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The Identity Security Company™

Privileged Access Management (PAM)

Redefining Your PAM Program

István Molnár

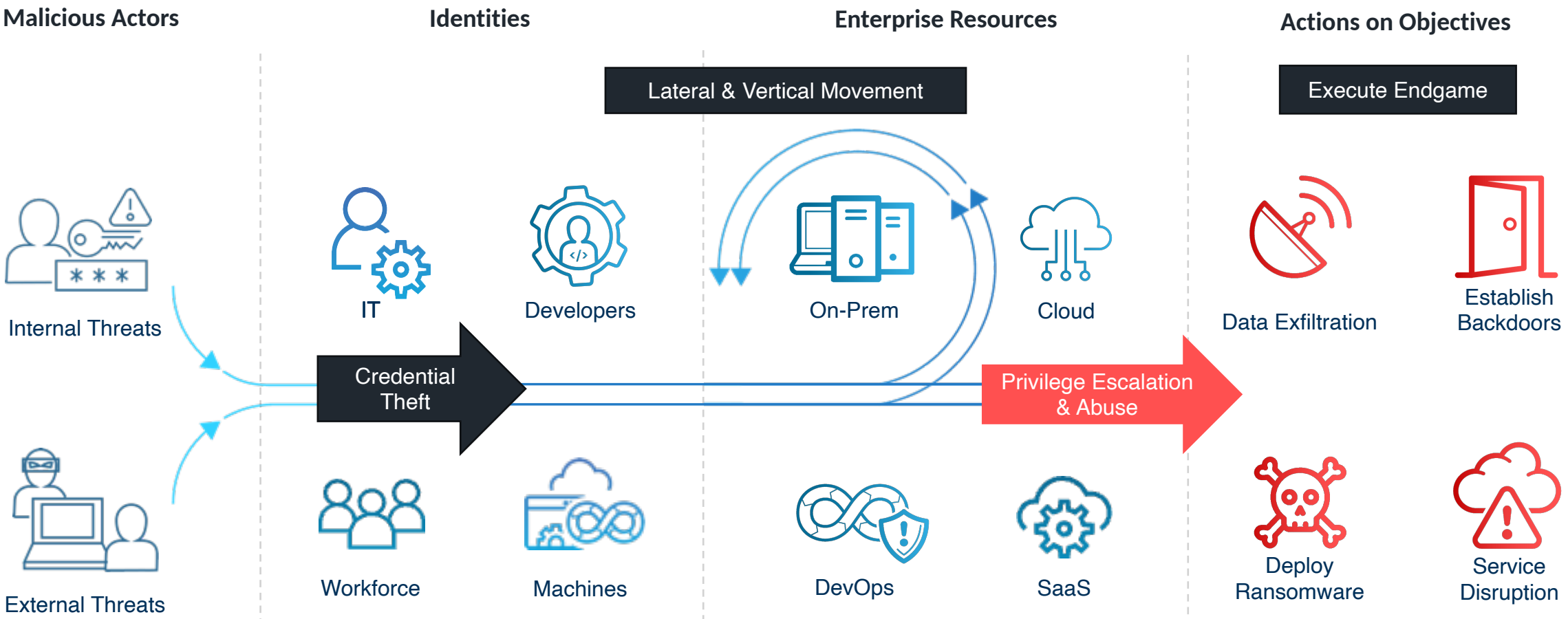
System engineer

istvan.molnar@clico.hu

Motivations for Identity Security

New Environments Create New Attack Methods

Compromised identities and credentials remain a constant target in cyber attacks.



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Understanding the Attack Chain

How do we defend against this attack path?

Identity Compromise (Credential theft)

- Single Sign-On
- Passwordless Authentication
- Adaptive Multifactor Authentication
- Session-less Cookies
- Browser Cookie Protection
- Credential Store Protection
- Complex Passwords/Secrets
- Password/Secret Vaulting
- Password/Secret Rotation
- Credential & Session Isolation
- Removal of Hard-Coded Credentials

Lateral and Vertical Movement

- Zero Standing Privilege
- Just-In-Time Access
- Role-Based Access Control
- Limit Scope of Influence (Blast Radius)
- Randomize/Unique Local Credentials
- Session Protection
- Session Isolation
- Session Monitoring & Analytics
- Identity Threat Detection & Response
- Application Control

Privilege Escalation and Abuse

- Continuous Authentication
- Time-Bound Access
- Session Monitoring & Analytics
- Audit Logging & Session Recording
- Identity Threat Detection & Response
- Privilege Analysis
- Least Privilege Enforcement
- Lifecycle Management
- Compliance Campaigns
- Application Control

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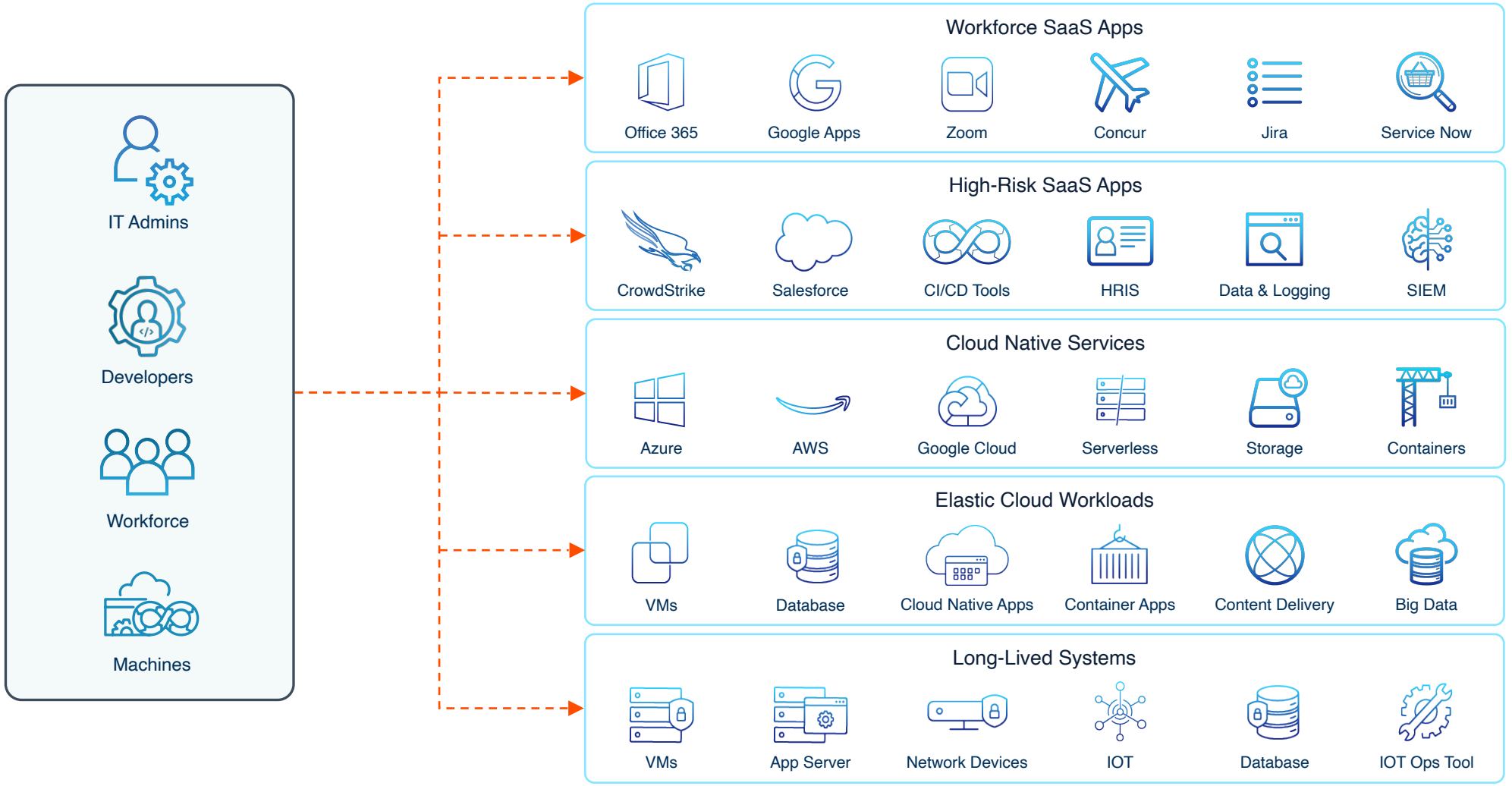
Today's Identities and Environments

New identities, new environments, new attack methods



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Securing IT personel

System Administrators

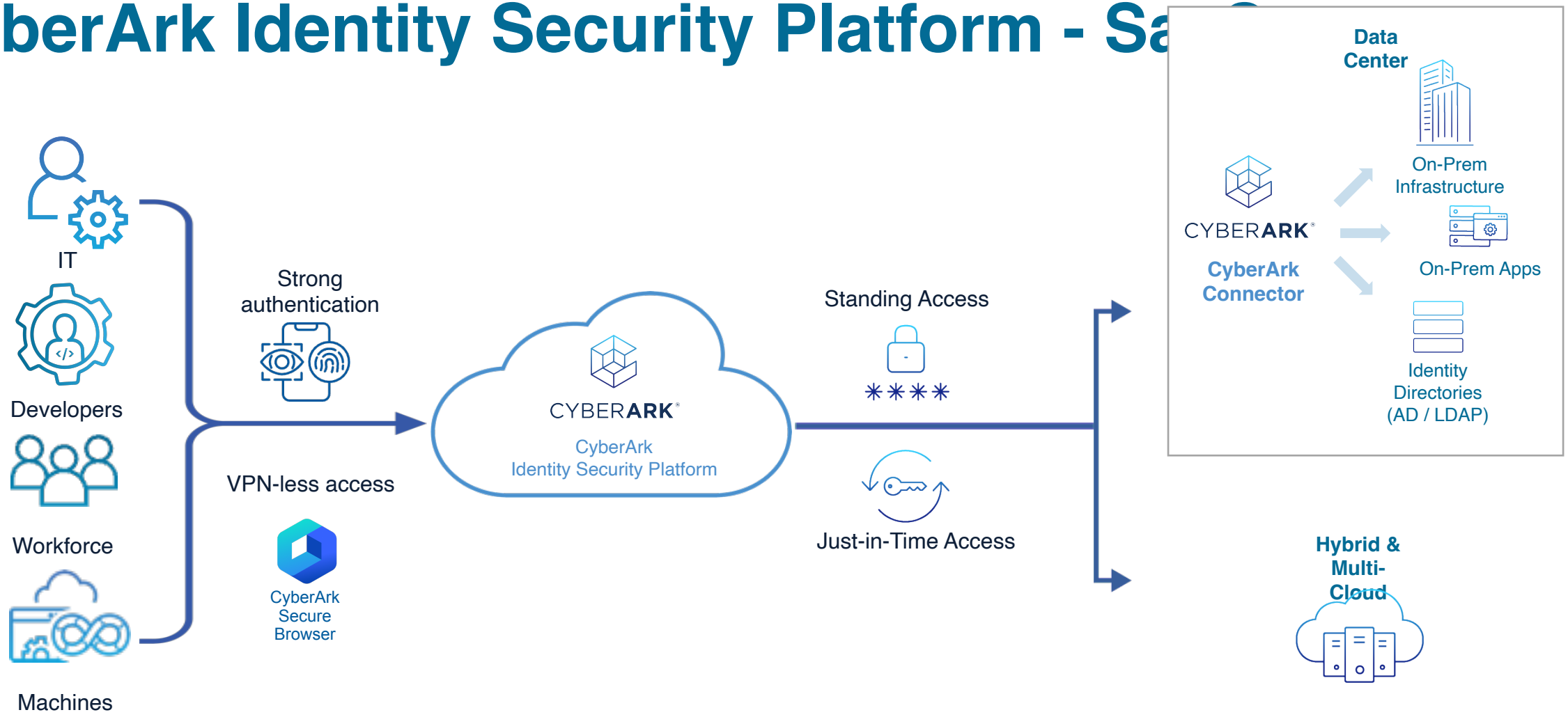
3rd parties

Cloud Ops

Security Ops

App Admins

CyberArk Identity Security Platform - Sa

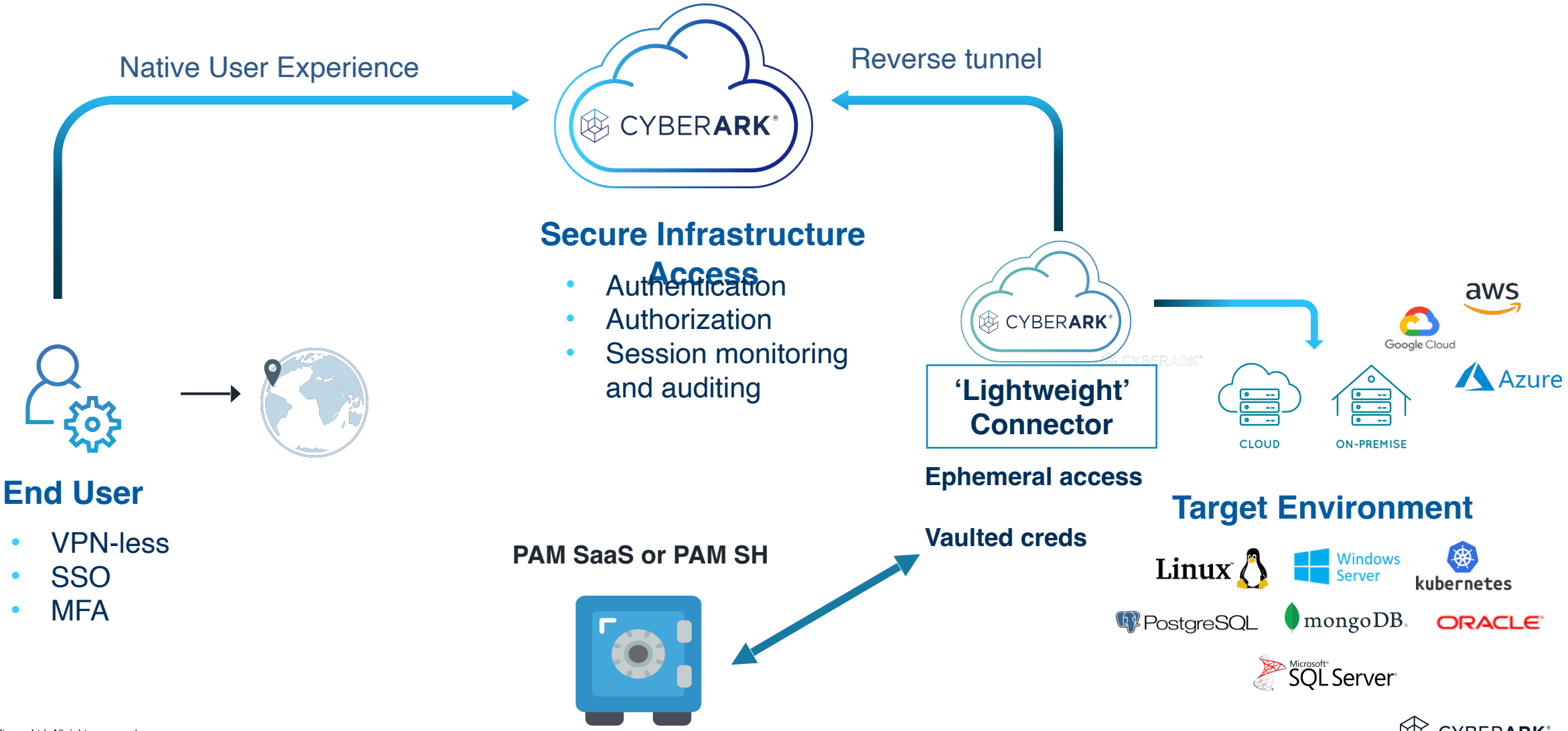


CYBERARK COMPLETE IDENTITY SECURITY

Security First Approach | AI Powered | Frictionless Experience | Everywhere

Modern PAM - Secure Infrastructure Access

Zero Standing Privileges + Vaulted credentials: VMs, Databases, K8s



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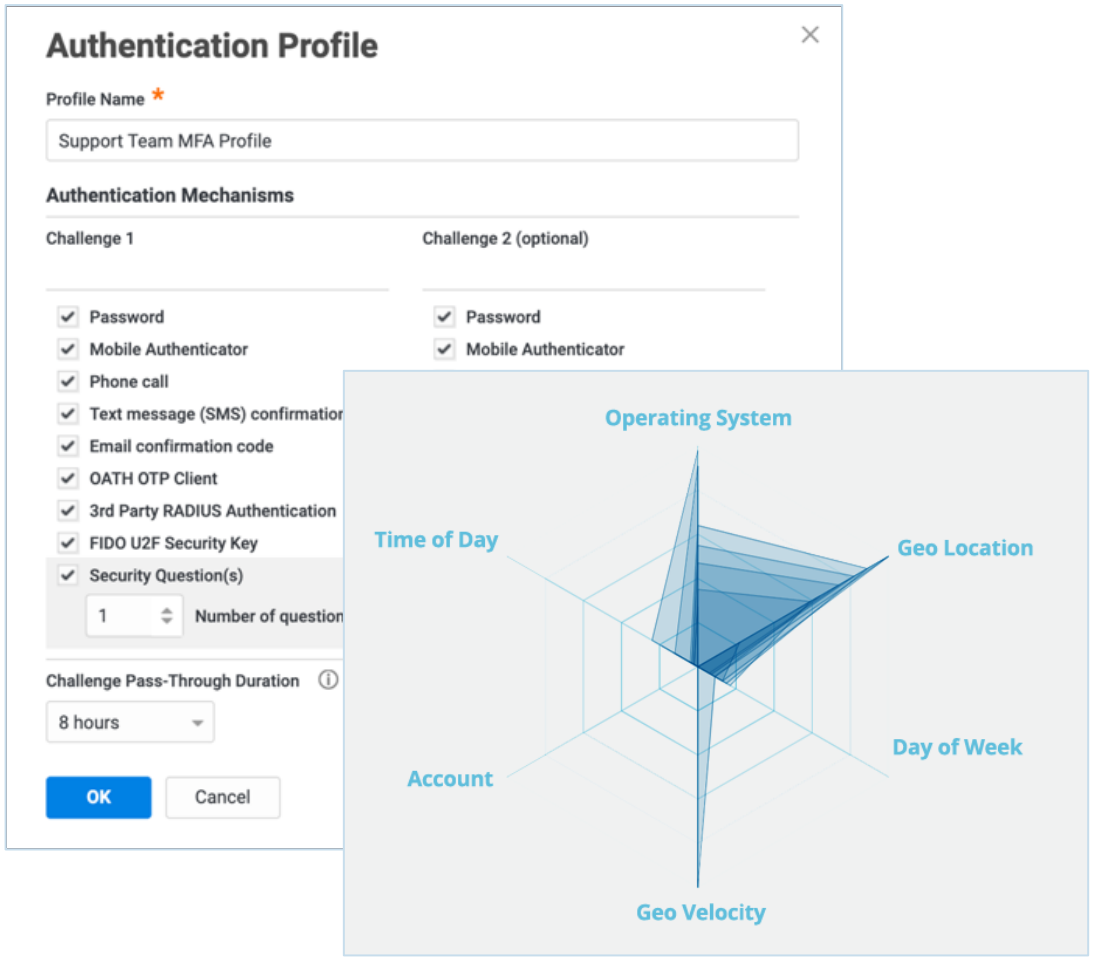
Strong Authentication - Adaptive Multifactor



Add an Extra Layer of Protection

before granting access to corporate applications

MFA EVERYWHERE

Protect a broad range of use cases and resources

AUTHENTICATION METHOD SUPPORT

Broadest choice of authentication factors, including a variety of Passwordless factors.

RISK-AWARE

Leverage machine learning for behavior-based MFA

STANDARDS BASED

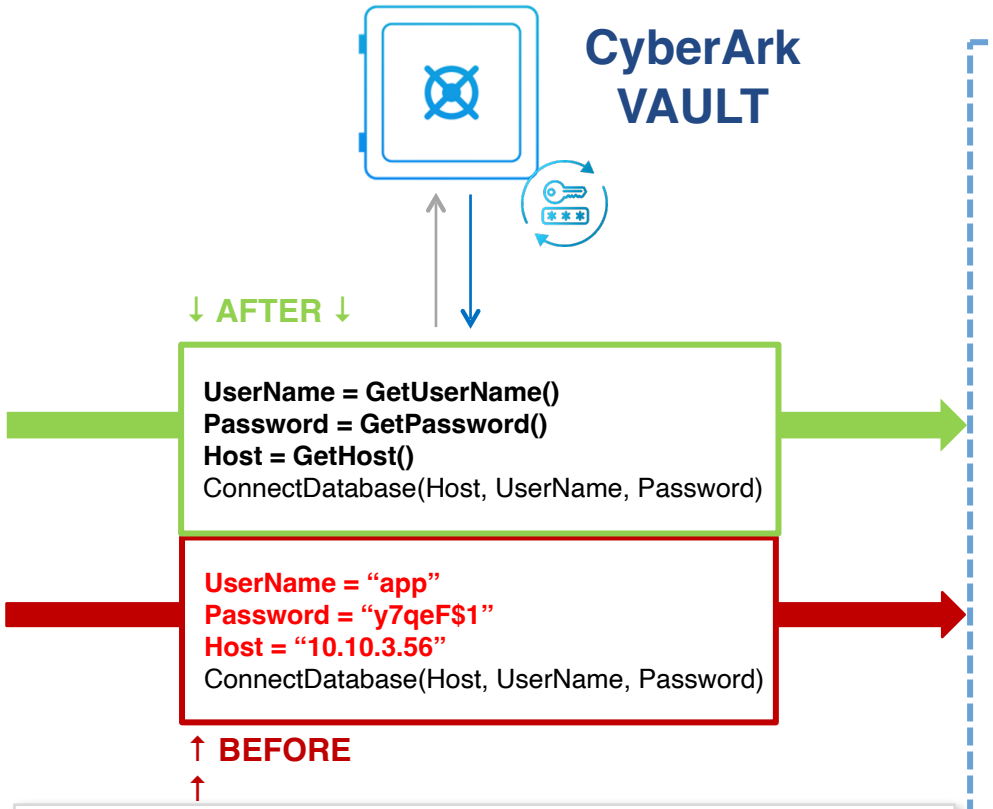
Architected for using OATH, FIDO, and RADIUS standards for out of box integrations

CyberArk Secrets Manager

Remove hard coded credentials and start rotate them

APPLICATION EXAMPLES

Type	System
Application Servers	IBM WebSphere, Oracle WebLogic, Apache Tomcat, JBoss by Red Hat
CI/CD Tools Chains	Jenkins, Chef, Ansible, Terraform
Container Platforms /PaaS	OpenShift, kubernetes, Pivotal Cloud Foundry
SDKs & Dev. Libraries	Go, Java, Ruby, Python .NET, C/C++, CLI, REST
Multiple Platforms	Windows, *nix, zOS, Cloud
RPA	Automation Anywhere, WorkFusion, blueprism, UiPath Robotic Process Automation
Security Tools	ForeScout, tenable, Qualys.
Other Third Party Applications	C3 alliance partners solution with built in integrations



- Eliminates risk from hard-coded application credentials by calling APIs
- Achieve passwords / keys rotations
- Many forms of APIs and 100+ integrations OOB

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Modern PAM - Secure Web Access

Workforce Password Management + Vaulted credentials = Secure Native Access to critical Web Apps

Native User Experience

Reverse tunnel (optional)

End User

- VPN-less
- SSO
- MFA

CyberArk Secure Browser

- Risk-based adaptive **MFA**
- **WPM** – Secure retrieve of credentials
- **SWS** – Session monitoring and protection
- **CSB** – Password Replacement

PAM SaaS or PAM SH

Web Applications

- **Cloud** Web Apps
- **On-prem** Web Apps via Identity Connector

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Modern PAM - Secure Cloud Access

Secure, native access to cloud consoles and services with ZSP across multi-cloud environments.

Native User Experience

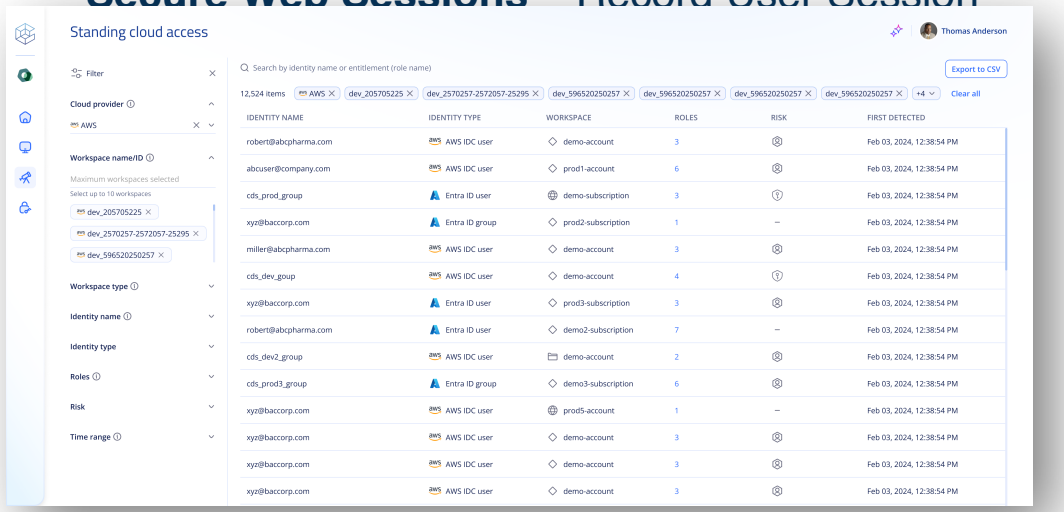
Escalates Privilege As Needed

End User

- VPN-less
- SSO
- MFA

CyberArk Secure Browser

- **Cloud Visibility –** Onboard Workspaces & run Discovery
- **Flows** – Access Request Workflow
- **Secure Web Sessions** – Record User Session



Cloud Management Consoles

- **Centralized Platform** across multi-cloud environments
- **Least Privilege** with on-demand escalation

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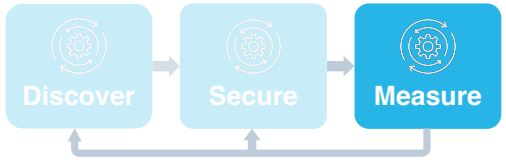
Rights control and just in time access

Measure and grow adoption with native UX; centrally audit all privileged sessions



IT Users

- WIN/*NIX Admins
- Database Admins
- IT Ops
- Help Desk
- Cloud Operations
- Security Ops
- 3rd Party Vendors

Cloud CLI or Console

RDP, SSH, DB, KubeCTL

RDP, SSH. CyberArk UI

Zero Standing Privileges (ZSP)

Access policies created then deleted for each session

Just-in-Time (JIT) Access

RBAC elevation to role, based on target system attributes

Secure Standing Access

RBAC use of vaulted credential

IT Targets

- Data Center
- OT System
- Windows Infrastructure
- *NIX Infrastructure
- Databases
- Containers
- Cloud Services
- SaaS Apps

Request access through existing approval workflows.

Centralized audit logs / recordings with AI session summaries.

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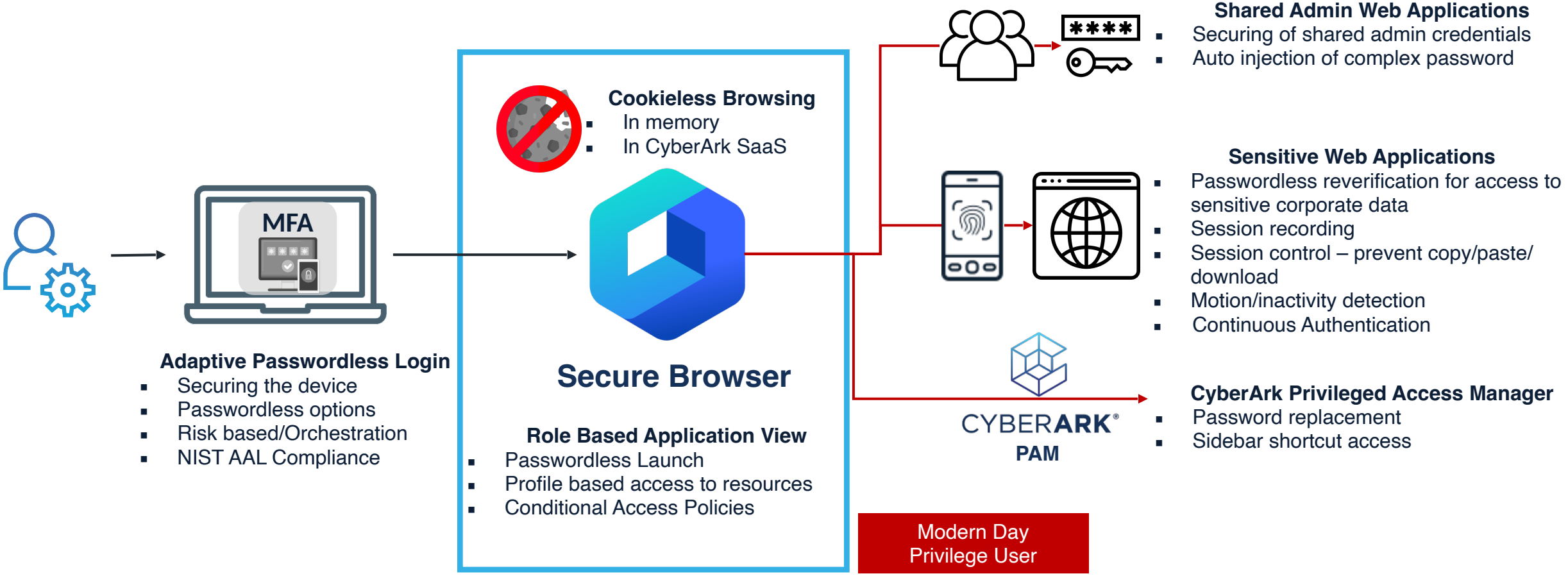
CyberArk Secure Browser

Launchpad to everything enterprise



Why CyberArk?

Leading Identity Security platform

Best of all worlds in platform

- Best of breed for individual technologies:
  - PAM – ***Gartner Leader MQ PAM 6 times in row***
  - Secrets Management – *Gartner Leader*
  - Endpoint Privilege Management – *Gartner Leader for Windows*
  - Workforce User Management
- Single integrated platform
- Security first mindset
- Services of excellence

Integrations

- Support out of box for 900+ platforms
- Customization of plugins
- Native access increase adoption - support of IT tooling (RDP managers, SSH clients, DB clients, Web browsers ..)
- Support for enterprise security and IT systems (SIEM, HSM, MFA, Authentication, ..)

Full PAM security

- Credentials management and rotation
- Session Management and Recording
- Threat Analytics
- Just-in-time access
- Zero Standing Privileges
- Adaptive MFA and SSO
- Remote VPNless connection
- Secure Browser
- Endpoint Identity Protection

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