Enterprise Access Model: Securing Privileged Access at Scale

A layered architecture for securing identities, admins, and workloads across hybrid and multi-cloud environments.

PerparimLabs

Concept Overview

The **Enterprise Access Model (EAM)** provides a *unified framework* for controlling access across users, admins, and workloads — spanning on-premises, Azure, and multi-cloud environments.
It defines *who can access what, how, and under what conditions* — ensuring consistent security and governance.

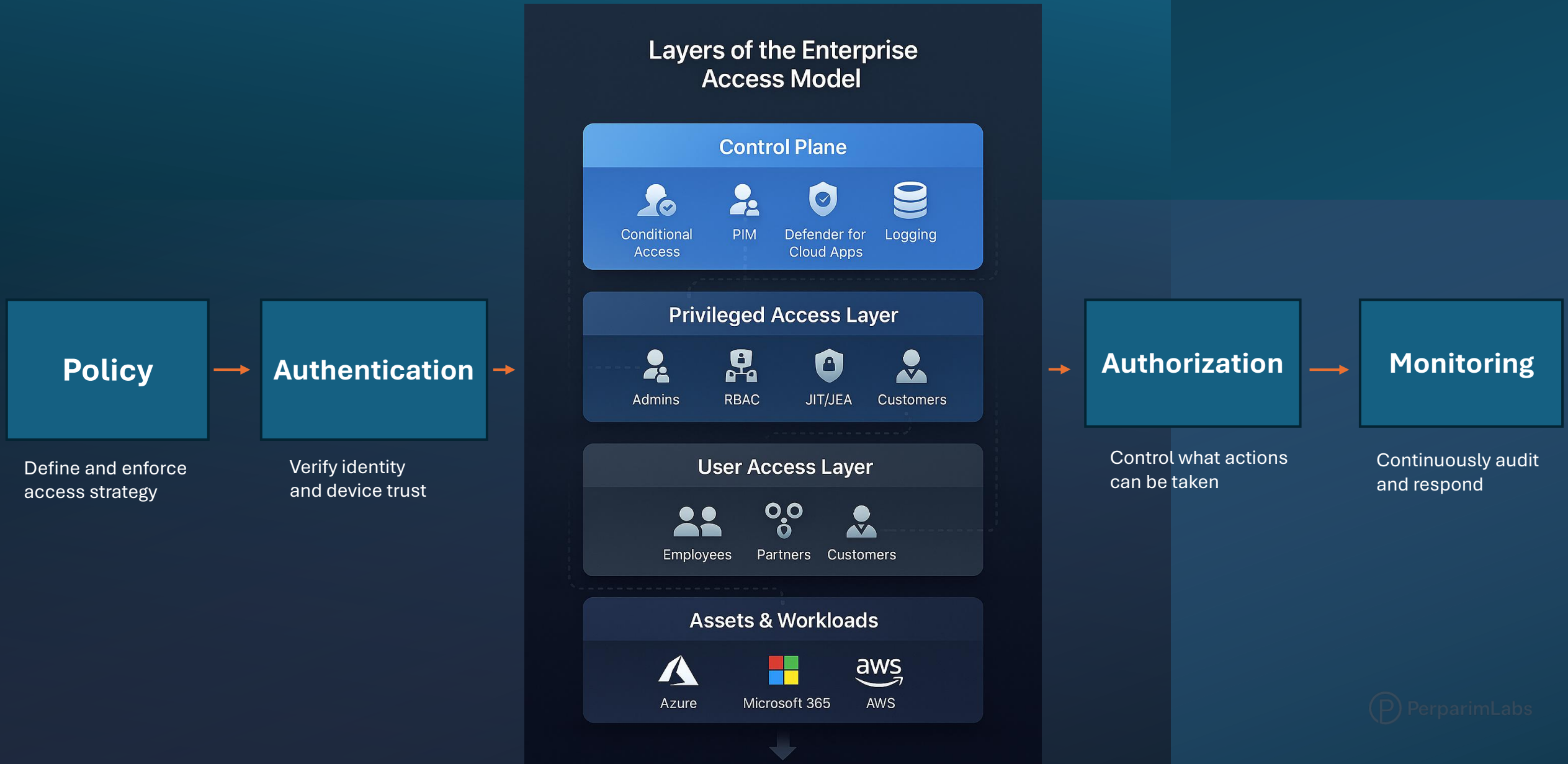
Key Pillars: Each layer enforces distinct controls to ensure least privilege and defense-in-depth across all environments.

User Access Layer: Employees, partners, customers accessing services.

Management Plane: Critical data, workloads, and assets.

Privileged Access Layer: Admins managing infrastructure and security.

PerparimLabs



Security Design Principles

✅ **Integration with Access Control:** Privileged access is part of the enterprise-wide access control strategy.
✅ **Protection of Data & Workloads:** Secure applications, data, and IP using audit, alerting, and compliance policies.
✅ **Zero-Trust Enforcement:** Require authentication & re-authentication based on context (location, device, time).
✅ **Mitigation of Unauthorized Access:** Apply RBAC + PIM + Conditional Access to minimize attack surface.
✅ **Restricted Internet Access for Admins:** Enforce device trust and location policies.

PerparimLabs

Microsoft Tools in Action

- **Microsoft Entra ID + Conditional Access:** Central enforcement point
- **Privileged Identity Management (PIM):** Temporary elevation and access reviews
- **Microsoft Defender for Cloud Apps (CASB):** Monitors and restricts risky app usage
- **Audit & Alert Policies:** Log and monitor all privileged operations

PerparimLabs

Real-World Application

Implementing the Enterprise Access Model helps organizations:

- Reduce excessive permissions
- Strengthen least-privilege policies
- Improve compliance with audit and governance requirements
- Simplify management across hybrid and multi-cloud environments

This model forms the foundation for implementing Microsoft's Zero Trust architecture across identity, data, and workloads.

PerparimLabs