User Manual2

Version: Final (2025-09-29) — Matches the shipped system: React UI, Express API, Python scan engine (TCP), Supabase.

AT-AT — Comprehensive User Manual

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1. Introduction

APIs have become a critical component of modern software systems, enabling seamless data exchange and integration across applications. However, this growing reliance on APIs also increases their exposure to security threats such as unauthorized access, data breaches, and injection attacks. The API Threat Assessment Tool provides a comprehensive solution for identifying, analyzing, and mitigating these risks. This manual introduces the tool, outlines its features, and guides you through its installation, configuration, and usage to ensure your APIs remain secure and compliant with industry standards.

1.1. Purpose of the Tool

The API Threat Assessment Tool is designed to help developers, security analysts, and system administrators identify, assess, and mitigate potential security risks in APIs. With the increasing reliance on APIs for application integration and data exchange, ensuring their security is critical to prevent data breaches and maintain system integrity.

1.2. Why It’s Important

APIs are a common target for cyberattacks, such as injection attacks, broken authentication, and data exposure. This tool addresses these threats by providing automated scanning, threat detection, and actionable security recommendations.

1.3. Key Features

• Users can import an API specification either by uploading a YAML or JSON file or by entering API details manually. • Add and manage endpoints and tags to ensure all relevant parts of the API are included in the assessment. • Scan the API against the OWASP Top 10 API Security Risks, either all at once for a complete assessment or individually for targeted checks. • Generates a comprehensive security report after each scan, highlighting vulnerabilities and providing

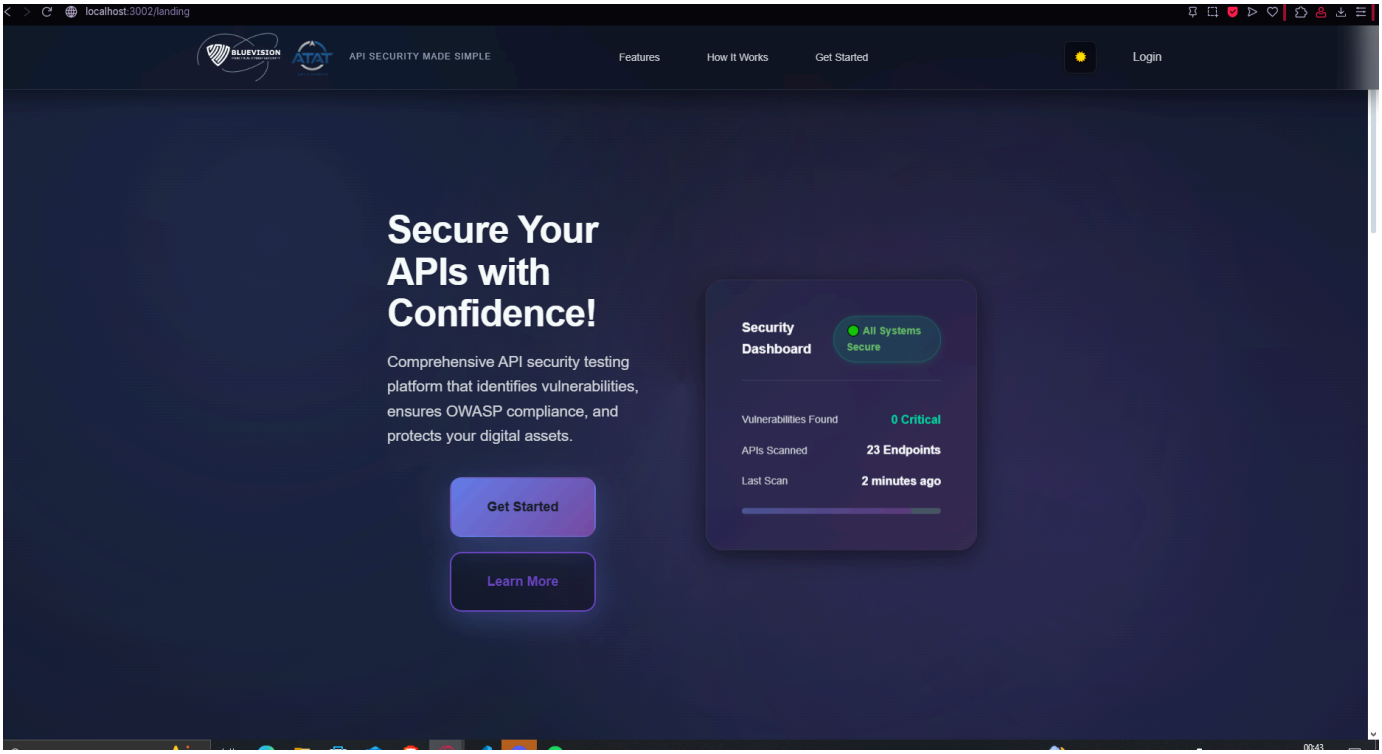
actionable recommendations. • Ability to select specific security checks based on your organization's priorities or compliance requirements. API Threat Assessment Tool – User Manual

1.4. Scope of the Manual

This manual will guide you through the configuration and usage of the API Threat Assessment Tool, enabling you to protect your APIs from common and emerging threats effectively. NB – For ease of use, Chrome and Microsoft Edge browsers are recommended.

- **You bring:** your API spec (OpenAPI).
- **AT-AT provides:** guided workflows for **importing**, **scanning**, **reviewing results**, **tagging/flagging**, and **sharing** summaries.

Supported browsers: latest Chrome or Edge (recommended).

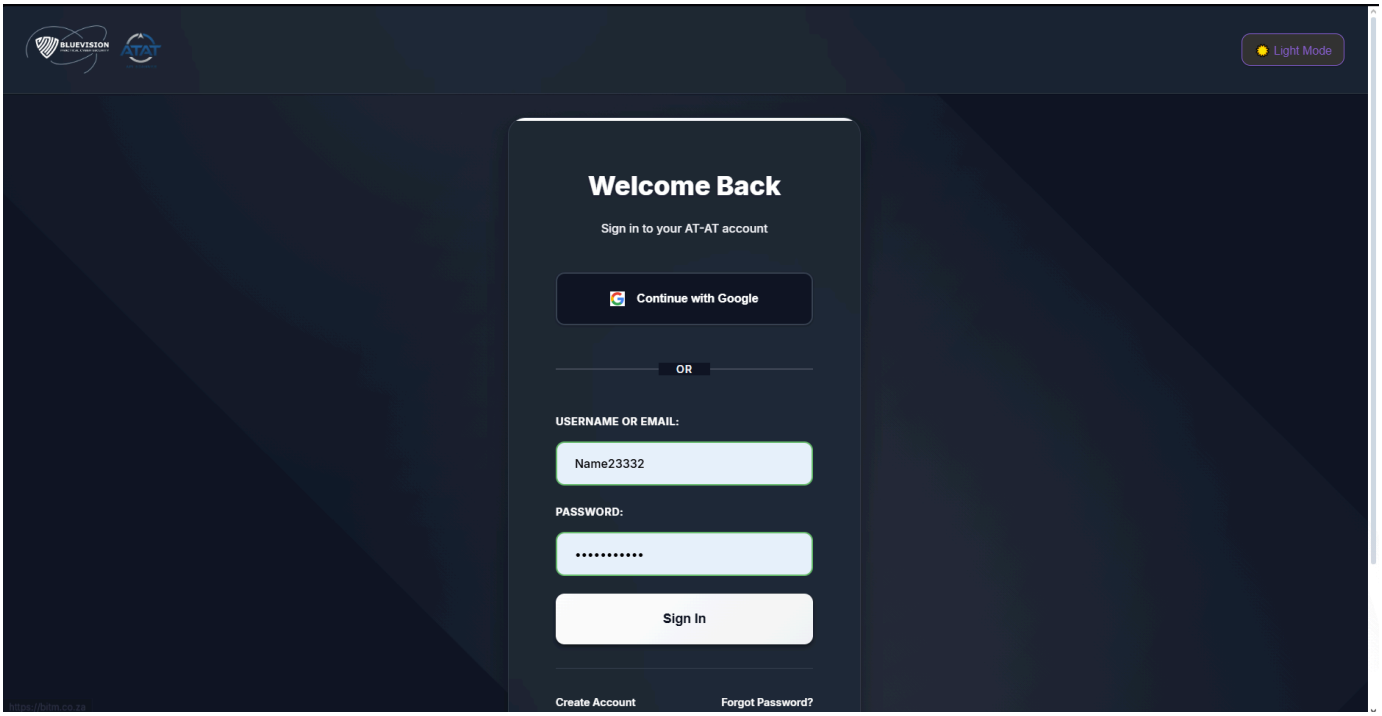


Quick Start

1. **Sign in** or **create an account**.
2. **Import** your API (OpenAPI JSON/YAML) or **Add API** details manually.
3. **Start a scan** using a profile/check set.
4. **Monitor progress** and **view results**.
5. Use **tags/flags** to triage; **share** summaries if needed.

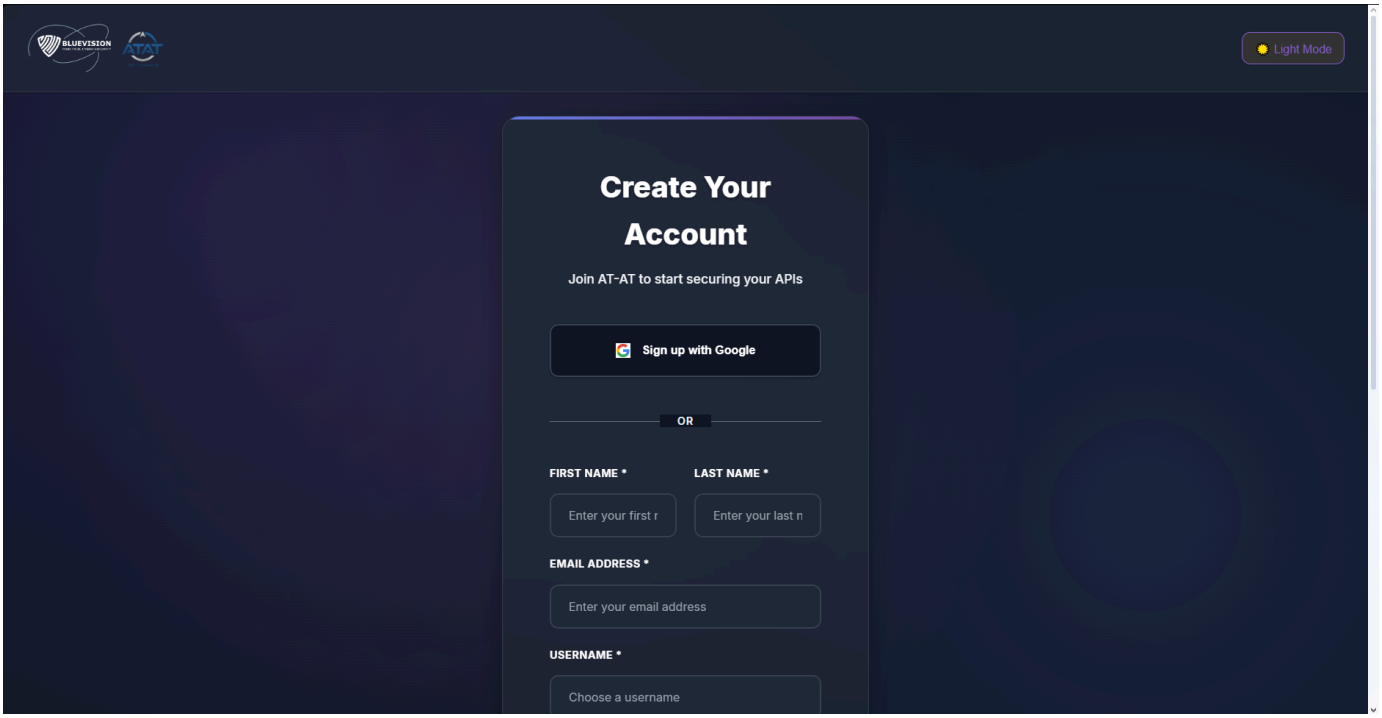
Signing In & Account Access

Login



- Enter **email/username** and **password**.
- Use **Forgot password** if you can’t sign in.
- New here? Click **Create account**.

Create an Account



- Provide **first name**, **last name**, **email**, **username**, and **password**.

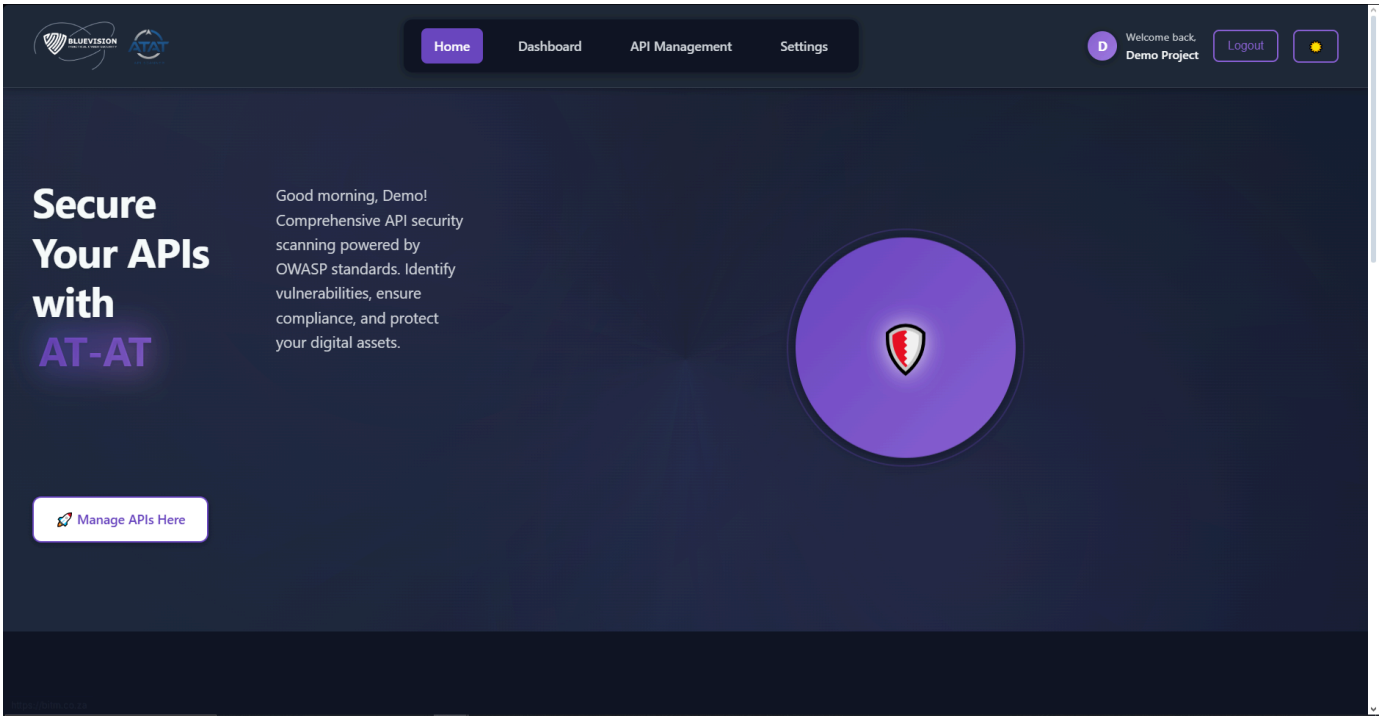
- Accept **Terms & Conditions** to complete registration.

Forgot / Reset Password

- **Forgot:** request a reset link; the app returns a generic success message (prevents user enumeration).
- **Reset:** open the link from your email and set a **new password**.
- Tokens are **one-time** and expire after **60 minutes**.

Home

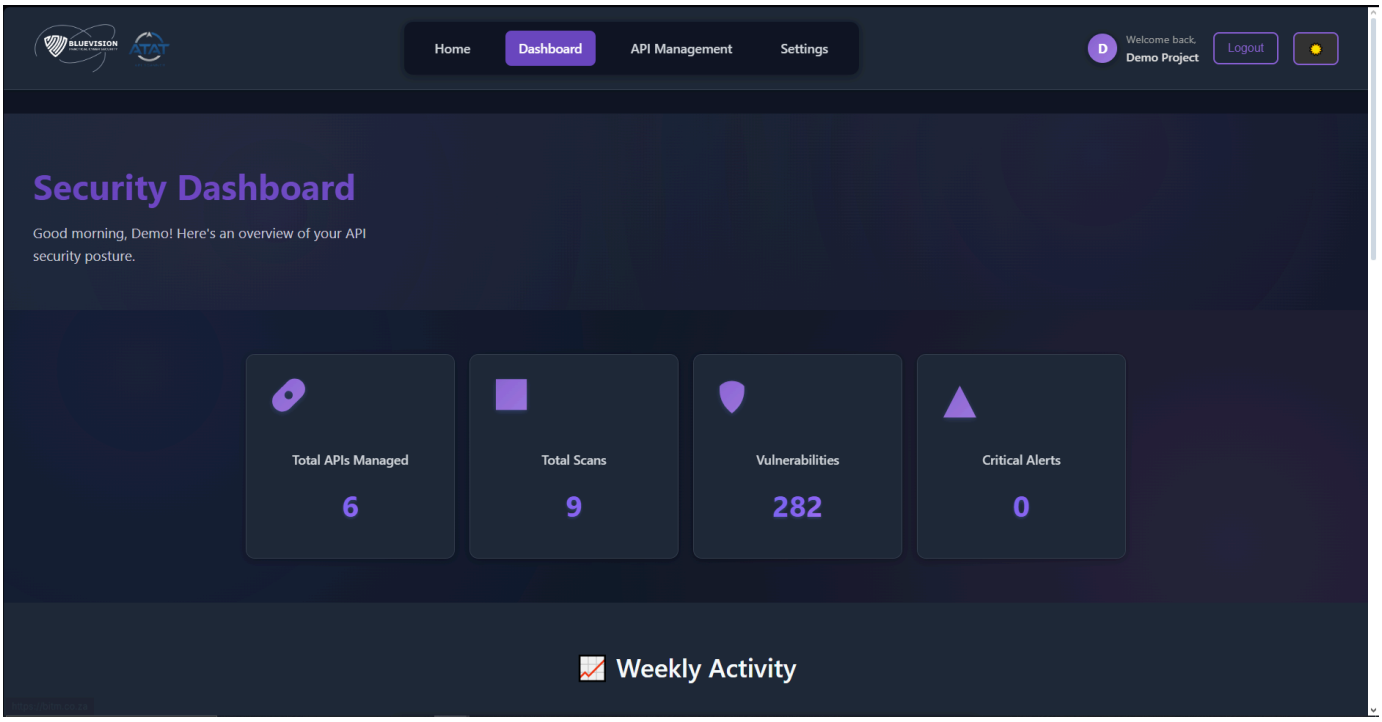
The Home screen centralizes your primary actions.



- **Run a Scan** — launch the scan flow.
- **Explore Templates** — browse preconfigured check sets.
- **View Reports** — open recent results.
- **Manage APIs** — add/import and configure your APIs.

Dashboard

The Dashboard aggregates key indicators and provides shortcuts to run scans or view reports.



Metrics

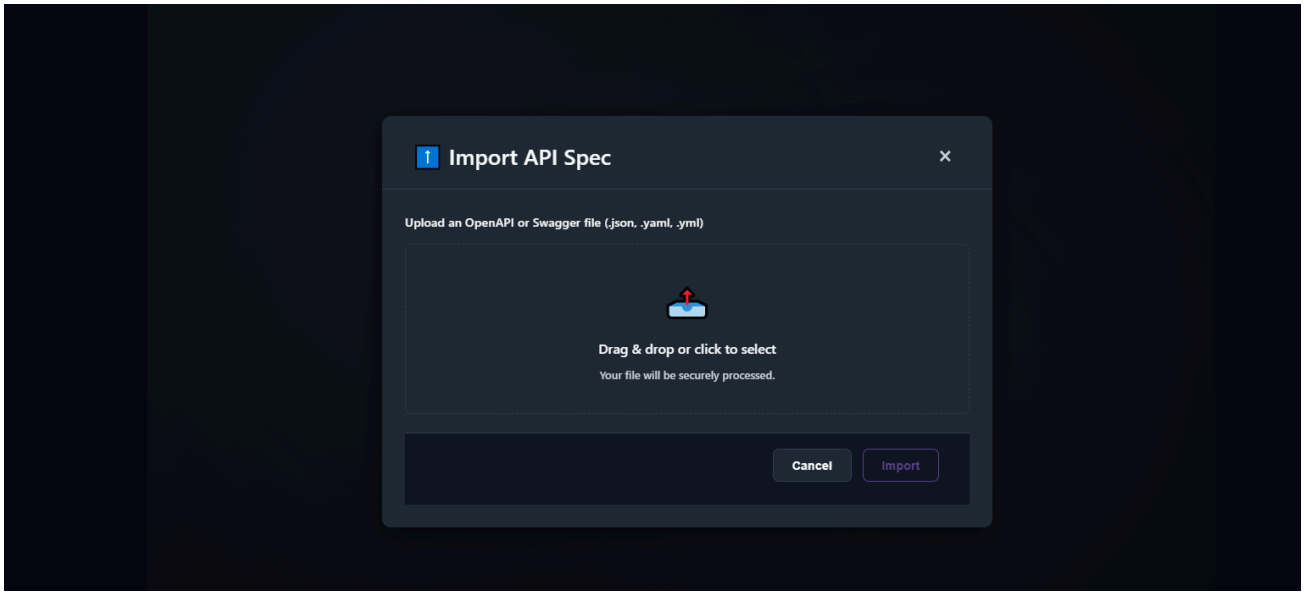
See high-level stats, recent activity, and quick links to frequent actions.

Running Scans

Configure a Scan

From Dashboard or API pages:

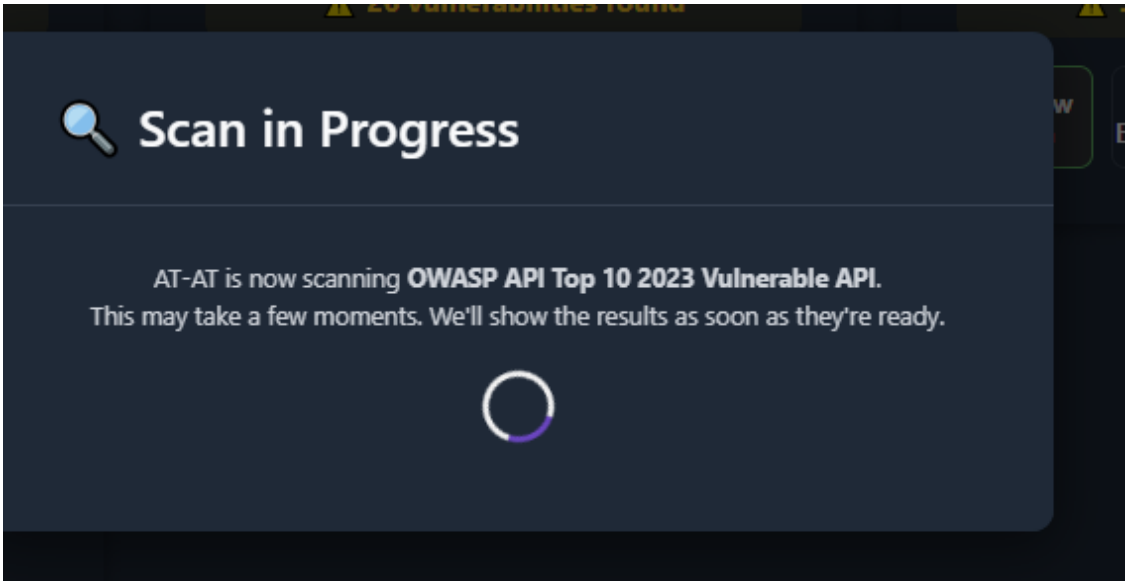
1. Select an **API**.



2. Choose a **profile** or **checks**.
3. Click **Start Scan**.

Monitor Progress

- Watch status updates during execution.

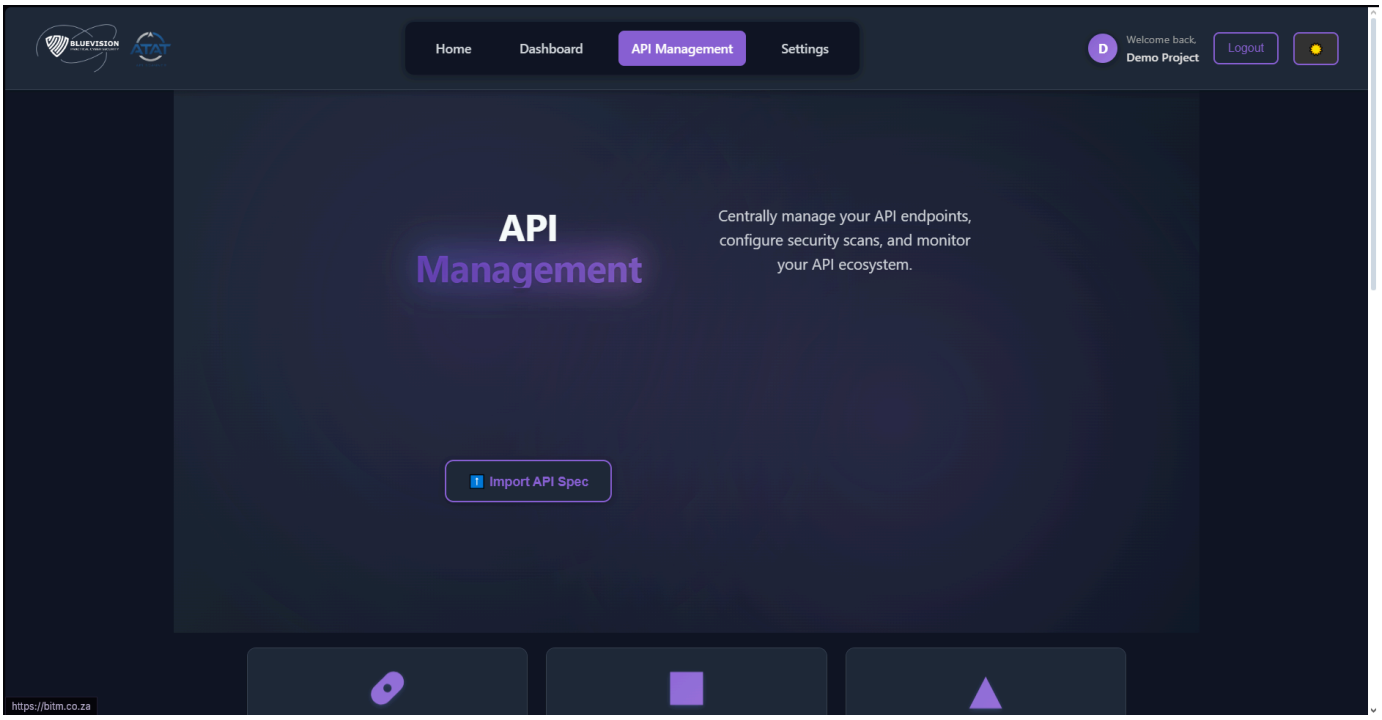


Quick Actions

- **Manage APIs** — go to API management
- **Scan Templates** — open template library
- **Account Settings** — update your profile
- **Documentation** — open help resources

Managing APIs

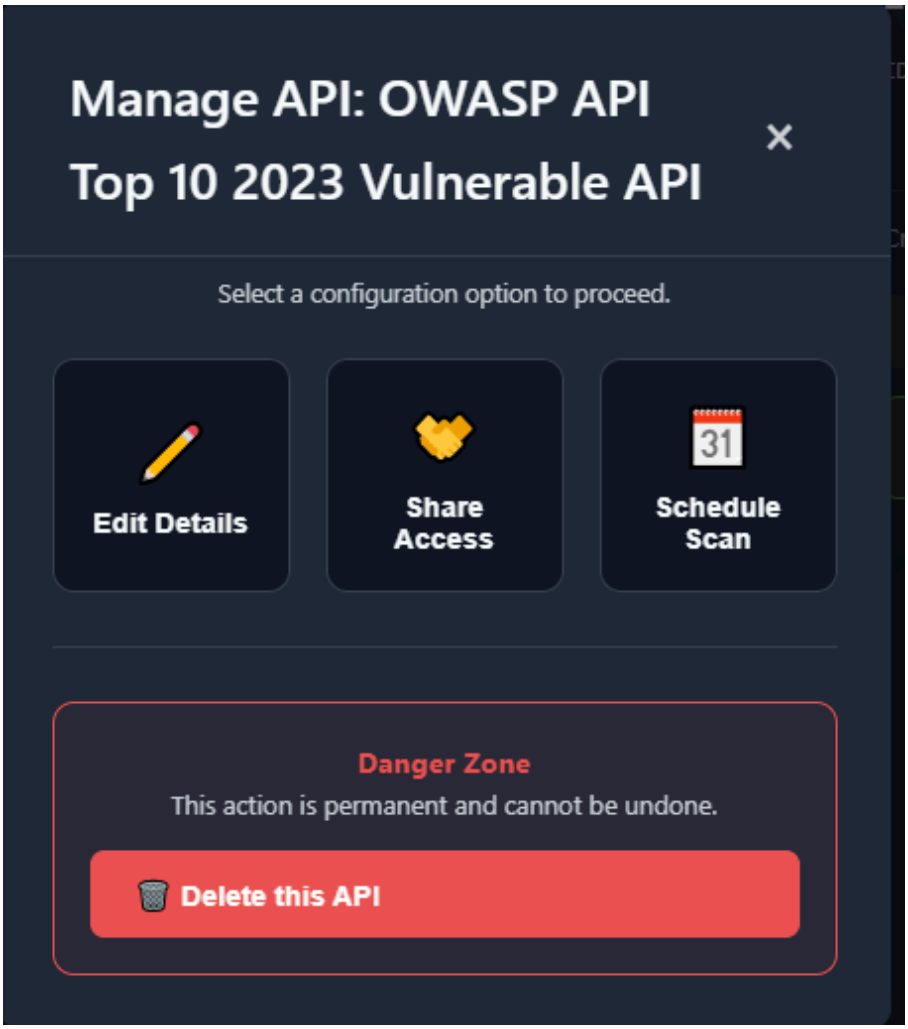
Centralize all the APIs you assess: import, edit, and organize.



Add API (manual)

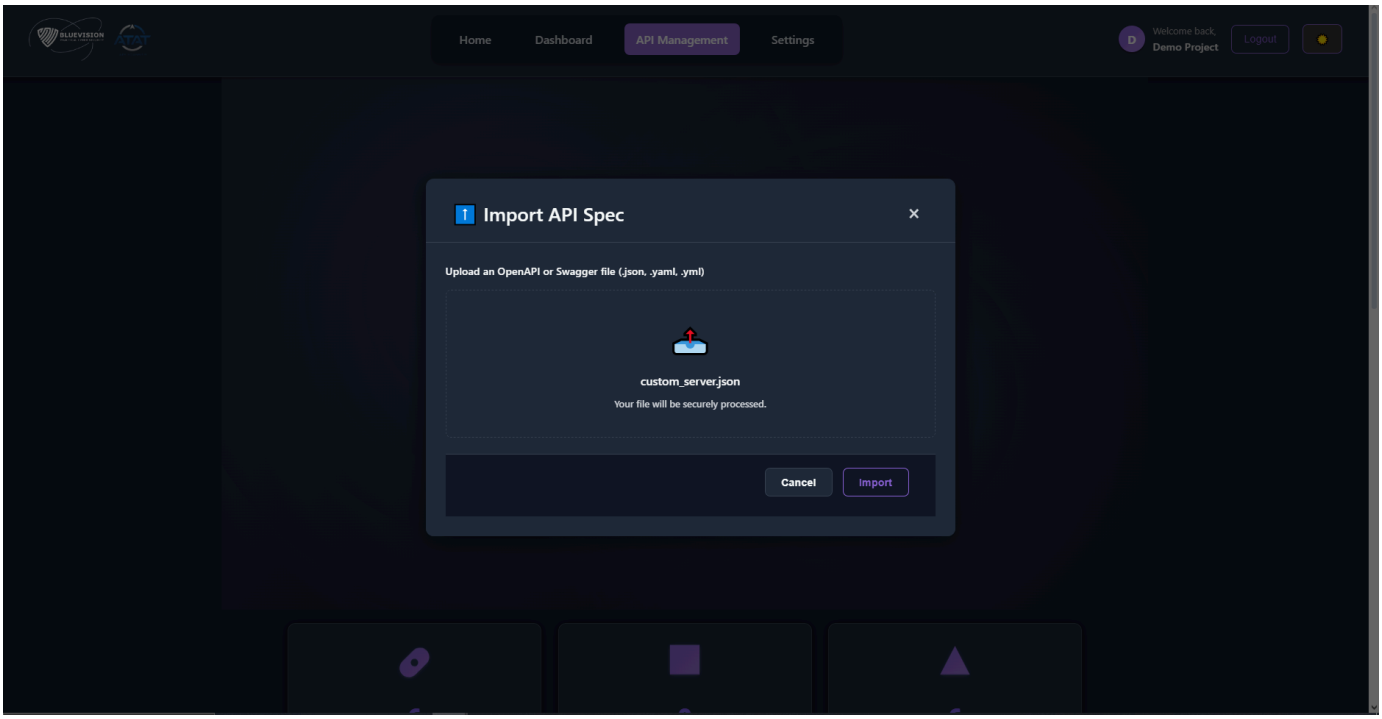
Click **Add API** and enter the basics:

- **Name**, **Base URL**, **Description** (optional)



Import OpenAPI (JSON/YAML)

Import a **.json** or **.yaml/.yml** OpenAPI file. The app validates file type/size and parses endpoints.

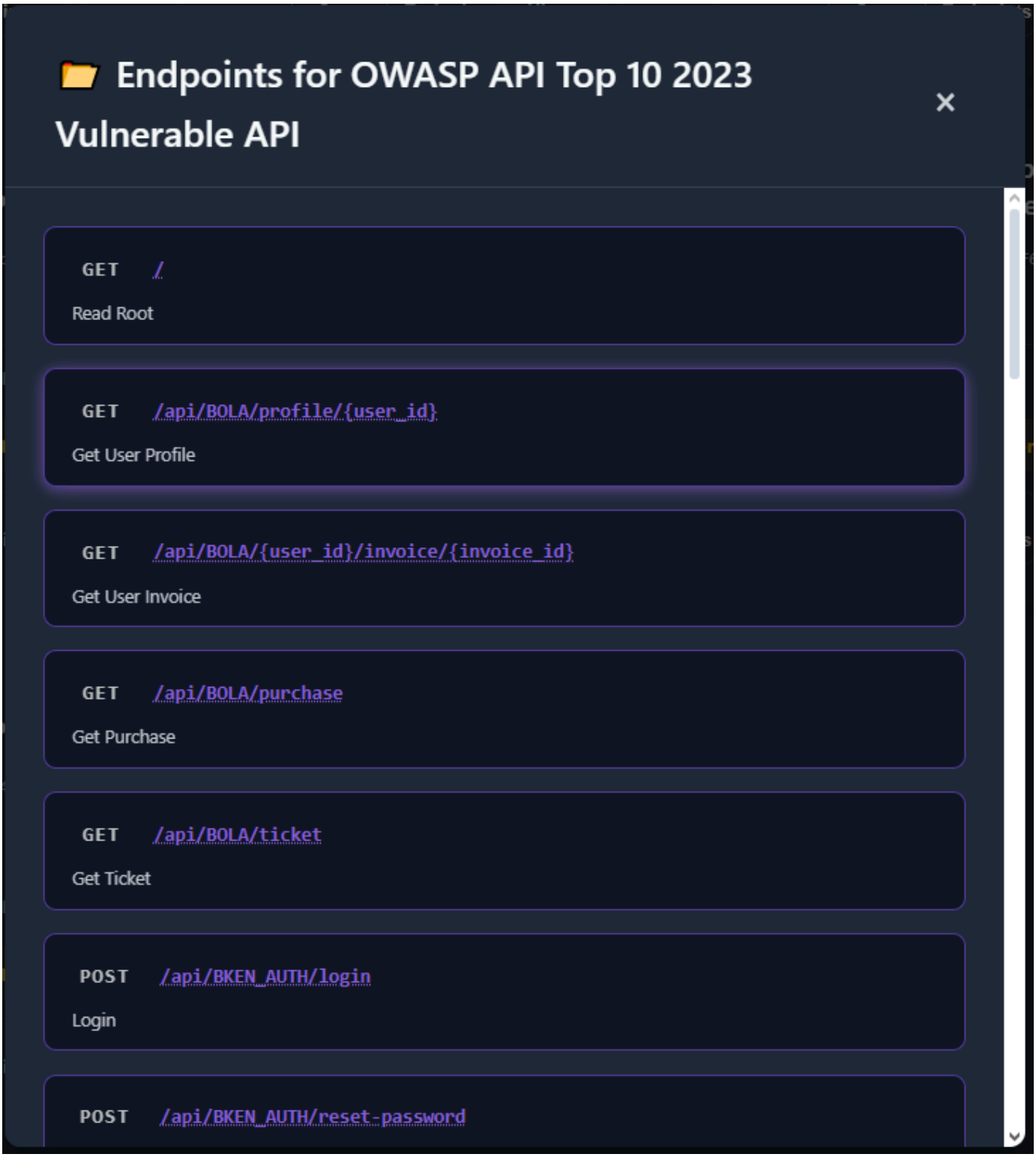


Tips

- Keep your spec valid (use an OpenAPI linter if possible).
- Large specs import faster if you remove unneeded examples/schemas.

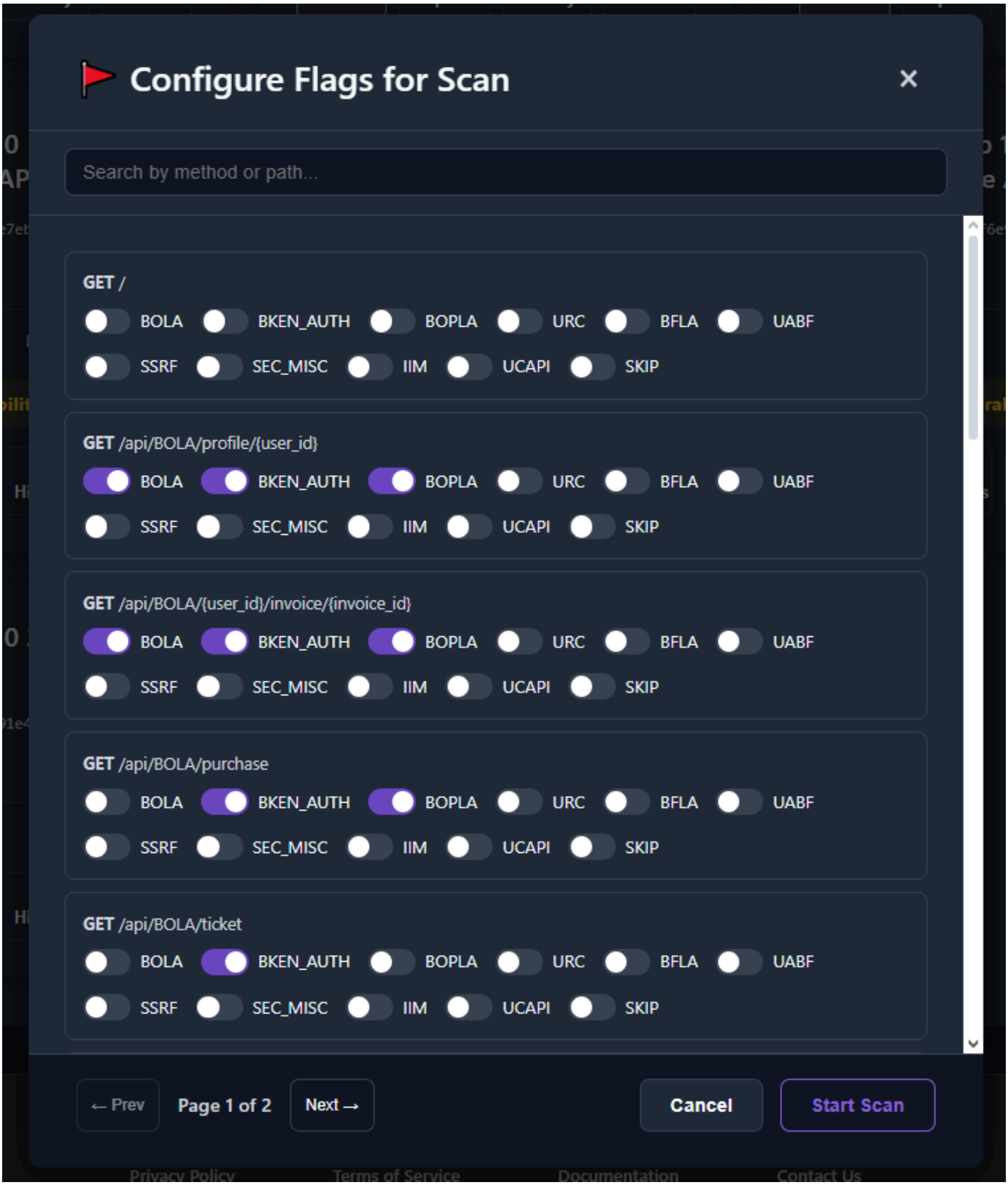
Endpoints & Details

Review endpoints derived from your spec: method, path, parameters, and descriptions.



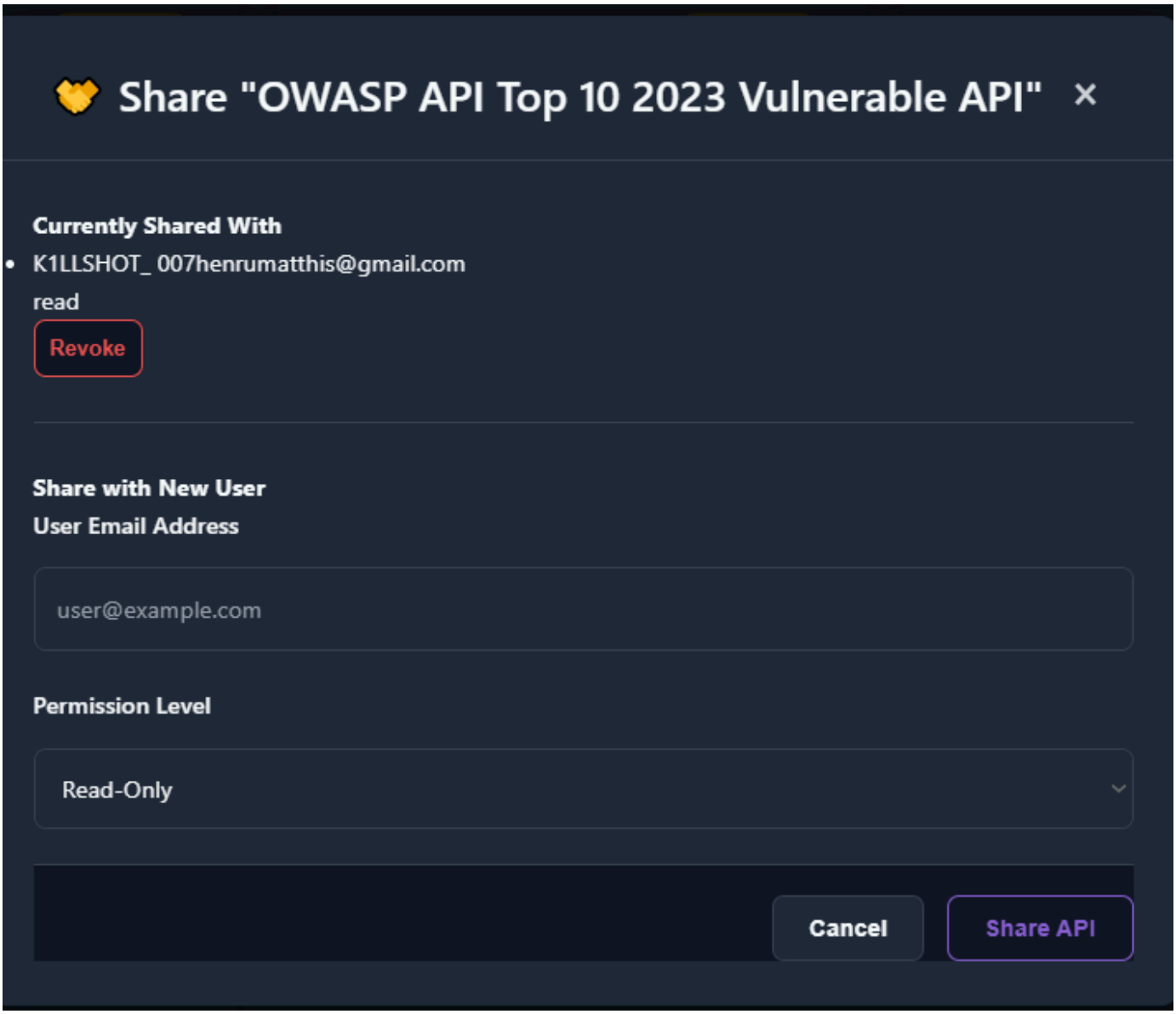
Tags & Flags

Use **tags** to categorize, and **flags** to highlight priority items.



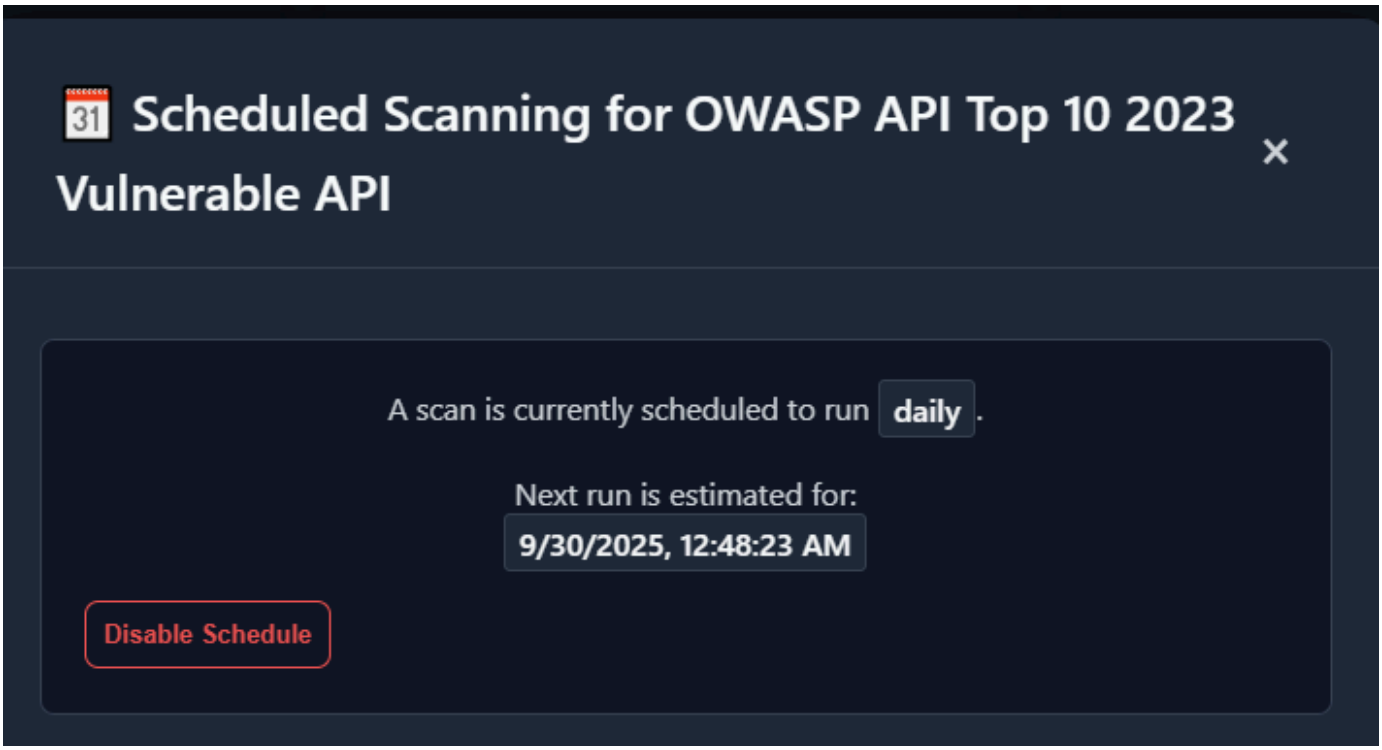
Sharing

Share summaries where appropriate (e.g., to your team).



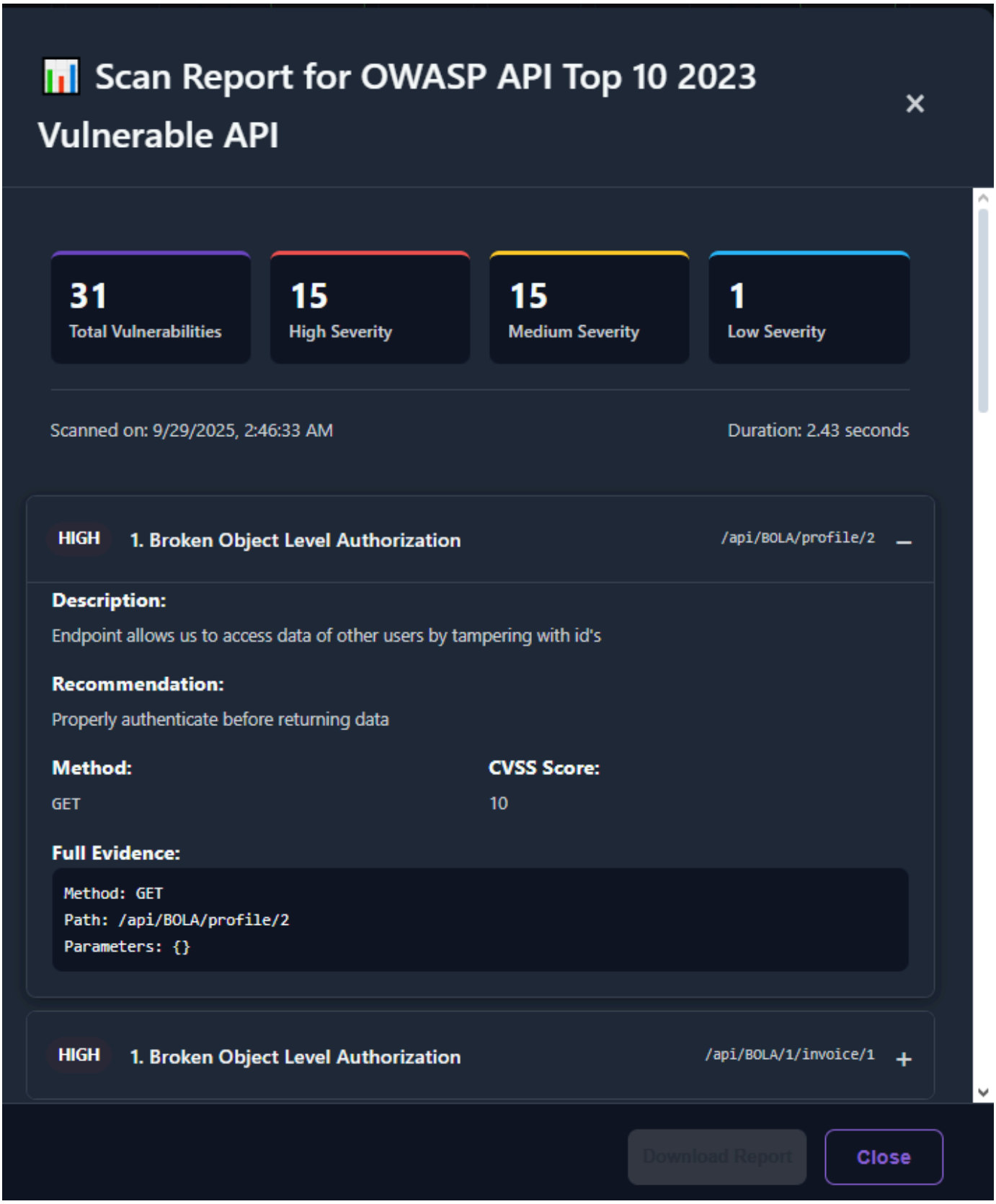
Scheduling Scans

Schedule recurring scans if your build supports it.



View Results & Reports

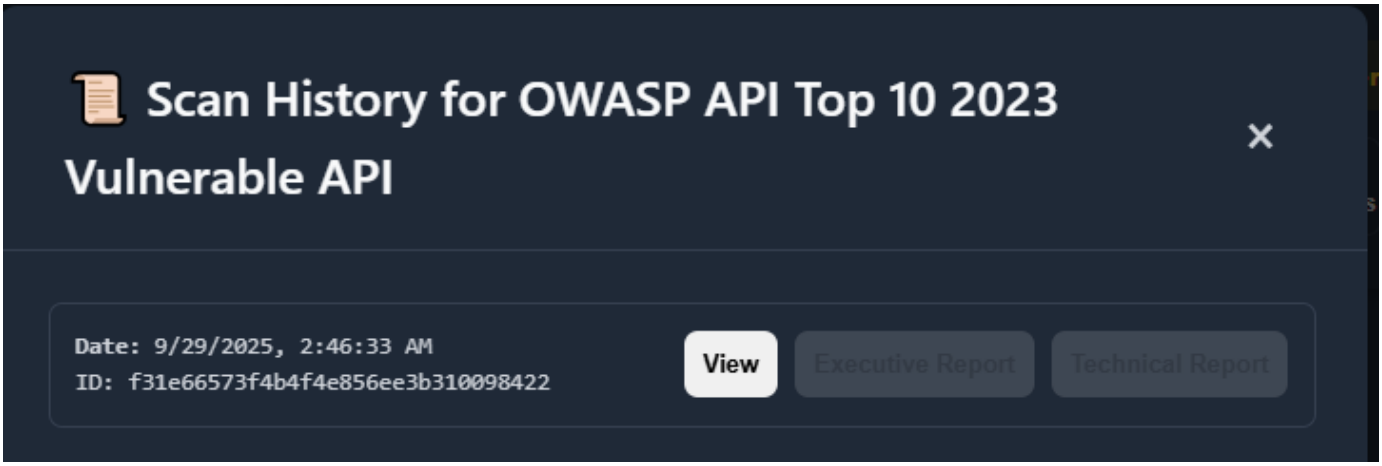
When complete, open the report to inspect findings.



- Group by **risk/test** or **endpoint**.
- Drill down to see **evidence** and guidance.
- Export **HTML/JSON** where available. *(PDF export is not part of this build.)*

History & Reports

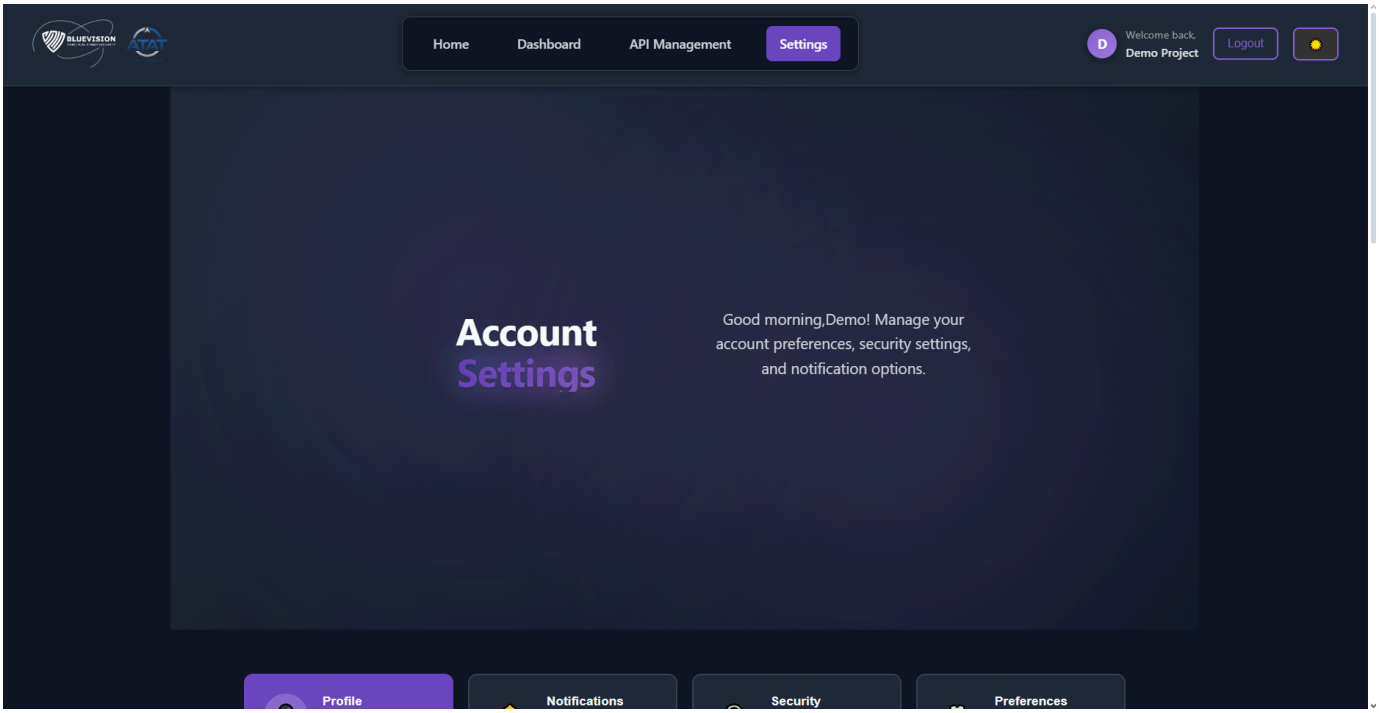
Browse past scans, filter by API or date, and re-open reports.



Tip: Use tags/flags to curate a shortlist for review meetings.

Settings

Update your profile, change your password, and adjust preferences.

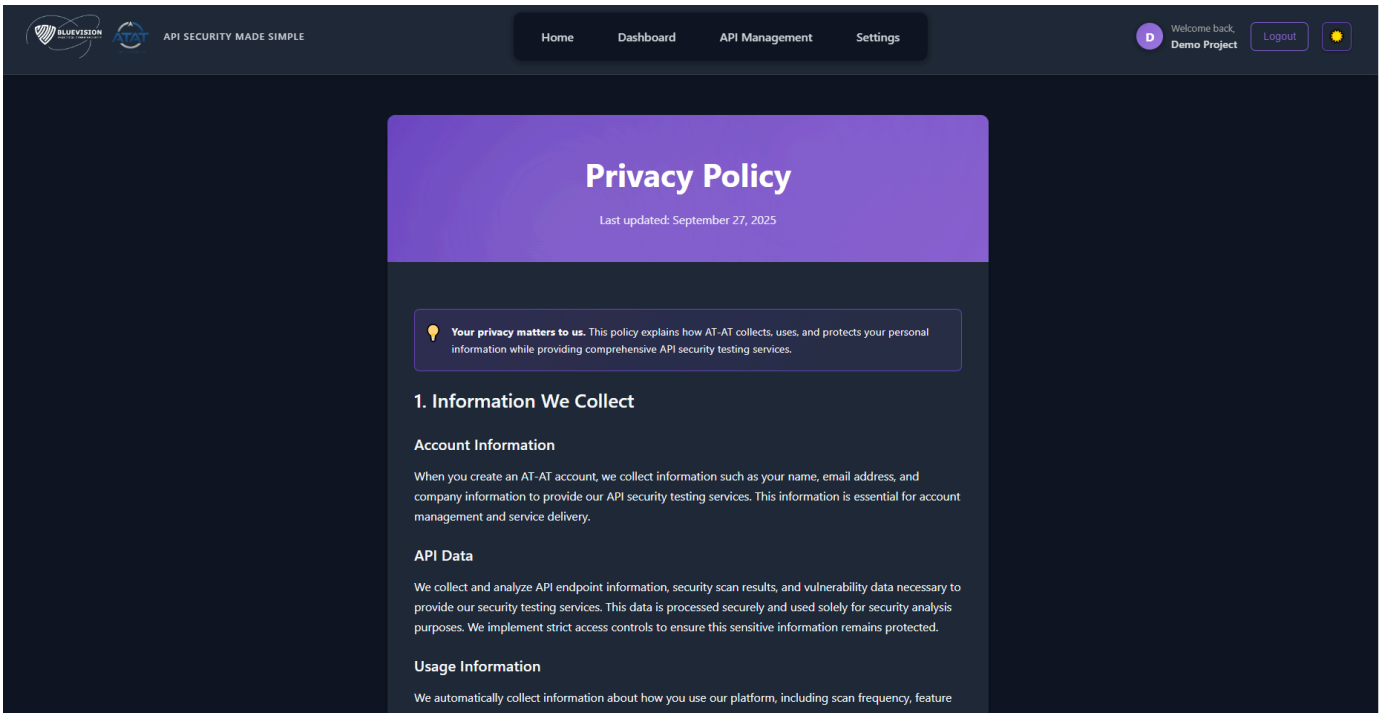


- **Profile**: name, email (verification may be required for changes)
- **Security**: change password
- **Preferences**: theme and UI options
- **Notifications**: enable/disable categories

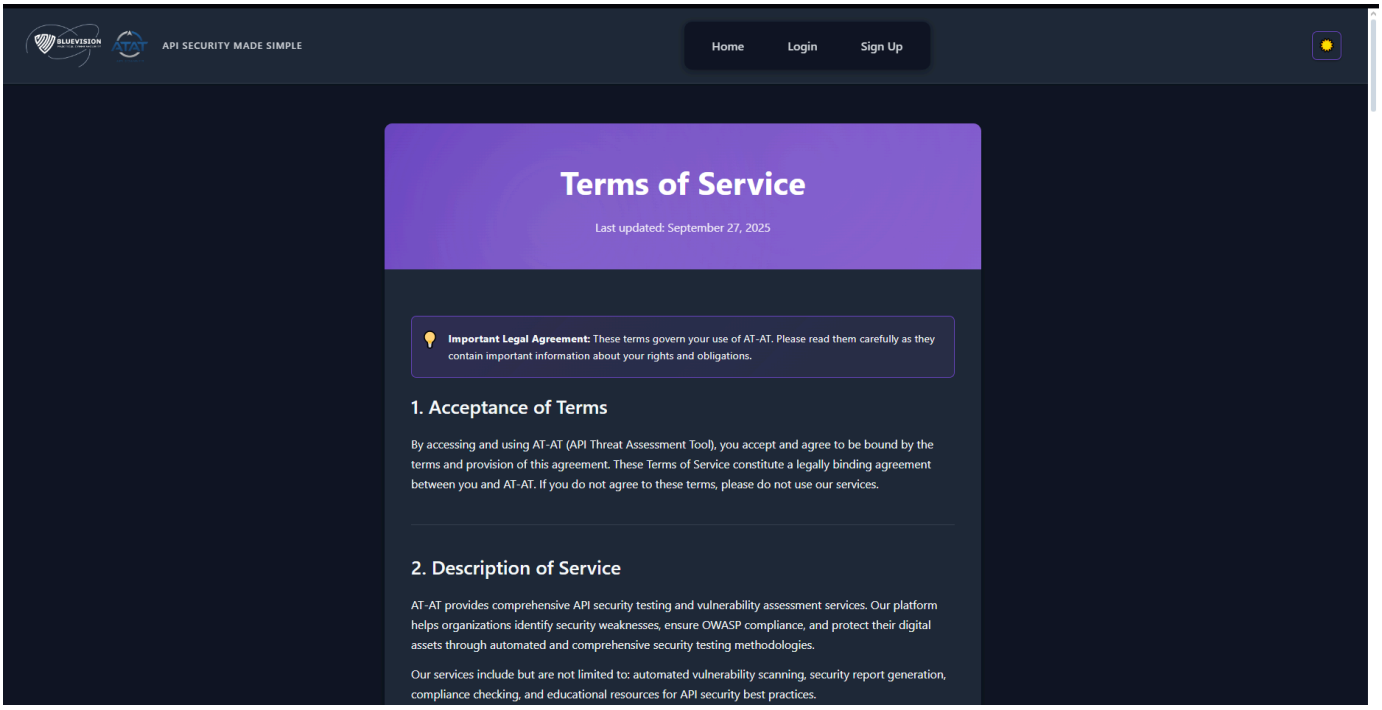
Help, Privacy & Terms

Access help resources and review your legal documents.

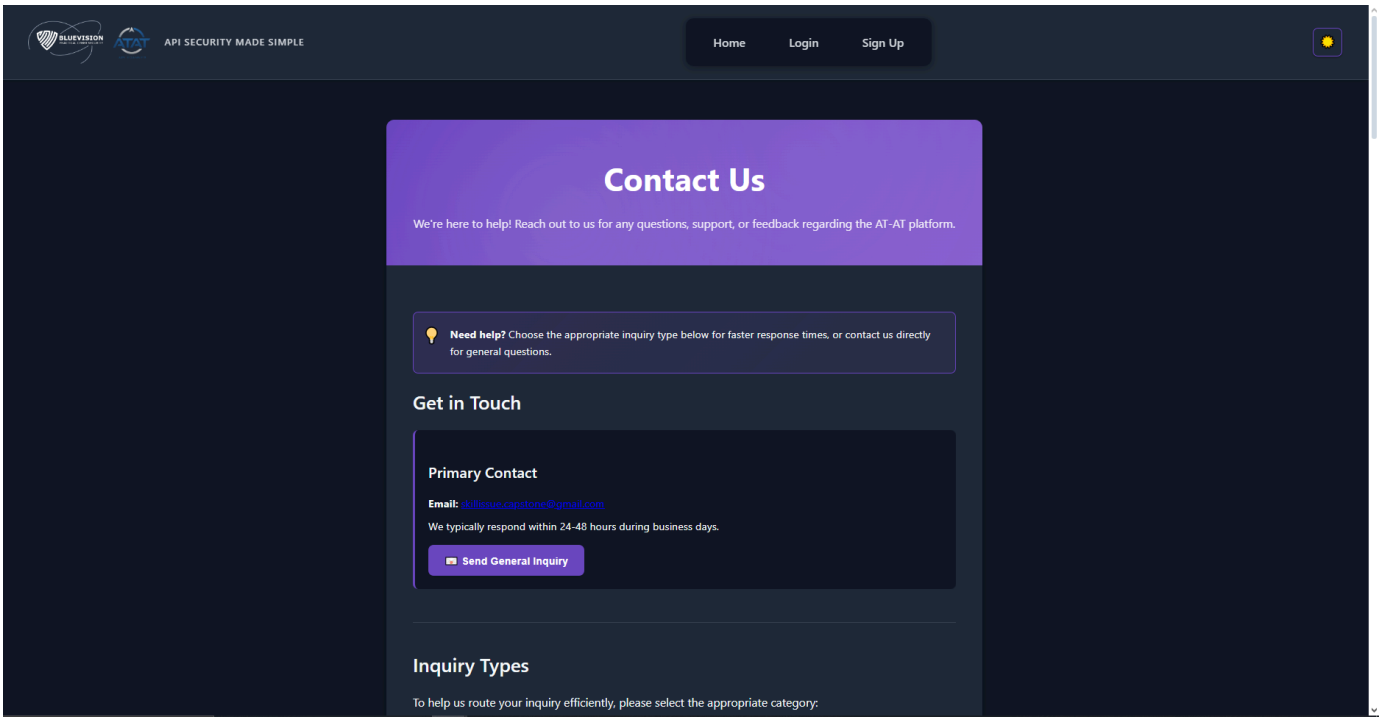
Privacy Policy



Terms of Service



Contact Us



Troubleshooting

I can't log in

- Check your email/username and password.
- Use **Forgot password** to reset credentials.

Import failed

- Ensure the file is **.json** or **.yaml/.yml**.
- Validate your spec (OpenAPI 3.x recommended).
- Large specs: remove excessive examples or unused schemas.

No results after starting a scan

- Confirm the **engine** is running (if self-hosted).
- Re-open the **History** tab to check status; refresh if needed.

Screens look different

- You may be on a newer build; this manual targets the final Demo-4 release.

FAQ

Q: Do I need an OpenAPI file?

A: Yes. Scans are driven by your uploaded spec (JSON/YAML).

Q: Can I export PDF?

A: Not in this build. Use **HTML/JSON** exports where available.

Q: Are role-based permissions supported?

A: This build uses **JWT** on selected routes; fine-grained RBAC is out of scope.

Q: Can I schedule scans?

A: If your environment enables scheduling, the UI provides a Schedule option (see screenshot).

Keyboard & Productivity Tips

- **Search (/) or Ctrl/Cmd+K**: jump to features.
- **Use tags/flags**: group hot items for triage.
- **Open results in a new tab**: keep context while reviewing multiple endpoints.

Glossary

- **OpenAPI**: a standard for describing REST APIs.
- **Endpoint**: an API method+path (e.g., `GET /users`).
- **Tag/Flag**: labels to organize and prioritize items.
- **Profile/Checks**: sets of security tests to run.
- **Report**: the findings produced after a scan.

End of manual.