

CloudAz Meta Attribute Store

Zero Trust Policy Information Point



THE SITUATION

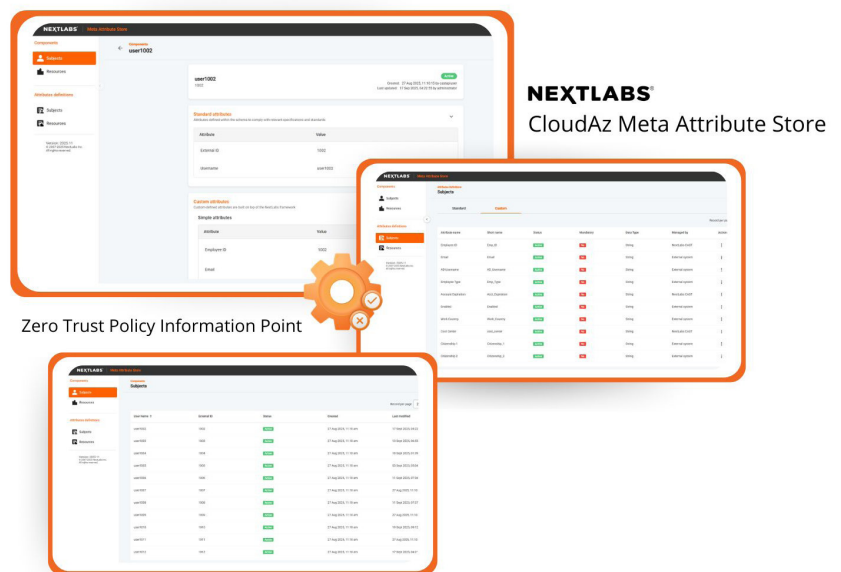
In modern enterprise environments, authorization often fails not due to poor logic, but because of fragmented data. Organizations struggle with an “information gap” where critical subject and resource data is trapped in disconnected silos, such as directory services, HR systems, and various cloud repositories.

Traditional authorization models require complex, manual customizations to fetch these attributes in real-time, often overwhelming source systems with repeated runtime queries. As businesses scale, the inability to normalize and enrich this data without modifying underlying infrastructure creates a bottleneck for implementing true Zero Trust security.

THE SOLUTION

The CloudAz Meta Attribute Store is an enterprise-grade Policy Information Point (PIP) designed to decouple policy decision-making from underlying identity and resource systems. By centralizing and normalizing attributes into a high-performance, authoritative repository, it acts as an intelligent aggregation layer for the CloudAz ecosystem.

The Meta Attribute Store enables organizations to enrich and normalize attribute data on the fly. It provides a hybrid model that synchronizes authoritative data from systems of record while allowing security teams to manage “NextLabs-managed” enrichment attributes, such as project identifiers or risk classifications, without requiring changes to the original source schemas.



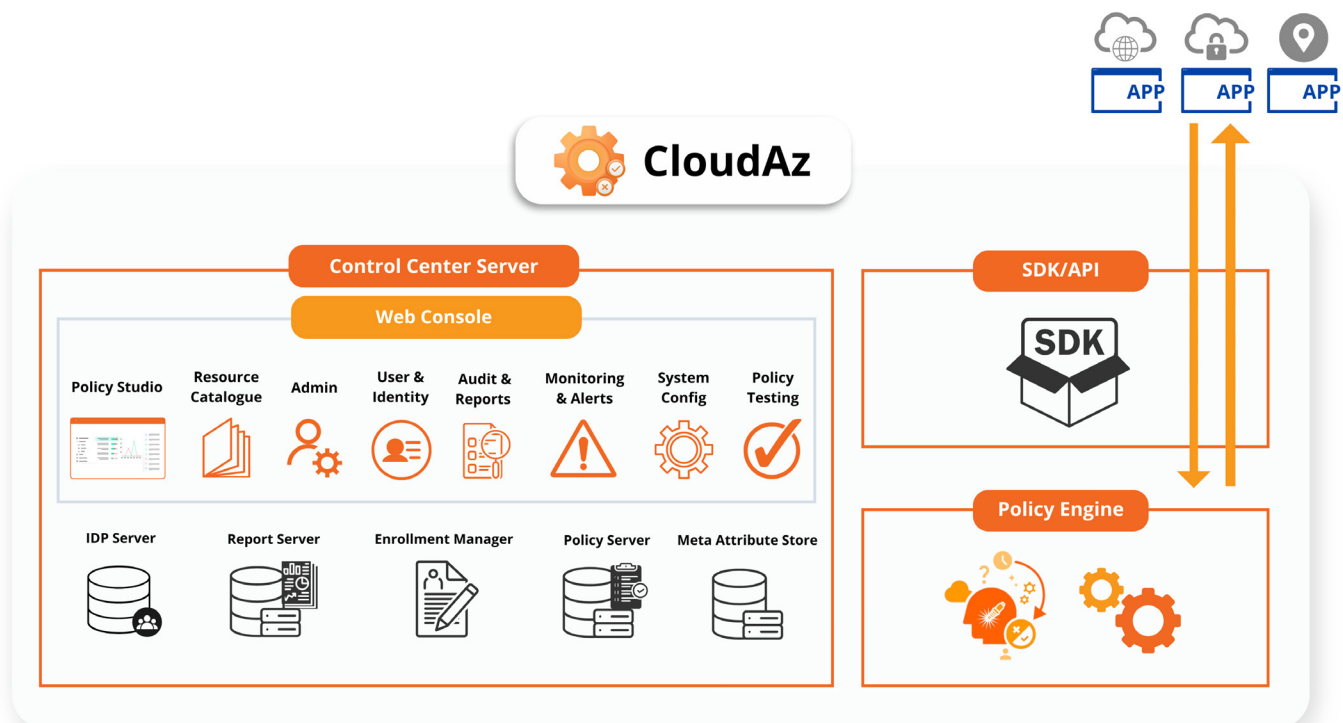
KEY BENEFITS

- **Unified Attribute Aggregation:** Centralizes fragmented silos into a single, high-performance repository to ensure consistent and deterministic policy decisions.
- **Source System Protection:** Preserves the stability of IAM and directory systems by reducing repeated, costly runtime queries.
- **Decoupled Architecture:** Abstracts evaluation from underlying systems, reducing operational risk and complexity in distributed, multi-cloud environments.
- **Optimized Real-Time Performance:** Natively integrated with the CloudAz Policy Controller to deliver low-latency, high-throughput access for authorization use cases.
- **Governance and Compliance:** Establishes a single point for attribute normalization, simplifying auditing, reconciliation, and policy troubleshooting.
- **Scalable Independent Service:** Deployed as a standalone service capable of supporting enterprise-scale workloads without impacting core identity platforms.

KEY CAPABILITIES

- **Seamless Ecosystem Integration:** Supports industry-standard protocols including **SCIM, REST, LDAP, and LDIF** out-of-the-box to minimize integration effort.
- **Hybrid Attribute Model:** Combines customer-managed “Source Attributes” (read-only for integrity) with NextLabs-managed “Enrichment Attributes” for policy-specific needs.
- **Merge and Override Support:** Provides controlled behavior when attributes are sourced from multiple systems, ensuring the most accurate data is used for evaluation.
- **Bulk Lifecycle Management:** Enables administrators to perform bulk creation and updates across large populations to facilitate rapid organizational changes.
- **Extensible Architecture:** Easily onboards new attribute sources and enrichment mechanisms over time with minimal impact on existing policy definitions.

KEY COMPONENTS



KEY FEATURES

Feature	Detail
Authoritative PIP	Functions as the central source of truth for all subject and resource attributes required by the Policy Decision Point.
Attribute Enrichment	Allows the definition of temporary access indicators, risk levels, and project IDs without modifying upstream systems.
Centralized Definition	A streamlined interface allows administrators to define attributes, associate sources, and control behavior from one location.
Native Integration	Fully integrated with the CloudAz policy platform for a consistent policy authoring and enforcement experience.
Information Gap Closure	Enables security teams to normalize data and fill gaps in existing infrastructure without developer intervention.
Audit & Reconciliation	Provides full visibility into attribute usage and supports periodic data consistency checks for compliance.

ABOUT NEXTLABS

NextLabs®, Inc. provides zero trust data-centric security software to protect business critical data and applications. Our patented dynamic authorization technology and industry leading attribute-based zero trust policy platform helps enterprises identify and protect sensitive data, monitor and control access to the data, and prevent regulatory violations – whether in the cloud or on premises. The software automates enforcement of security controls and compliance policies to enable secure information sharing across the extended enterprise. NextLabs has some of the largest global enterprises as customers and has strategic relationships with industry leaders such as SAP, Siemens, Microsoft, AWS, Accenture, Deloitte, Infosys, and IBM. For more information on NextLabs, please visit <http://www.nextlabs.com>.

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