Application Authenticity

Overview

By issuing an HTTP request, an entity can access to corporate HTTP services (APIs) that IBM MobileFirst Foundation Server provides access to. The predefined application-authenticity security check (../) 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, you can either follow the on-screen instructions in the **MobileFirst Operations Console** → **[yourapplication]** → **Authenticity**, or review the information below.

Availability

 Application authenticity is available in all supported platforms (iOS, Android, Windows 8.1 Universal, Windows 10 UWP) in both Cordova and native applications.

Limitations

 Application authenticity does not support Bitcode in iOS. Therefore, before using application authenticity, disable Bitcode in the Xcode project properties.

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Application Authenticity Flow

By default, the application-authenticity security check is run during the application's runtime registration to MobileFirst Server, which occurs the first time an instance of the application attempts to connect to the server, the authenticity challenge does not occur again.

See Configuring application authenticity to learn how to customize this behavior.



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

For application authenticity to be enabled in your Cordova or native application, the application binary file must be signed by using the mfp-app-authenticity tool. Eligible binary files are: ipa for iOS, apk for Android, and appx for Windows 8.1 Universal & Windows 10 UWP.

- 1. Download the mfp-app-authenticity tool from the MobileFirst Operations Console → Download Center.
- 2. Open a **Command-line** window and run the command: java -jar path-to-mfp-app-authenticity.jar path-to-binary-file

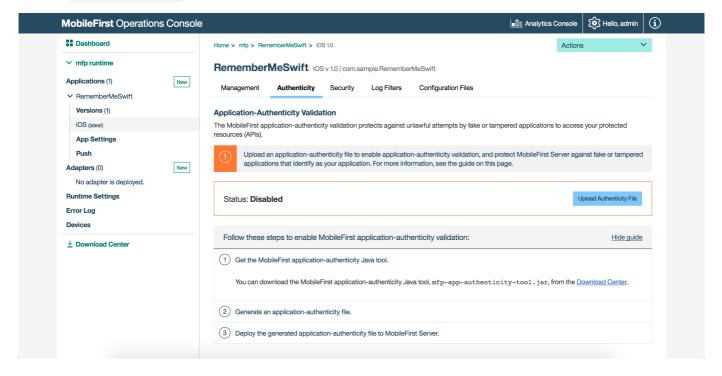
For example:

java -jar /Users/your-username/Desktop/mfp-app-authenticity.jar /Users/your-username/Desktop/MyBankApp.ipa

This command generates an .authenticity_data file, called MyBankApp.authenticity_data, next to the MyBankApp.ipa file.

- 3. Open the MobileFirst Operations Console in your favorite browser.
- 4. Select your application from the navigation sidebar and click on the Authenticity menu item.
- 5. Click on **Upload Authenticity File** to upload the .authenticity_data file.

When the .authenticity_data file is uploaded, application authenticity is enabled.



Disabling Application Authenticity

To disable application authenticity, click the **Delete Authenticity File** button.

Configuring Application Authenticity

By default, Application Authenticity is checked only during client registration. Just like any other security check, you can decide to protect your application or resources with the appAuthenticity security check from the console, following the instructions under Protecting resources (../#protecting-resources).

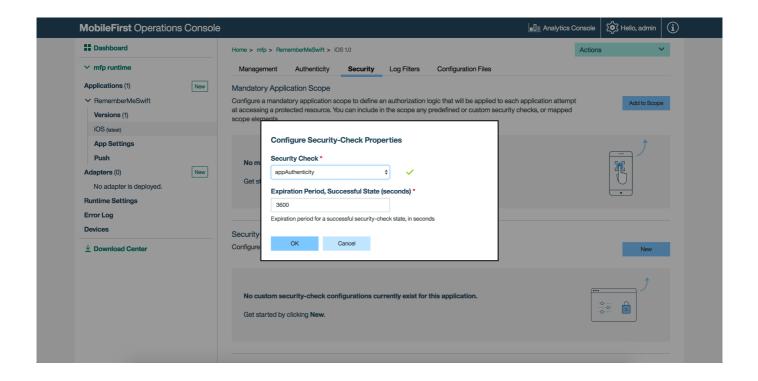
You can configure the predefined application-authenticity security check with the following property:

• expirationSec: Defaults to 3600 seconds / 1 hour. Defines the duration until the authenticity token expires.

After an authenticity check has completed, it does not occur again until the token has expired based on the set value.

To configure the expirationSec property:

- Load the MobileFirst Operations Console, 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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