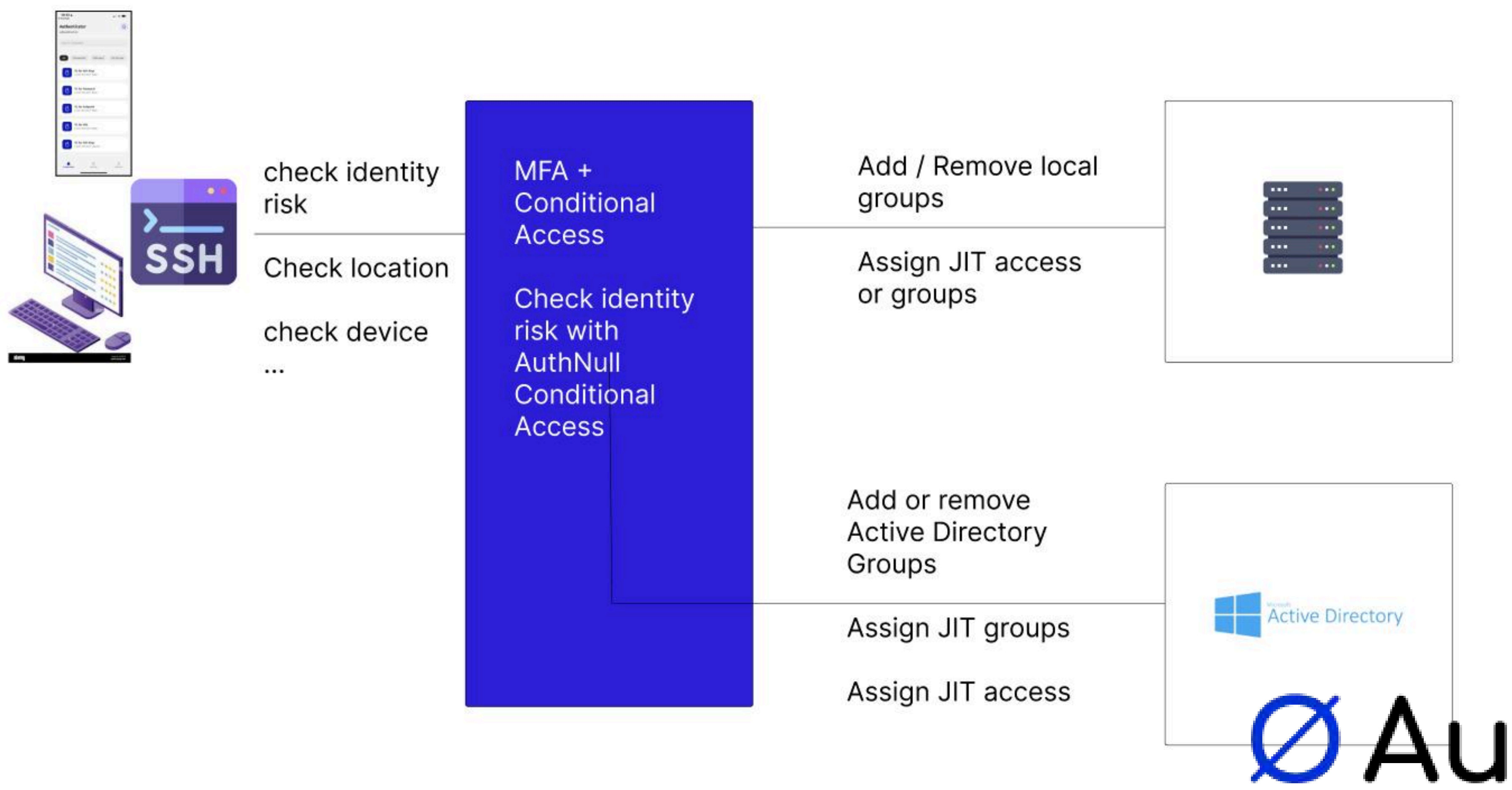
Multi-Factor Authentication Solution Brief

Passwords alone are no longer enough — and even legacy MFA is easily bypassed via phishing, SIM swap, or token fatigue attacks. CISOs face pressure to implement phishing-resistant MFA for all users, especially those with elevated privileges, while minimizing friction and cost.

Key challenges with traditional MFA tools

- Don't work well across hybrid infrastructure. With different directories or different kinds of infrastructure example Linux or Windows. Each requires a separate solution
- Fail to enforce step-up authentication at session start
- Can't differentiate between user risk levels or contexts
- Don't support machine identities, and step up to user identities

AuthNull Multi-Factor Authentication (MFA) is much better as it provides a system to detect user identity risk


SSH
check identity risk
Check location
check device
...
MFA + Conditional Access
Check identity risk with AuthNull Conditional Access
Add / Remove local groups
Assign JIT access or groups
Add or remove Active Directory Groups
Assign JIT groups
Assign JIT access
Active Directory

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AuthNull MFA Features

AuthNull’s MFA is purpose-built for privileged and high-risk access scenarios, offering strong phishing-resistant options, contextual enforcement, and passwordless-by-default flows.

- Phishing-Resistant MFA - FIDO2/WebAuthn, passkeys, biometrics, or secure push with cryptographic challenge
- Contextual Access Control - Enforce MFA only when risk, location, or behavior changes
- Passwordless-First - No passwords to steal or phish — use device-bound keys or identity wallets
- Support for Human + Machine Identities - Use verifiable credentials and device attestation for AI agents, CLI users, and service accounts
- Offline MFA + Break-glass support- Resilient MFA even during outages with fallback rules and time-boxed OTP
- Autonomous auto-pilots that enable automated policy discovery and automated policy improvements.

How it works?

- User initiates access to infrastructure
- AuthNull evaluates context: IP, device trust, risk score, role
- Adaptive enforcement: MFA prompted based on policy
- Session started: All access recorded, credentials brokered securely
- Audit logs sent to SIEM/ITSM tools
- AI Agents discover and continue to improve policies.

Need more info?

Get in touch with us - sales@authnull.com

Privileged Access Management must have features

Centralized privileged access control
Enforce and manage privileged account access across humans and machines.

Credential vaulting and management
Secure storage, rotation, and brokering of privileged credentials.

Temporary access brokering
Grant privileged credentials on-demand (just-in-time) to authorized users.

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Privileged Access Management nice to have features

These features enhance functionality and support advanced use cases, shaping a mature PAM program:

Privileged session management (monitoring, recording, real-time access control)

Comprehensive auditing (who/when/where privileged access occurred)

Agent-based privilege elevation (e.g., Windows, Linux, macOS)

Just-in-time privilege elevation to minimize exposure

Privileged account discovery across hybrid environments

PAM is a cornerstone for zero-trust and defense-in-depth, beyond compliance alone

A phased rollout is recommended—start with must-haves, then expand to include secrets management, CIEM, automation, analytics, integration with SIEM/ITSM, and resilience features (HA, break-glass

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AuthNull - Build for the next decade of PAM

Credential
Auto-discovery & rotation of secrets across AD, Linux, databases

JIT Access
Policy- and risk-based elevation with expiration timers

Password-less Authentication
Wallet-based, decentralized credentials for both human and machine identities

Privileged Session Recording
Bastion proxy + keystroke/session video capture

Policy Based Access Control + Governance
AI-generated entitlement maps & dynamic approval workflows

Secrets Management without a vault
Secretless injection for remote access

Integration
SIEM, ITSM, SSO, SCIM, Entra ID, Active Directory, Radius infrastructure and OIDC support

Resilience
HA architecture, offline break-glass, immutable logs

Database Protection
AuthNull protects open source database

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