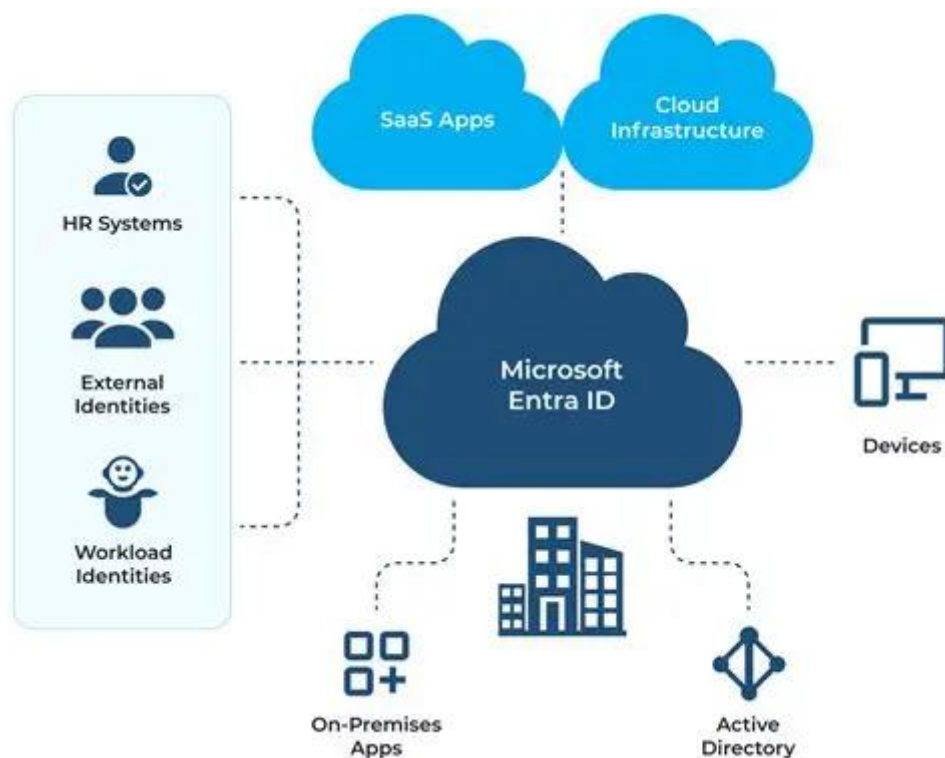


## Azure Microsoft Entra ID

- **Identity and Access Management (IAM)** solution from Microsoft.
- Provides **single sign-on (SSO)** for apps and services.
- Supports **multi-factor authentication (MFA)** for enhanced security.
- Enables **conditional access policies** to control access based on user/device conditions.
- Integrates with **Microsoft 365**, Azure services, and thousands of SaaS apps.
- Offers **role-based access control (RBAC)** for managing permissions.
- Includes **identity protection** features like risk-based sign-in analysis.
- Supports **hybrid identity** (on-premises Active Directory + cloud).



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## Azure Directory

- Refers to **Azure Active Directory (Azure AD)**, now part of Microsoft Entra.
- A **cloud-based directory service** for managing users, groups, and devices.
- Stores **identity information** for authentication and authorization.
- Provides **directory synchronization** with on-premises AD.

- Enables **application access management** for internal and external apps.
  - Supports **B2B and B2C identity scenarios** for partners and customers.
  - Acts as the **central identity store** for Azure resources and Microsoft services.
- 

## Difference Between Authentication and Authorization

- **Authentication:**
  - Confirms **who you are**.
  - Process of verifying identity (e.g., username + password, MFA).
  - Example: Logging into a system with credentials.
- **Authorization:**
  - Determines **what you can do**.
  - Process of granting permissions to resources after authentication.
  - Example: Accessing a specific file or performing an admin task.

### In short:

- Authentication = **Identity verification**
- Authorization = **Access control**

