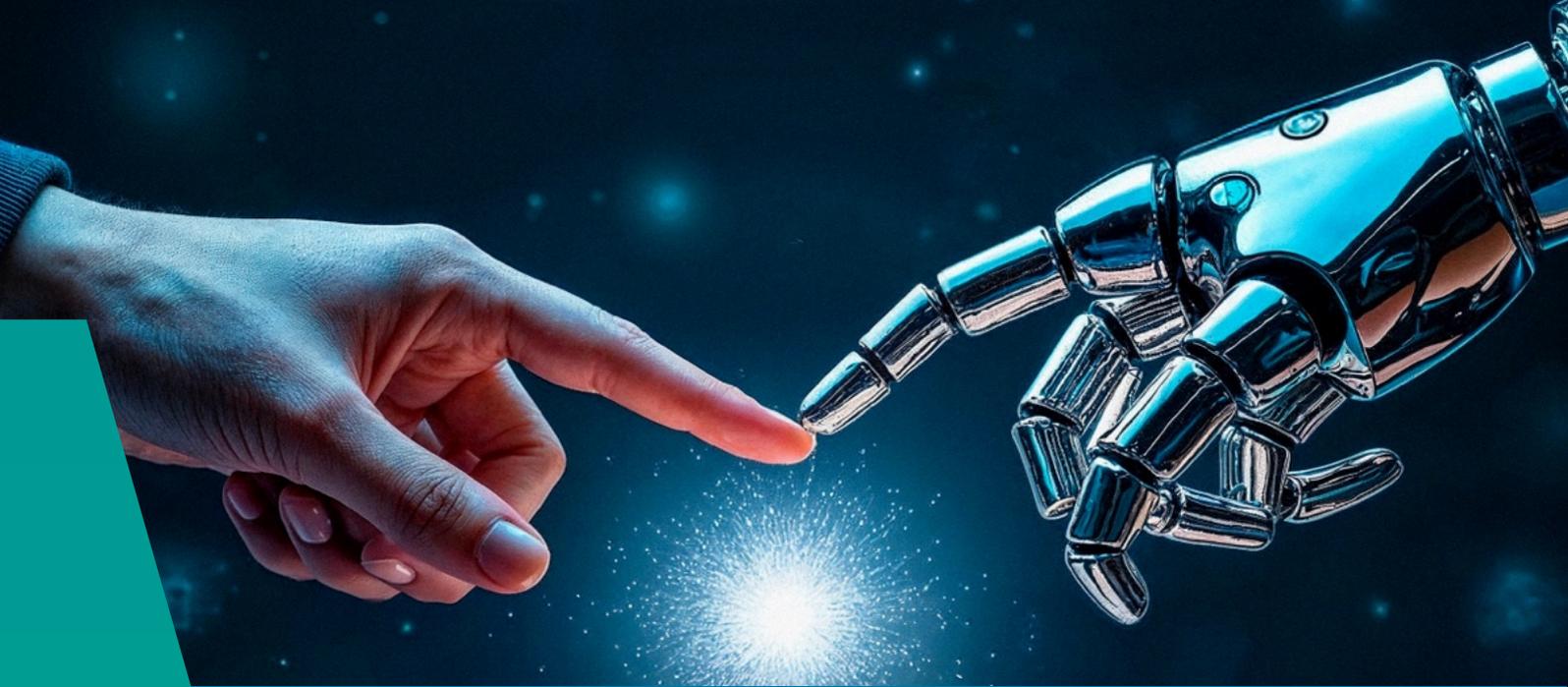
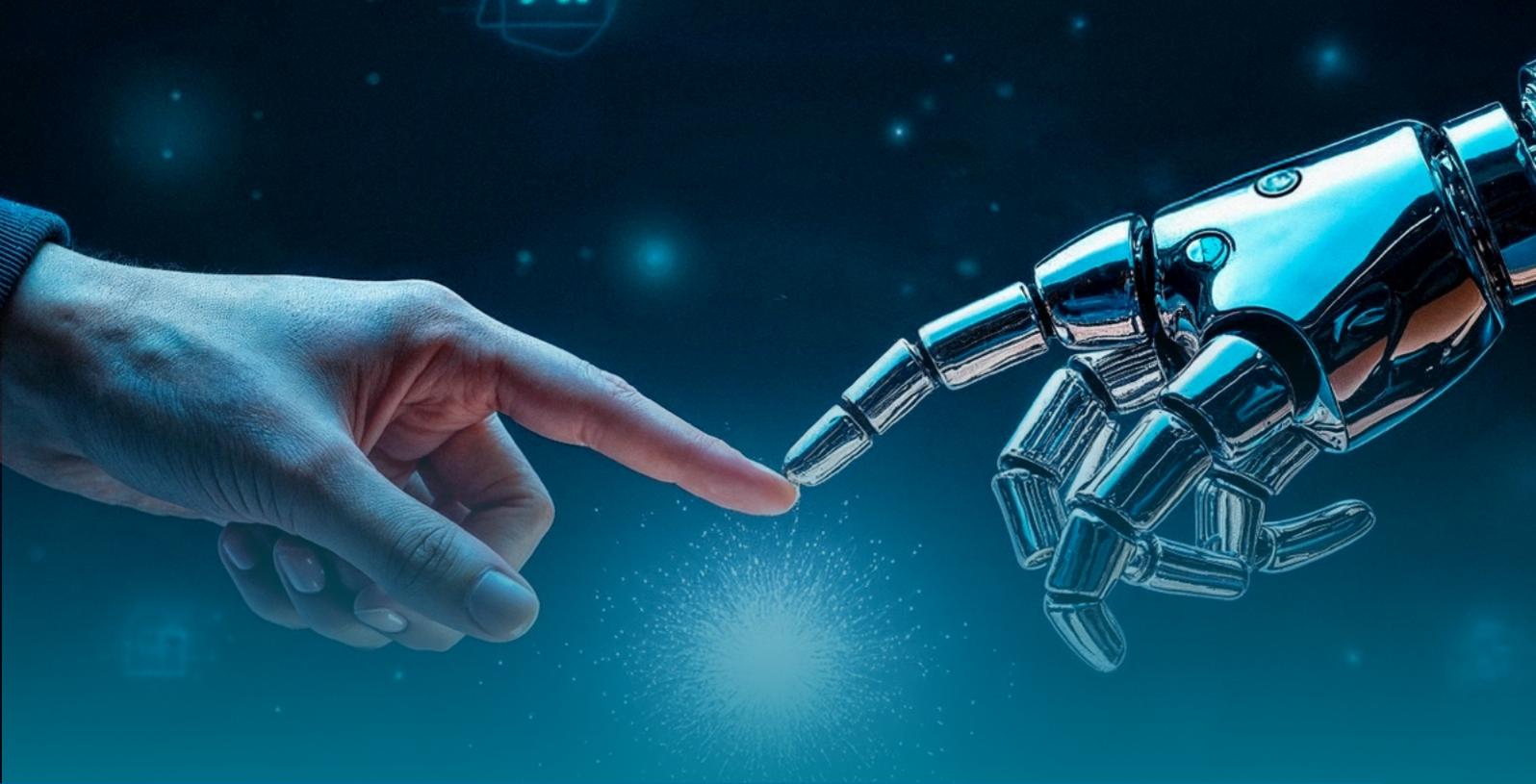


AI



# **A PRACTICAL LOOK AT GOVERNING NON-HUMAN IDENTITIES (NHIS)**





## SECURING THE FASTEST-GROWING ATTACK SURFACE

### Most identity programs stop at people. Modern infrastructure doesn't.

In today's environments, **non-human identities (NHIs)** such as CI/CD jobs, service accounts and AI agents outnumber employees by more than twenty to one. They deploy code, move data and interact with production systems every day. Yet most operate outside of corporate governance programs. They have credentials that never expire, access no one owns and permissions that collect quietly over time.

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**That's the latest identity risk gap.**



# THE RISK BEHIND EVERY UNATTENDED IDENTITY

Risk	What it means in practice
<b>Static credentials</b>	Long-lived tokens and API keys grant standing access with no expiration or oversight
<b>No ownership</b>	Few teams can say who is accountable for a service account or what its intended use is for
<b>Over-permissioned roles</b>	Most NHIs run with more broader roles than needed, widening the blast radius
<b>Credential drift</b>	Secrets get copied, reused and embedded into code without controls
<b>Limited visibility</b>	Vaults store credentials but don't govern how they're used or when they should expire

When a machine identity is compromised, there's often no way to easily trace access and no user session to lock out. It acts in blind trust and moves undetected through critical systems, with hidden drift and misconfigurations that remain until an attacker exploits and exposes them.



## WHAT GOOD GOVERNANCE LOOKS LIKE

**Effective NHI governance mirrors what you already do for people, just adapted for machines and agents.**

01

**Discover and inventory** every NHI across clouds and tools

02

**Assign ownership** so each identity has an accountable person or team

03

**Define scope** with least-privilege policies tied to business intent

04

**Enforce expiration** so credentials are short-lived and just in time by default

05

**Automate rotation and revocation** as and when access is no longer needed

06

**Monitor for governance drift** and flag policy violations automatically

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Governance is not a one-time cleanup. It's an always-on process that treats every credential as an access-granting entity throughout its entire lifecycle.



## A MATURITY PATH FOR GETTING CONTROL

Each phase builds on the last to shrink risk while reducing manual effort.

Phase	Focus	Outcome
<b>Audit</b>	Identify all NHIs and credentials using discovery or access control tools	Visibility into scope and exposure
<b>Federate</b>	Replace static, privileged credentials with role assumption and or identity federation	Removal of persistent secrets
<b>Restrict</b>	Block creation of new long-lived credentials through least-privilege policies and guardrails	Reduced credential sprawl
<b>Automate</b>	Rotate and expire remaining credentials through contextual policy enforcement	Consistent access hygiene
<b>Govern</b>	Manage access continuously through identity-native controls	Full lifecycle governance



## HOW PO SECURITY HELPS

**PO Security delivers continuous, identity-native access governance for human users, NHIs and AI agents.**

**Automated discovery** across hybrid production environments

**Ownership tagging** at creation through existing IdP or active directories

**Just-in-time and ephemeral access** that eliminates standing privilege

**Policy drift detection** of any violations for new or unmanaged credentials

**Native governance enforcement** that embeds policies into workflows via API

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With PO, every credential is created with purpose, scoped by policy and retired when no longer needed.

**Let's change the way you manage privileged access...**

Extend PAM to multi-cloud and hybrid environments with a central authorization control plane for all users, NHIs and agents.

Visit [www.p0.dev](http://www.p0.dev) for a demo or to start your free trial.



## Contact Us

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PO Security helps companies modernize Privileged Access Management (PAM) for multi-cloud and hybrid environments with the most agile way to ensure least-privileged, short-lived and auditable production access for users, NHIs and agents. Centralized governance, Just-Enough Privilege and Just-in-Time controls deliver secure access to production, as simply and scalable as possible.

**Every identity. Every system. All the time.**

PO's Access Graph and Identity DNA data layer make up the foundational architecture that powers privilege insights and access control across all identities, production resources and environments.

With PO, production access is least-privilege, short-lived and auditable by default, including the new class of AI-driven agentic workloads emerging in modern environments.