📄 Product Overview: AppConfig²

What is AppConfig²?

AppConfig² is a powerful, all-in-one tool for managing, configuring, and testing **Microsoft Entra™ ID (Azure AD) applications**.

It simplifies **app registration management, authentication testing, and security analysis**, making it an essential tool for **developers, L3 operations teams, IT administrators, and security engineers**.

🔗 **Live Demo & More Info**: appconfig.app

Why Use AppConfig²?

- 🚀 **Faster & Easier Management** – Manage Entra ID app registrations in an intuitive, user-friendly interface.

- 🔍 **Enhanced Security & Compliance** – Detect misconfigurations and enforce security best practices.

- 🛠️ **Streamlined Troubleshooting** – Debug authentication flows, token claims, and API permissions without complex scripts.

- 📊 **Data-Driven Insights** – Use built-in **Graph Explorer** to analyze app configurations and permissions in real time.

- 🔄 **Test & Restore Configurations** – Easily test different app configurations and revert changes when needed.

📌 *AppConfig² eliminates the hassle of manually configuring and testing Entra ID applications, making identity management faster, safer, and more efficient.*

Key Features

✅ **Manage Redirect URIs** – Troubleshoot authorization issues by adding or removing URIs.

✅ **View & Decode Tokens** – Inspect OAuth2 and SAML tokens in real-time.

✅ **Customize Token Claims** – Modify token claims to test different authentication scenarios.

✅ **Register & Modify Applications** – Easily create and configure Entra ID app registrations.

✅ **Test Authentication Flows** – Validate OpenID Connect (OIDC), OAuth, and SAML flows.

✅ **Embedded Graph Explorer** – Query Microsoft Graph API to retrieve and manage Entra ID settings.

✅ **Backup & Restore Configurations** – Safely revert tested apps to their original settings.
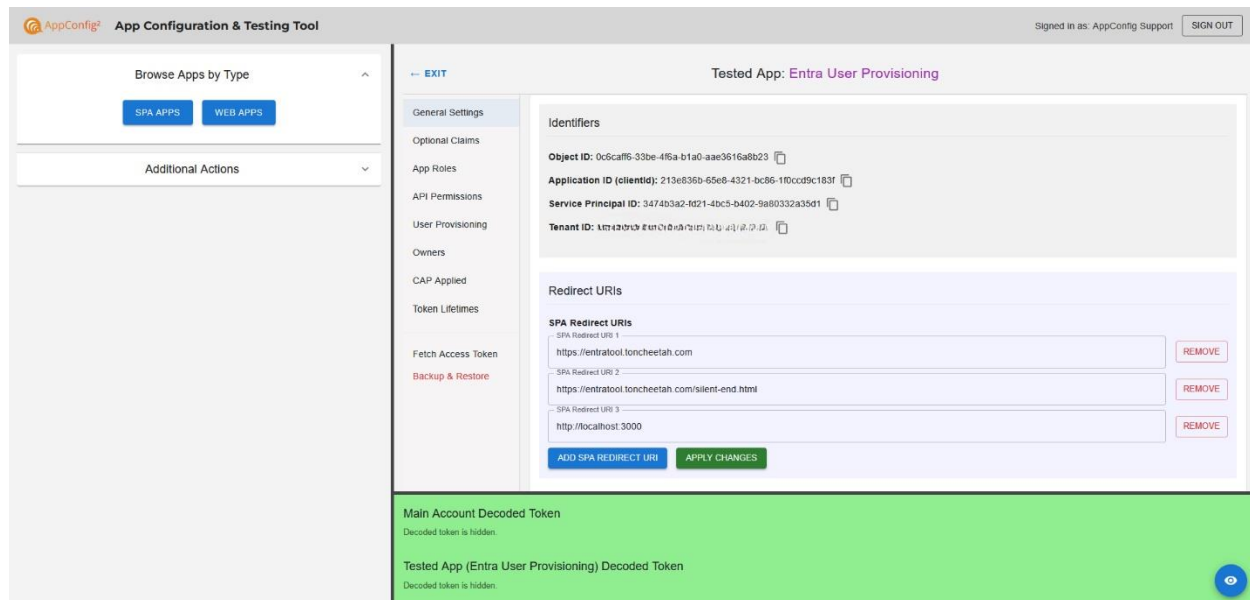
How It Works

1. **Sign in** using your **Microsoft Entra ID** account.
2. **Browse Applications** – Filter and select an application for testing.
3. **Modify & Test Configurations** – Adjust authentication settings, update API permissions, and test authentication flows.
4. **Analyze Tokens** – Decode access tokens and validate authentication responses.
5. **Restore & Secure** – Backup settings and restore configurations as needed.

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Who Should Use AppConfig^2?

👨‍💼 **Developers** – Debug authentication flows and troubleshoot app registrations.

🔐 **Security Engineers** – Validate security settings and enforce compliance best practices.

🛠️ **IT Administrators** – Manage Entra ID applications with ease.

🎯 **L3 Support Teams** – Diagnose and resolve authentication issues faster.

📌 *AppConfig^2 is built for professionals managing identity and authentication systems within Microsoft Entra ID environments.*

Detailed Capabilities

1. User Authentication & Authorization

- Secure login via **MSAL (Microsoft Authentication Library)**.

- Supports **popup-based authentication**.

- Retrieves **user display name** upon login.

- Handles **MSAL initialization and authentication errors gracefully**.

2. Application Listing & Filtering

- Fetches all **registered applications** from **Microsoft Graph API**.

- Allows filtering based on **application type (SPA or Web)**.

- Displays applications in an intuitive UI.

3. Application Selection & Configuration

- Select an application and access its **detailed settings**.

- Configure **authentication methods, token lifetimes, and redirect URIs**.

- Modify **App Roles, API permissions, and owners**.

4. Application Testing

- Provides a **real-time testing environment** for authentication & authorization.

- Modify settings dynamically and **test their effects immediately**.

- Supports **user impersonation & permission validation**.

- Displays **decoded access tokens** for verification.

5. Token Decoding & Visualization

- Decodes **JWT access tokens** and extracts key claims.

- Displays token contents in an **easy-to-read format**.

- Supports **token comparisons between test accounts**.

6. Graph Explorer Integration

- Provides an **interactive API tester** for **Microsoft Graph API**.

- Supports **GET, POST, PATCH, DELETE** requests.

- Displays **formatted API responses**.

7. Authentication Flow Tester

- Tests **various authentication scenarios**.

- Validates **token generation and permission assignments**.

8. New Application Registration

- Enables **direct registration of new applications**.

- Supports **SPA and Web applications**.

- Configures **initial Redirect URIs and Sign-In Audience**.

9. Backup & Restore

- Create a **backup of current application settings** before modifying.

- Restore settings **in case of misconfigurations**.

10. Application Role & API Permission Management

- **Add, modify, and remove App Roles** dynamically.

- **Manage API permissions**, including **scopes and delegated permissions**.

- Uses **Microsoft Graph API for real-time permission resolution**.

11. Owner Management

- Assign and remove **application owners**.

- Resolves owner details **via Microsoft Graph API**.

Why AppConfig²?

Traditional methods of managing Entra ID applications require manual configurations, PowerShell scripts, and navigating complex settings within Azure. **AppConfig² simplifies this by offering:**

✔ **A single, unified interface** for all application configurations.
✔ **Automated testing & validation** for security and compliance.
✔ **Faster issue resolution** by eliminating guesswork in troubleshooting authentication flows.
✔ **A backup and restore mechanism** for risk-free experimentation.

Try AppConfig² Today!

🔗 **Live Demo**

📌 *For inquiries or enterprise solutions, contact us at support@appconfig.app.*