

Identity and Access Management (IAM)

<https://IdentityArchitect.dev>

Authentication

Password Management creating, storing, and updating user passwords securely

Multi-factor Authentication (MFA) requiring users to provide two or more verification factors to gain access to a resource

Single Sign-On (SSO) allows users to access multiple applications or services with one set of credentials, simplifying the login process

Authorization

Entitlements the specific rights and privileges a user has to access and interact with resources or data within a system.

Role-Based Access Control (RBAC) assigns system access based on a user's role within an organization

Attribute-Based Access Control (ABAC) grants access based on user attributes (like department or job title), environment conditions, and resource characteristics

Policy-Based Access Control (PBAC) grants access to resources through policies that evaluate the context of access requests against established rules

Policy Enforcement ensures that access to resources is granted or denied according to predefined security policies and rules

Identity Management

User Registration the process where new users provide necessary information to create an account within a system or service.

User Provisioning automatically creating, updating, and managing user accounts across systems and applications

Profile Management allows users to update their personal information, preferences, and security settings within an account

Consent Management obtaining and tracking users' permissions for data collection, processing, and sharing, in compliance with privacy regulations

User Store (Directory Service)

User Repositories data stores that store and manage information about users, including their credentials, roles, and access rights

Group Management organizing users into categories or groups to simplify the assignment of shared access rights and resources

Credential Store securely handling the creation, storage, and updating of user credentials, like passwords and digital certificates

Identity Federation

Security Assertion Markup Language (SAML) standard for exchanging authentication and authorization data between parties, particularly between an identity provider and a service provider

OAuth2 protocol that allows applications to securely access resources on behalf of a user without sharing the user's credentials

OpenID Connect (OIDC) an authentication layer on top of OAuth 2.0 that allows applications to verify the identity of users based on the authentication performed by an authorization server

Social Login allows users to access applications using their existing login information from social networking services, simplifying the authentication process

Privileged Access Management (PAM)

Secure Admin Access implementing security measures to control and monitor administrative users' access to critical systems and data

Credential vaulting securely stores and manages sensitive information like passwords and keys, restricting access only to authorized users and applications

Privileged session management controls and monitors sessions for users with elevated access rights to ensure security and compliance

Session Launching initiates user sessions in a controlled environment, ensuring secure and authenticated access to systems or applications without the end user having to know the underlying credentials

Identity Governance & Administration (IGA)

Access Requests formal requests by users seeking permission to access specific resources, data, or applications

Access Request approvals process of reviewing and granting or denying a user's request for access to certain resources

Access Provisioning automatically creating, updating, and managing user and system accounts and access rights across systems and applications

Access Reviews periodic evaluations conducted to ensure that users have appropriate permissions for their roles and that unnecessary access rights are revoked

Orchestration automated coordination and management of processing changes to identities, accounts, and access rights across multiple systems

Identity Lifecycle Management processes and technologies for creating, maintaining, and deactivating user identities and access rights across joiner, mover, and leaver events

Audit and Compliance

Activity Monitoring tracks and analyzes user actions within systems to ensure compliance with policies and to detect potential security threats

Compliance reporting generating and analyzing reports to ensure organizational practices adhere to relevant laws, regulations, and compliance frameworks

Risk Analysis assesses potential vulnerabilities and threats in order to prioritize and mitigate risks, as it relates to identity and access controls