



TIBCO Flogo[®] Enterprise

Security Guide

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Security Features

TIBCO Flogo® Enterprise includes the following security features:

- Flogo® Enterprise uses TLS for triggers such as the ReceiveHTTPMessage REST trigger, GraphQL trigger, and the gRPC trigger.
- The InvokeRESTService activity supports server authentication using SSL certificates.
- Some Flogo Enterprise connectors use HTTPS for clients to connect securely to the services.
- Flogo Enterprise gives you the ability to store app secrets in external configuration management systems.

You can encrypt the password values using an internal proprietary utility and then store the encrypted value in an external configuration management system. This prevents the Secret from being exposed in plain text format.

- You can set API keys that can be used to register their app with Flogo Enterprise monitoring. This mitigates the vulnerability of your app.
- For advanced security capabilities, we recommend using specialized solutions such as API Gateway.

Security Vulnerabilities

This topic describes the key security technologies for Flogo Enterprise software. In addition to these key technologies, security also depends in part upon the correct use of its capabilities.

- Unauthorized access to the UI or your development environment

Make sure you do not share your Flogo Enterprise installation with other users. Do not allow other users to remote login to your machine and use your Flogo Enterprise installation. Do not give the host IP or name of the machine on which your Flogo Enterprise is running to another user. Doing so allows the user to access your Flogo Enterprise installation from a remote browser by constructing the URL (`http://<your_machine_IP>:8090`) with your IP. If your IP is publicly accessible, your apps can be compromised.

- Flogo Enterprise uses some third-party software, for example, Docker and OpenSSL. If the security of the third-party software gets compromised, it can compromise the security of the UI too.
- Currently, Flogo Enterprise does not support HTTPS to secure communication from the browser to the server. Hence, we recommend that the browser used to access Flogo Enterprise reside on the same machine as your Flogo Enterprise installation.

Product Connectivity

Flogo Enterprise follows the client-server model.

Developing Secure Apps

Make sure that the browser you use to access your Flogo Enterprise installation resides on the same machine as the Flogo Enterprise installation. Do not allow your Flogo apps to be accessible from outside your machine.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [TIBCO Product Documentation](#) website, mainly in HTML and PDF formats.

The [TIBCO Product Documentation](#) website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO Flogo® Enterprise is available on the [TIBCO Flogo® Enterprise Product Documentation](#) page.

The following documents for this product can be found on the TIBCO Documentation site:

- *TIBCO Flogo® Enterprise Release Notes*
- *TIBCO Flogo® Enterprise Installation*
- *TIBCO Flogo® Enterprise Quick Start*
- *TIBCO Flogo® Enterprise User Guide*
- *TIBCO Flogo® Enterprise Activities, Triggers, and Connections*
- *TIBCO Flogo® Enterprise Security Guide*
- *TIBCO Flogo® Enterprise Transition Guide*
- *TIBCO Flogo® Enterprise Mapper Functions Guide*

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extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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