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Creating Seamless and Secure Authentication Experiences: From Consumers to AI Agents



Vihanga Liyanage

Associate Lead - Sales Engineer



Anuradha Karunarathna

Technical Lead

Overview

01 Challenges in Securing Consumer Apps

02 Securing a Consumer App

Hands-on

03 Building the IAM Journey

Hands-on

04 Beyond Authentication: CDS & Verifiable Credentials

Hands-on

05 Identity for AI Agents

Hands-on

06 WSO2 CIAM Roadmap Highlights



Challenges in Securing Consumer Applications



The Balancing Act



- Security that frustrates users → they leave
- Great UX with weak security → you're exposed



AI is Fundamentally Changing Identity Management

Developers productivity is supercharged through **AI for IAM** across the identity integration lifecycle.

- Copilot-driven SDK integration
- Natural language login flow configuration
- MCP server for zero-click setup



Securing AI-native applications requires **IAM for AI** through emerging identity patterns and controls.

- Agent authentication & delegated access
- Scoped permissions & consent
- Auditability for autonomous actions

Blending identity and intelligence with
seamless, secure authentication



Build vs Buy

Build from scratch:

- Full control, full burden
- Every evolving threat is your problem
- Auth is never "done" — it's a moving target

Use an identity provider:

- Focus on your business logic
- Security, compliance, and standards handled
- New capabilities (passkeys, adaptive auth) on day one



A single **open source solution** powering multiple deployment options

WSO₂ Identity Server

The Leading Open Source IAM

Identity Server is a powerful, modern and highly extensible identity and access management solution for your on-premises or cloud environment

ASGARDEO*

SaaS IAM

Asgardeo is a developer-focused IDaaS solution that provides seamless, secure authentication and user management. It is available as a multi-tenant SaaS or private cloud deployment.



Verifiable Security Assurance and Regulatory Trust



Available for purchase via



Follow Along!

```
git clone https://github.com/wso2con/2026-AUS-iam-tutorial-1
```



Asgardeo Free Sign Up

<https://asgardeo.io/signup>



DEMO

Securing a Consumer App

The Manual Mode

DEMO

Securing a Consumer App

The **AI** Mode

DEMO

Elevating the IAM experience

CIAM **capabilities** that make the difference

Authentication was just the beginning

Customer data, verifiable credentials, and agent identity

WSO2 Customer Data Service (CDS)

Why Organizations Struggle with Customer Data:

- Siloed data across different systems (CRM, Analytics, IAM, Apps)
- Fragmented customer identities
- Costly integrations and inconsistent user profiles
- Inability to unify customer context around a single trusted user identity

Need: Unified, identity-aware, compliance-ready customer data management



CDS Core Capabilities

- **Profile Building**
 - Go beyond traditional identity attributes by building rich customer profiles.
 - Incorporate dynamic user traits and application-specific data to enable deeper personalization and insights.
- **Profile Unification**
 - Track users seamlessly across sessions—even before they sign up.
 - Enable profile unification by merging anonymous and identified profiles intelligently.
- **Guest User Tracking**
 - Avoid forcing users to sign up prematurely.
 - Allow them to explore your application freely and convert at their own pace without losing the data.
- **Offload Customer Data Storage to IAM**
 - Delegate customer data storage to a Customer Data Management (CDM) in IAM solution.
 - This ensures scalability, flexibility, and centralized control for personalized experiences and reduce data security risks.



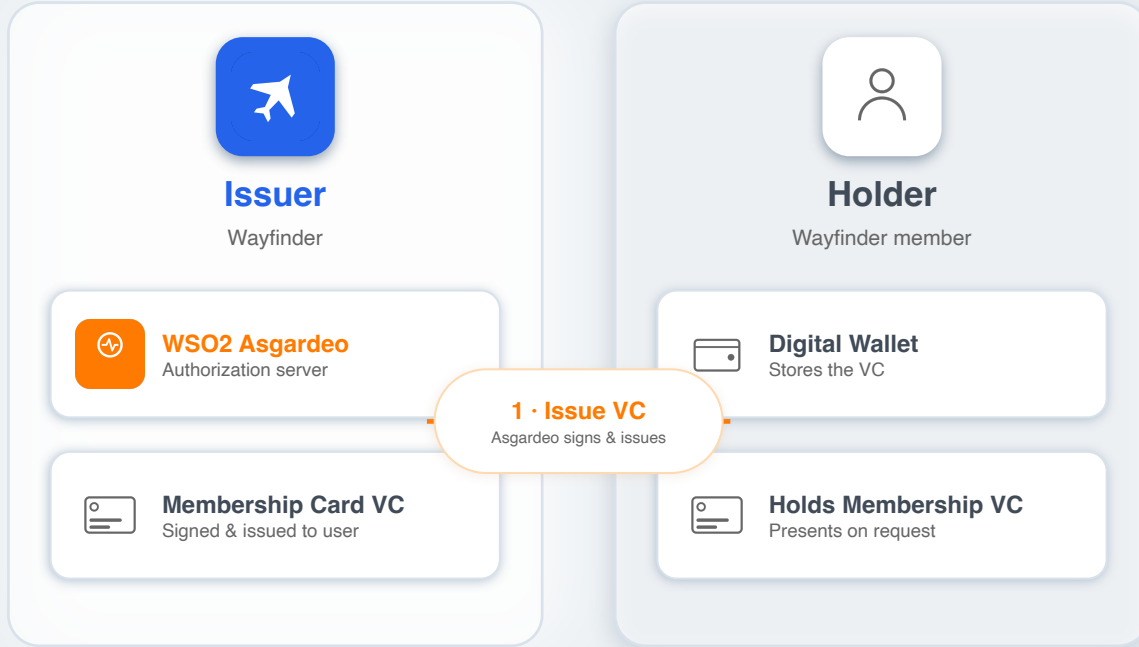
DEMO

Customer Data Service

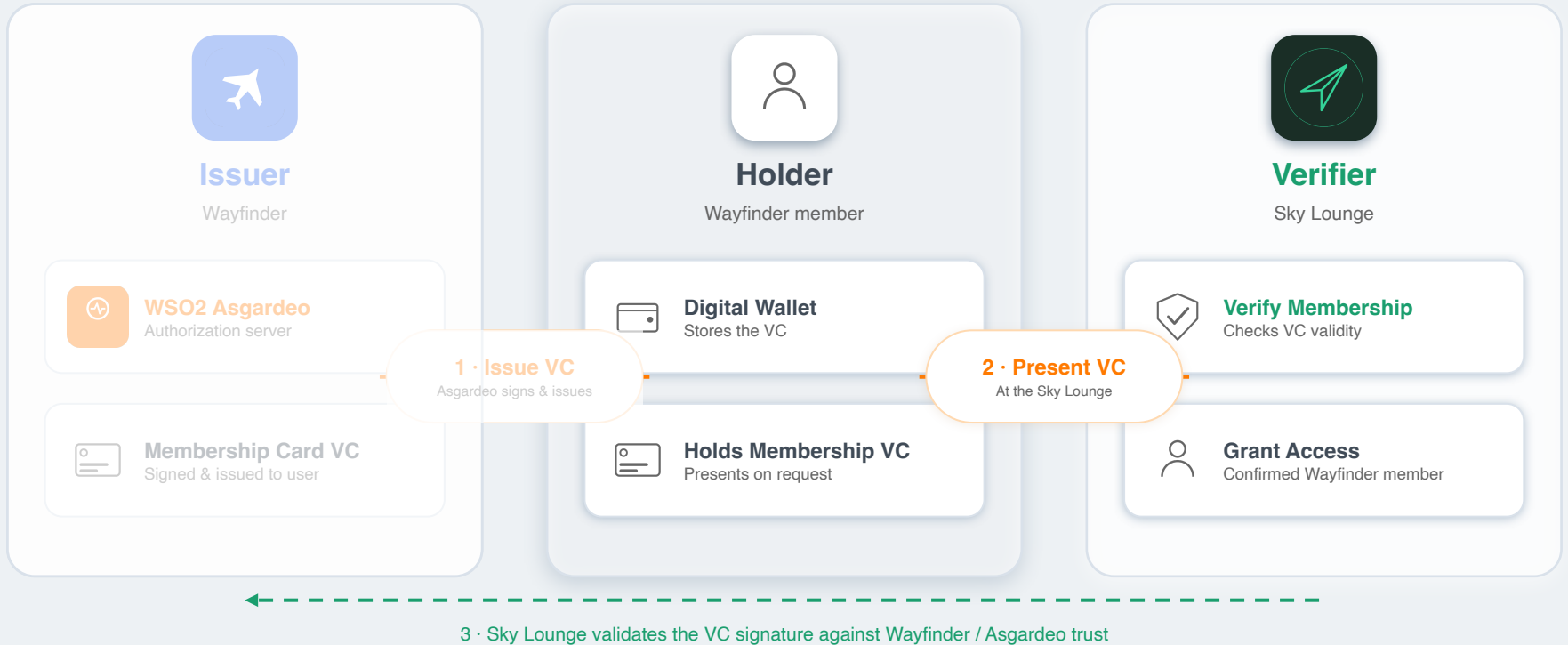
Profile Unification

Verifiable Credentials

Verifiable Credentials (VC) with WSO2 Asgardeo

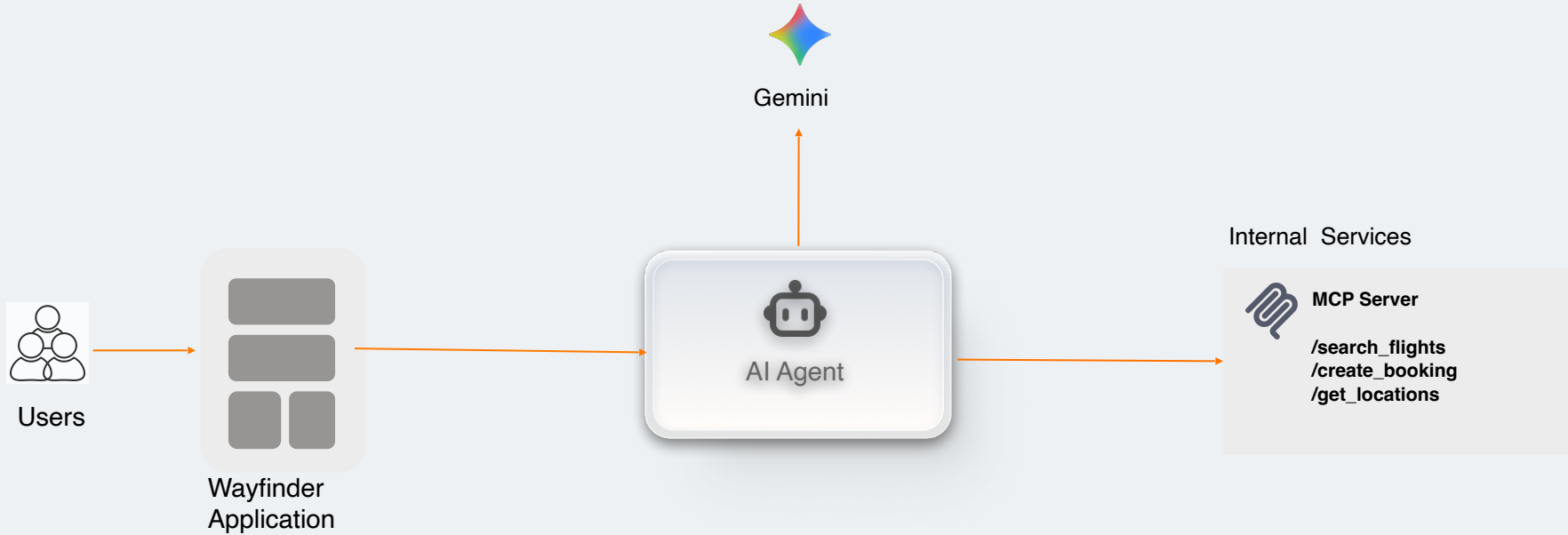


Verifiable Credentials (VC) with WSO2 Asgardeo



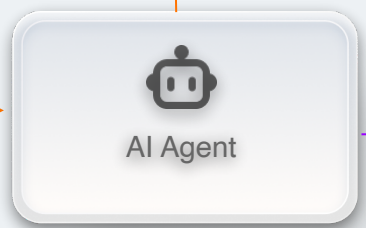
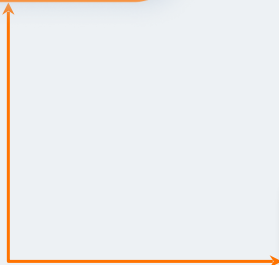
From Consumers to AI

The identity **journey** continues

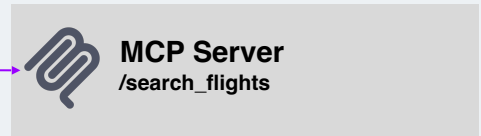
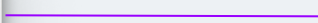
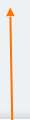


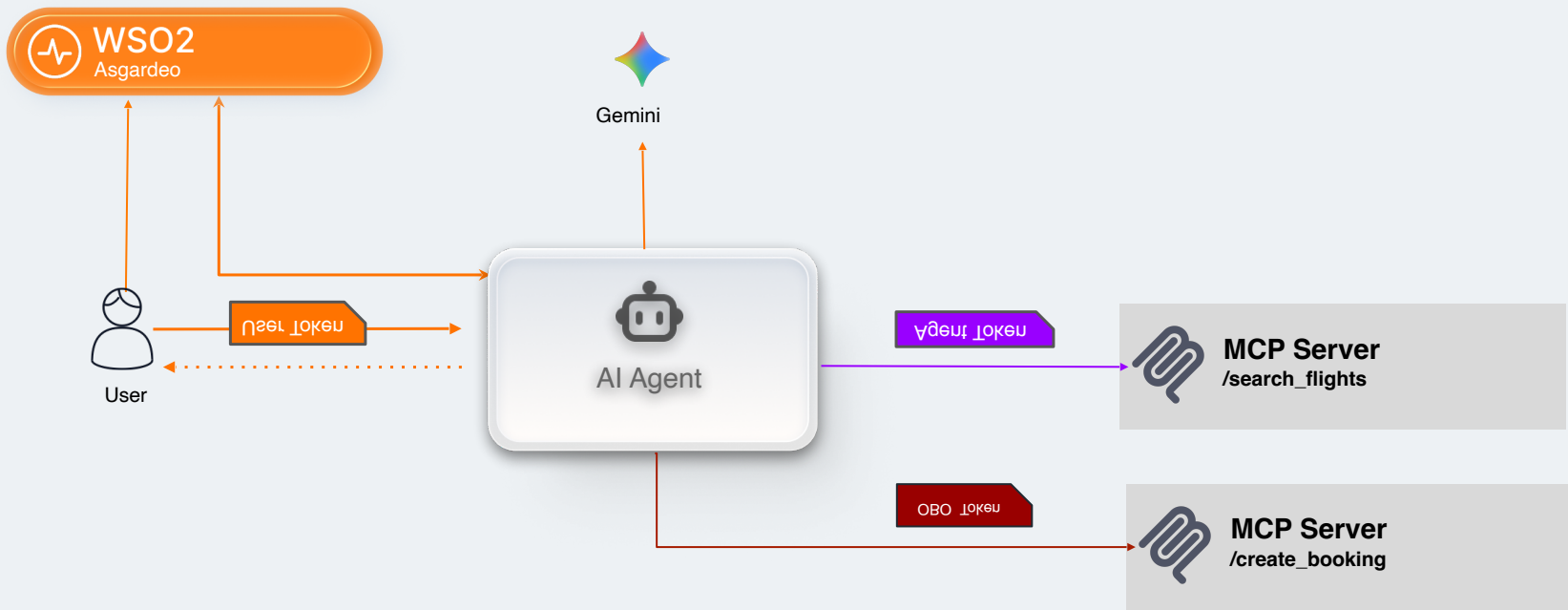


User



Gemini





Track agent activities across different systems

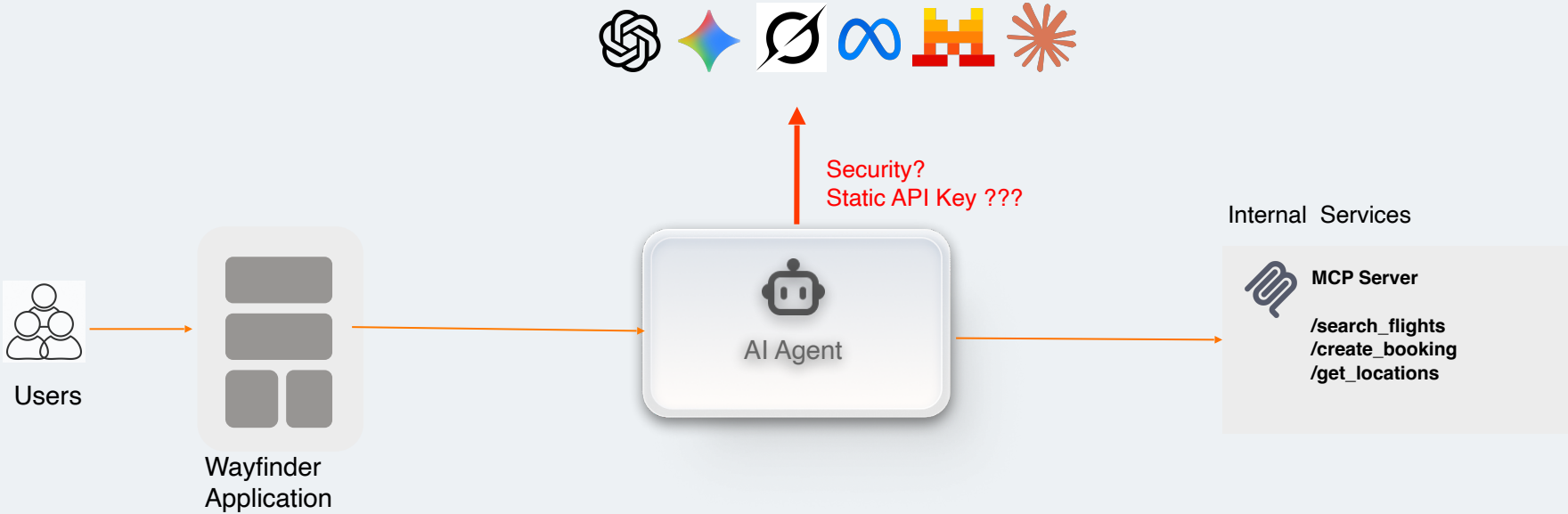
```
{
  "sub": "7a6f7b26-f9ea-48ea-9012-87d6b54f4055", ← user identifier
  "aut": "APPLICATION_USER",
  "iss": "https://localhost:9443/oauth2/token",
  "client_id": "7KafXIoqkfzS6TugWBBtby9A7FYa", ← Oauth/MCP Client
  "aud": "http://localhost:8000/mcp",           identifier
  "nbf": 1762978120,
  "act": {
    "sub": "91bb155e-b23c-4a34-94e5-77478691f4bd" ← agent/MCP Host
  },                                           identifier
  "azp": "7KafXIoqkfzS6TugWBBtby9A7FYa",
  "org_id": "10084a8d-113f-4211-a0d5-efe36b082211",
  "exp": 1762981720,
  "org_name": "Super",
  "iat": 1762978120,
  "jti": "f692e5cc-6906-4935-862d-bdab3a18623c",
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}
```

Track agent activities across different systems

```
e690-88f8-451b-a12a-ee797c0fbf7b actor=c85157a8-4a2e-48d9-99c0-62c496956431 userId=c98ee690-88f8-451b-a12a-ee797c0fbf7b username=demo.john.doe.2026@gmail.com
2026-05-20T05:38:12.041Z INFO HTTP request completed requestId=1cfb55ce-affc-479d-95d4-2805605df336 method=GET path=/api/flights sub=c98ee690-88f8-451b-a12a-ee797c0fbf7b actor=c85157a8-4a2e-48d9-99c0-62c496956431 statusCode=200 durationMs=2.4
2026-05-20T05:38:13.214Z INFO HTTP request started requestId=cca4cb38-6a77-4a62-99ce-e2ff20a07fa3 method=POST path=/api/bookings sub=c98ee690-88f8-451b-a12a-ee797c0fbf7b actor=c85157a8-4a2e-48d9-99c0-62c496956431 query={}
2026-05-20T05:38:13.216Z INFO HTTP request completed requestId=cca4cb38-6a77-4a62-99ce-e2ff20a07fa3 method=POST path=/api/bookings sub=c98ee690-88f8-451b-a12a-ee797c0fbf7b actor=c85157a8-4a2e-48d9-99c0-62c496956431 statusCode=201 durationMs=2.2
2026-05-20T05:38:24.992Z INFO HTTP request started requestId=87bf1d9e-44d3-447b-a8d4-d27f6529da6f method=GET path=/api/bookings/flights sub=c98ee690-88f8-451b-a12a-ee797c0fbf7b query={}
2026-05-20T05:38:24.993Z INFO HTTP request completed requestId=87bf1d9e-44d3-447b-a8d4-d27f6529da6f method=GET path=/api/bookings/flights sub=c98ee690-88f8-451b-a12a-ee797c0fbf7b statusCode=200 durationMs=1.5
```

DEMO

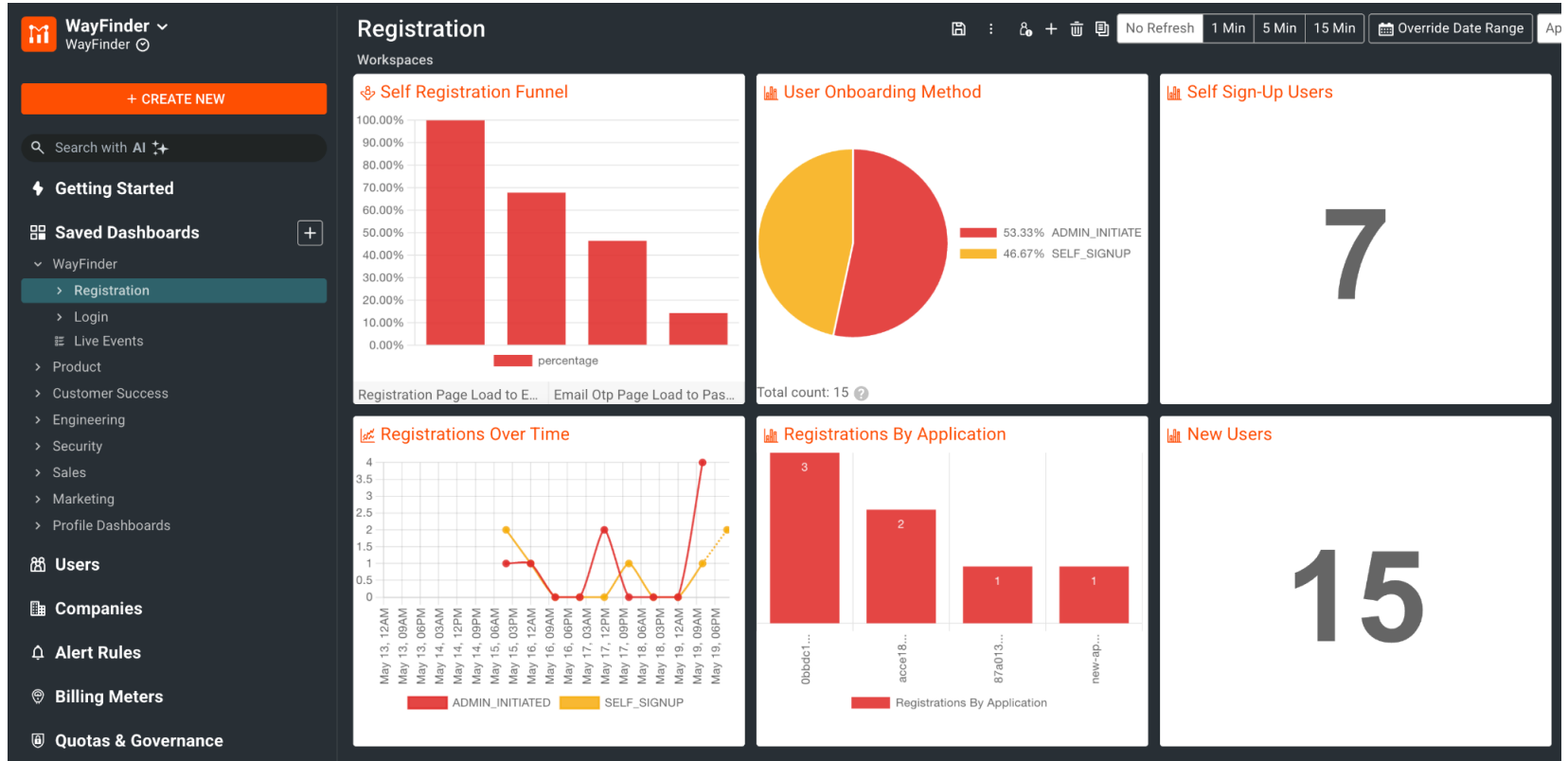
Ambient Agents



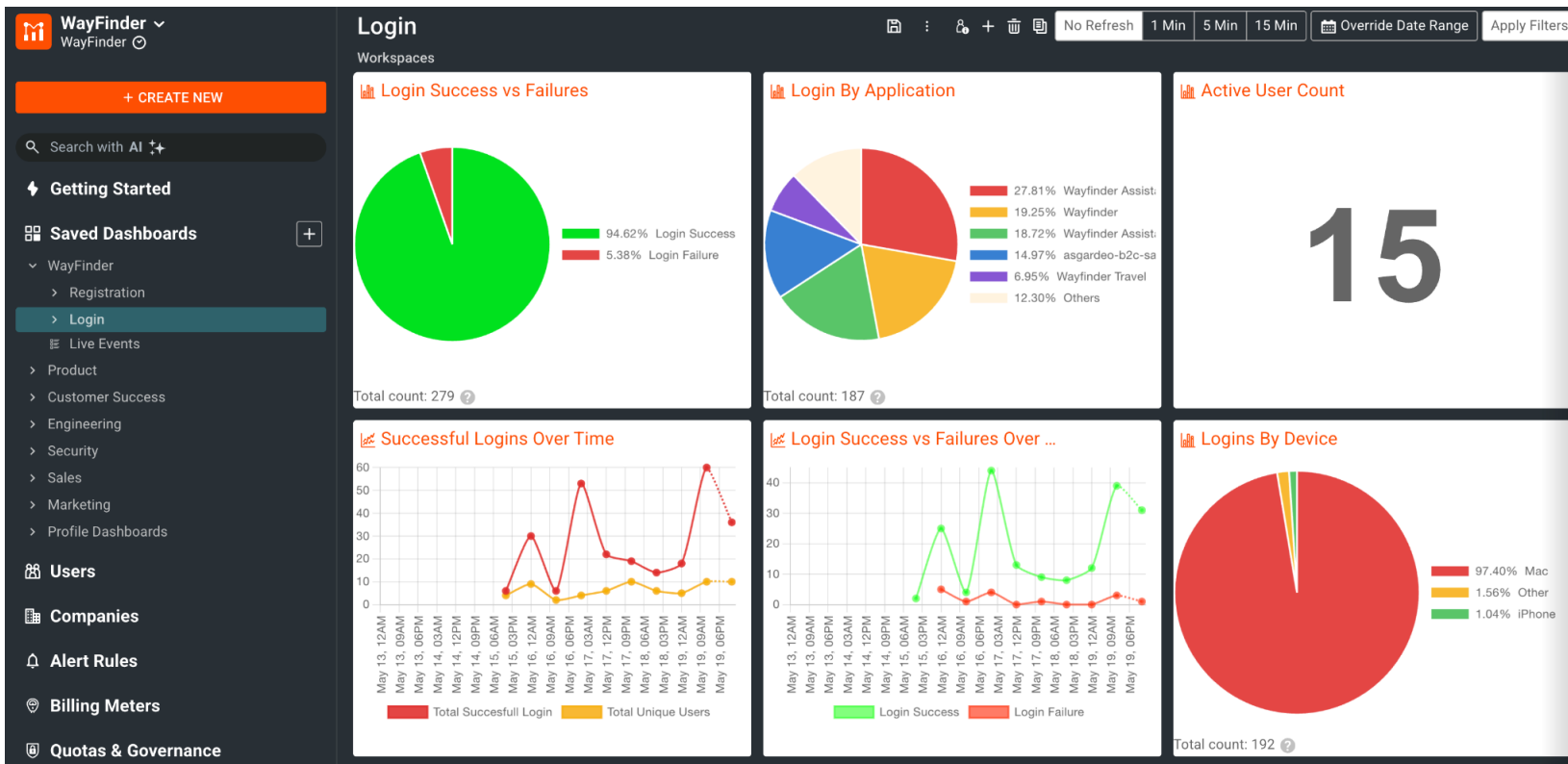
Asgardeo Events

In the **Moesif** Dashboards

Event-Driven Insights: Asgardeo to Moesif



Event-Driven Insights: Asgardeo to Moesif



WSO2 CIAM Roadmap Highlights

CIAM Roadmap Highlights - 2026 and 2027

- Introduce an AI-powered Copilot to perform product configurations through natural language interactions
- Support Verifiable Credential verification
- Deliver a digital wallet compliant with the EU Digital Identity Wallet and OpenWallet specifications for verifiable credential storage and presentation.
- Expand integrations with national digital identity systems
- Built-in management for Terms of Service and Privacy Policy versioning, with the ability to prompt and notify users of policy changes and handle re-consenting.



CIAM Roadmap Highlights - 2026 and 2027

- Extend orchestration capabilities
- Enable integration with external authorization engines using the AuthZEN specification.
- Extended SDK support for technologies such as Python, Ballerina, Go, iOS/Swift, Android/Kotlin and additionally component support for custom self service portals.
- Extended Agent IAM capabilities with:
 - Issuing verifiable credentials for agents, enabling trusted agent-to-agent and agent-to-service interactions.
 - Support for approval workflows for agent activities.
 - Adopting UMA 2.0 for agent authentication.
 - Provide integrations with LLM security platforms (e.g., AI Gateway).



Question Time!



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Thank You!

