

Application Authenticity

Overview

By issuing an HTTP request, any entity can access the HTTP services (APIs) that IBM MobileFirst Platform Foundation Server offers.

The out-of-the-box Application Authenticity security check ([../authentication-concepts/](#)) ensures that an application that tries to connect to a MobileFirst Server instance is the authentic one and was not tampered with or modified by a third-party attacker.

To enable Application Authenticity protection you can either follow the on-screen instructions in the MobileFirst Operations Console → [your-application] → Authenticity, or review the information below.

Availability

Application Authenticity is available in all supported platforms (iOS, Android, Windows 8 Universal, Windows 10 UWP) in both Cordova and Native applications.

Note: Application Authenticity is **not available** in the MobileFirst Development Server. To test, use a remote application server such as a QA, UAT or Production server.

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Authenticity Flow

Application Authenticity is based on certificate keys that are used to sign the application bundles. Only the developer or the enterprise who have the original private key that was used to create the application are able to modify, repack, and re-sign the bundle.

Once an application has successfully registered with the MobileFirst Server, and passed the Authenticity challenge, an Authenticity token is granted. For as long as the token is valid, the Authenticity challenge will not occur again. See [Configuring authenticity \(configuring-authenticity\)](#) to learn how this can be customized.



The challenge token in the diagram is processed by compiled native code, so that third-party attackers cannot see the logic of this processing.

Enabling Application Authenticity

In order to enable Application Authenticity in your Cordova or Native application, the application's binary file needs to be signed using the MobileFirst-supplied command line tool. Eligible binary files are: `ipa` for iOS, `apk` for Android and `appx` for Windows 8 Universal & Windows 10 UWP.

1. Open a **Command-line** window and run the command: `java -jar path-to-mfp-server-authenticity-tool.jar path-to-binary-file`

For example:

```
java -jar /Users/idanadar/Desktop/mfp-server-authenticity-tool.jar /Users/idanadar/Desktop/MyBankApp.ipa
```

The result of the command above is a `.authenticity_data` file generated next to the `MyBankApp.ipa` file, called `MyBankApp.authenticity_data`.

2. Open the MobileFirst Operations Console in your browser of choice.
3. Select your application from the left-side pane and click on the Authenticity menu item.
4. Click on "Upload Authenticity File" to upload the `.authenticity_data` file.

Once the `.authenticity_data` file is uploaded, Application Authenticity is now enabled.

MobileFirst Operations Console

Home > mfp > com.worklight.MyBankApp > iOS 1.0

com.worklight.MyBankApp iOS v 1.0

Management **Authenticity** Security Configuration Files

Application Authenticity

Activating Application Authenticity protection ensures that the only the authentic application binary is able to communicate with the MobileFirst Server.

For security reasons, it is recommended that you enable Application Authenticity. Upload file to enable.

Status: **Disabled** Upload Authenticity File

Follow these steps to set up Application Authenticity

- 1 Download the Application Authenticity tool
- 2 Create the Authenticity File
- 3 Upload the Authenticity File

Disabling Application Authenticity

In order to disable Application Authenticity, click the "Delete Authenticity File" button.

MobileFirst Operations Console

Home > mfp > com.worklight.MyBankApp > iOS 1.0

com.worklight.MyBankApp iOS v 1.0

Management **Authenticity** Security Configuration Files

Application Authenticity

Activating Application Authenticity protection ensures that the only the authentic application binary is able to communicate with the MobileFirst Server.

Successfully uploaded the Authenticity File.

Status: **Enabled** Delete Authenticity File

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Configuring Application Authenticity

The Application Authenticity out-of-the-box security check can be configured with the following property:

- `expirationSec`: Defaults to 3600 seconds / 1 hour. Defines the duration until the Authenticity token expires.

To configure the `expirationSec` property:

1. Load the MobileFirst Operations Console and navigate to **[your application] → Security → Security Check Configurations** and click on **Create New**.
2. Search for the "appAuthenticity" scope element.
3. Set a new value in seconds.

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Applications

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com.worklight.MyBankApp

Platform

[^](#) iOS

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Push

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Configure Security Check Parameters

Scope element

Expiration (seconds) *

Expiration (seconds)

Default Value: 3600

[Add](#)[Cancel](#)

out-of-the-box security checks or

[Create New](#)[Create New](#)

You didn't create security check configuration yet

Get started by clicking "Create New"