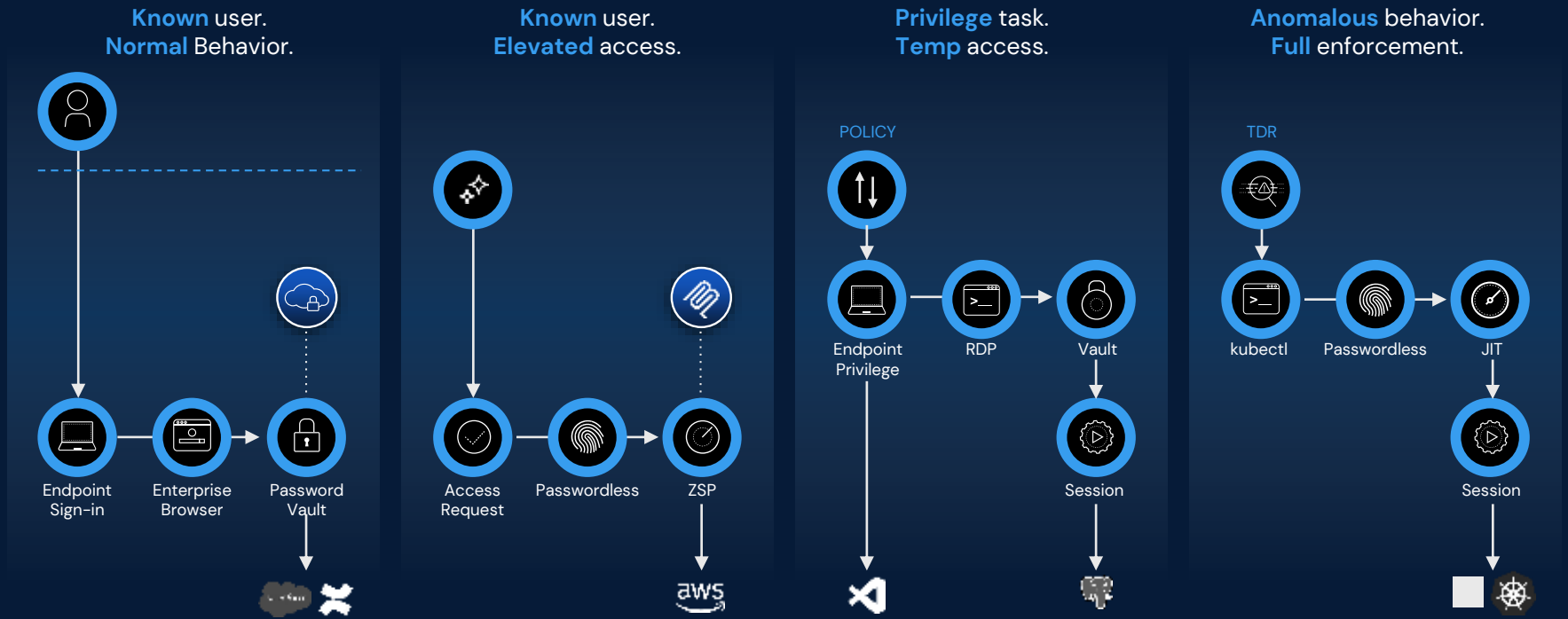
Smart Privilege Controls

Privilege Adapts to Intent, Behavior, and Risk.
Apply Privilege Controls to All, Without Slowing Work.



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Thank you

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