

PRODUCT DATASHEET

tbIAM: Identity Access Management

INTRODUCTION

In modern digital environments, organizations face increasing challenges in managing user identities and controlling access to critical systems. From growing cybersecurity threats to the complexities of hybrid infrastructures, secure and efficient access management has become a foundational need.

tbIAM by TechBridge is a comprehensive Identity and Access Management (IAM) platform designed to help organizations manage user identities, enforce secure authentication, and control access across all systems whether in the cloud, on-premises, or in legacy environments. It simplifies user onboarding, strengthens security, and ensures consistent access policies across diverse applications and user groups.

With features like Single Sign-On (SSO), Multi-Factor Authentication (MFA), password-less login, and role-based access control, tbIAM supports organizations in reducing risks, improving operational efficiency, and maintaining clear control over who can access what, without disrupting user experience

FEATURES AND FUNCTIONALITIES

Authentication Features

- **Single Sign-On (SSO):** Access multiple applications with a single login.

- **Social Login:** Support Google, GitHub, Facebook, LinkedIn, and other social platforms.
- **Multi-Factor Authentication (MFA):** Use OTP, TOTP, WebAuthn (FIDO2), and more.
- **Passwordless Login:** Biometric authentication with fingerprint and facial recognition.
- **LDAP & Active Directory Integration:** Synchronize users and groups from existing directories.
- **Kerberos Authentication:** Enable Windows Integrated Authentication in enterprise networks.

Authorization Features

- **Role-Based Access Control (RBAC):** Assign permissions at realm, client, or application level.
- **Attribute-Based Access Control (ABAC):** Define access policies using user attributes and contextual factors

Identity Provider (IdP) Capabilities

- **Standards Support:** Full support for SAML 2.0 and OpenID Connect (OIDC).
- **Identity Brokering:** Connect to Azure AD, Okta, and other providers.
- **Federation Support:** Integrate external directories like LDAP and Kerberos.

Client and Developer Support

- **SDKs and APIs:** JavaScript, React, Angular, Android, REST APIs for automation and integrations..
- **OIDC & SAML Clients:** Register and manage applications easily via the Admin Console or APIs.
- **Custom Login Pages:** Tailor authentication experiences to match branding.

Administration and Governance

- **Admin Console:** Manage realms, users, groups, roles, and clients.
- **Event Logging and Auditing:** Track authentication and administrative activities.
- **Service Provider Interfaces (SPI):** Extend and customize authentication workflows.

Deployment and Scalability

- **Realm-Based Multi-Tenancy:** Isolated environments for different business units or clients.
- **Docker & Kubernetes Ready:** Official images, Helm charts, and Operators.
- **Clustering and High Availability:** Scale reliably for large deployments.

Security Controls

- **Brute Force Protection:** Automatically lock accounts after failed attempts.
- **SSL Enforcement:** Enforce HTTPS communications.
- **Token Management:** Configure and revoke access, refresh, and ID tokens.
- **Client Credential Rotation:** Automate secret rotation for applications

CORE FUNCTIONALITIES OF tBIAM

Base Integration Across tb/CyberSIO Applications

- Establish Single Sign-On across all internal TechBridge and CyberSIO applications.
- Support identity federation to enable secure multi-tenant environments.

Legacy Application Integration

- Provide SDKs and plugin frameworks for seamless onboarding of legacy applications.
- Maintain backward compatibility to support older systems as needed.

User Interface Standardization

- Deliver a refined and consistent user interface across all IAM modules.
- Use modern design frameworks to ensure consistent theming and accessibility compliance.

Protocol and Standards Migration

- Migrate to the latest standards, including OAuth 2.1+, FIDO2, and SAML 2.0.
- Deprecate outdated cryptographic protocols to strengthen overall security posture.

Adaptive Authentication

- Implement context-aware authentication based on geolocation, device trust, and risk scoring.
- Configure fallback and alternative authentication methods to ensure access continuity.

PII Data Encryption

- Encrypt personally identifiable information (PII) both at rest and in transit.
- Ensure compliance with data protection standards such as GDPR and applicable local privacy laws.

Key Capabilities

Identity Management

- Create realms for isolated user and policy management.
- Enable user self-registration and support login with email.
- Provide user federation from LDAP, Active Directory, and external IdPs.

Smart Authentication & User Experience

- Offer biometric authentication and passwordless login.
- Customize authentication flows to balance security and convenience.
- Support TOTP, magic link, CAPTCHA, and remember-me options.

Role & Access Management

- Assign and map roles to applications and resources.
- Manage group-based permissions and bulk assignments.
- Enable secure self-service password management.

Single Sign-On & Federation

- Integrate SSO using SAML 2.0 and OpenID Connect.
- Support social and enterprise identity brokering.

Security & Monitoring

- Detect brute force attacks and enforce lockout policies.
- Monitor login events and administrative actions in real time.
- Enable administrator impersonation for troubleshooting with audit trails.

Governance & Automation

- Automate detection and removal of dormant or orphan accounts.
- Download detailed logs for audit and compliance.
- Configure email gateways for notifications and OTP delivery.

KEY BENEFITS

Stronger Security Posture

- Combining MFA, password-less authentication, brute force protection, and secure token management, tbiAM significantly reduces the risk of unauthorized access and credential based attacks.

Streamlined User Experience

- With Single Sign-On, social login, and biometric authentication, users can access all necessary resources effortlessly whether in cloud, on-premises, or hybrid environments.

Flexible Integration & Multi-Tenancy

- tbiAM integrates with LDAP, Active Directory, legacy systems, and modern applications via SAML, OIDC, and REST APIs. Its realm-based multi-tenancy supports isolated environments for different business units or clients.

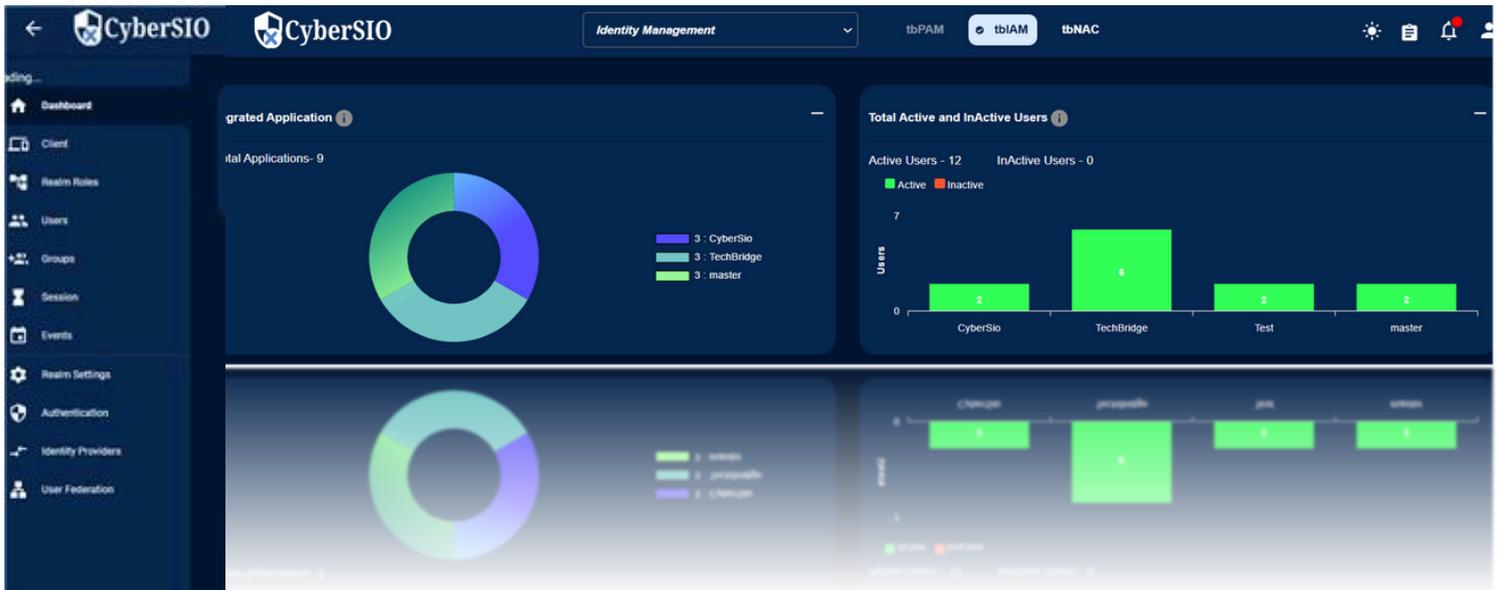
Centralized Control & Customization

- Administrators benefit from a powerful UI and REST API to manage users, roles, policies, event logs, and licenses, along with customization of workflows, emails, and branding.

Compliance & Data Protection

- Built-in PII encryption (at rest and in transit), audit logging, and alignment with GDPR and local regulations help organizations meet stringent security and privacy requirements with confidence.

Dashboard



ABOUT TECHBRIDGE: -

Founded by IITians and incubated in NCoE (under DSCI), TechBridge shines as a leader in CyberSecurity, focused on revolutionizing Threat Management, Identity Management and Risk Management. Recognized by the Technology Development Board (TDB/MeITy) and DSCI (NASSCOM's Startups initiative), TechBridge plays a crucial role in securing the critical infrastructures across vital sectors like government, telecom, healthcare, etc. By harnessing cutting-edge technology and innovative strategies, TechBridge empowers organizations to effectively combat complex cyber threats, making a lasting impact on India's digital landscape and setting new benchmarks in cybersecurity excellence.

CERTIFICATES:-



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