

Using the MobileFirst Platform Operations Console

fork and edit tutorial (<https://github.ibm.com/MFPSamples/DevCenter/tree/master/tutorials/en/foundation/8.0/setting-up-your-development-environment/console/index.md>) | report issue (<https://github.ibm.com/MFPSamples/DevCenter/issues/new>)

Overview

The MobileFirst Platform Operations Console is a web-based UI which enables simplified work flows for both the developer and the administrator to create, monitor, secure and administer applications & adapters.

Jump to:

- Accessing the console
- Navigating the console

Accessing the console

The MobileFirst Operations Console can be accessed in the following ways:

From a locally installed MobileFirst Server

Desktop Browser

From your browser of choice, load the URL `http://localhost:9080/mfpconsole` (`http://localhost:9080/mfpconsole`). The username/password are *admin/admin*.

Command-line

From a **Command-line** window, with the MobileFirst CLI installed, run the command: `mfpdev server console`.

From a remotely installed MobileFirst Server

Desktop Browser

From your browser of choice, load the URL `http://the-server-host:server-port-number/mfpconsole`

The host server can be a customer-owner server, or running on a service such as Bluemix. The username/password are *admin/admin*.

Command-line

From a **Command-line** window, with the MobileFirst CLI installed,

1. Add a remote server definition:

Interactive Mode

Run the command: `mfpdev server add` and follow the on-screen instructions.

Direct Mode

Run the command with the following structure: `mfpdev server add [server-name] --URL [remote-server-URL] --login [admin-username] --password [admin-password] --contextroot [admin-service-name]`. For example:

```
mfpdev server add MyRemoteServer http://my-remote-host:9080/ --login TheAdmin --password ThePassword --contextroot mfpadmin
```

2. Run the command: `mfpdev server console MyRemoteServer`.

Learn more about the various CLI commands in the [Using CLI to manage MobileFirst artifacts](#) ([../using-the-mfpf-sdk/using-cli-to-manage-mobilefirst-artifacts/](#)) tutorial.

Navigating the console

Dashboard

The Dashboard provides a glance view of the deployed projects.

The screenshot shows the MobileFirst Operations Console Dashboard. The left sidebar contains navigation links: Dashboard, Runtimes, Applications, Adapters, Settings, Devices, and Error Log. The main content area has a 'Welcome!' message stating that no apps or adapters are currently deployed, with links to 'Register an App', 'Get CLI', and 'Get Starter Code'. Below this is a 'Monitoring' section showing the status of three services: Administration DB, Configuration Service, and Push Service, all of which are 'Active'.

Runtime settings

Edit runtime properties such as Analytics server URL, global security variables, server keystore and confidential clients.

The screenshot shows the MobileFirst Operations Console Settings page. The left sidebar is the same as the dashboard. The main content area is titled 'Settings' and has tabs for 'Runtime Properties', 'Keystore', and 'Confidential Clients'. The 'Runtime Properties' tab is active, showing a list of properties. The 'analyticsEnabled' property is set to 'true', and the 'expirationMarginSec' property is set to '2'. There is an 'Edit' button in the top right corner of the settings area.

Applications

Creating applications

Provide basic application values and download Starter Code.

The screenshot shows the 'MobileFirst Operations Console' interface. The left sidebar contains a navigation menu with 'Dashboard', 'Runtimes', 'Applications', 'Adapters', 'Settings', 'Devices', and 'Error Log'. The 'Applications' section is selected, showing a 'New' button and the text 'No application deployed'. The main content area is titled 'Register an Application' and includes the following fields: 'Application Name' (text input), 'Optional display name of the Application' (text input), 'Choose Platform' (radio buttons for Android, iOS, and Windows, with iOS selected), 'Bundle ID' (text input, labeled 'Application Identifier; case sensitive'), and 'Version' (text input, labeled 'Application Version'). A 'Register application' button is at the bottom.

Managing applications

Manage and configure registered applications by use of Direct Update ([../using-the-mfpf-sdk/direct-update/](#)), Remote Disable, Application Authenticity ([../authentication-and-security/application-authenticity/](#)), and setting security parameters ([../authentication-and-security/authentication-concepts/](#)).

The screenshot shows the 'MobileFirst Operations Console' interface for managing a specific application. The left sidebar shows the navigation menu with 'MyApp' selected under 'Applications'. The main content area is titled 'MyApp' and shows 'iOS v 1.0 | com.sample.myapp'. The 'Management' tab is active, showing 'Last modified: Feb 15, 2016, 10:40 PM'. Below this, the 'Application Access' section shows 'Status: *' with radio buttons for 'Active' (selected), 'Active and Notifying', and 'Access Disabled'. The 'Direct Update' section shows 'No Web resources deployed' and an 'Upload Web Resources File' button.

Authentication and Security

Configure application security parameters.

The screenshot shows the MobileFirst Operations Console interface. The top navigation bar includes 'Analytics Console', 'Hello, admin', and an information icon. The left sidebar shows a breadcrumb trail: 'Home > mfp > MyApp > iOS 1.0'. The main content area is titled 'MyApp iOS v 1.0 | com.sample.myapplication' and has tabs for 'Management', 'Authenticity', 'Security' (selected), 'Log Filters', and 'Configuration Files'. The 'Security' section is titled 'Security' and contains the text: 'This is where you will set up the advanced security framework configuration offered by MobileFirst Platform to protect your enterprise data and APIs.' Below this, there is a 'Token Configurations' section with the text: 'Configure the access tokens provided by the MobileFirst Server'. A form field for 'Maximum token expiration (seconds) *' is set to '3600' with an 'Edit' button. Below this, there is a section for 'Map scope elements to security checks' with the text: 'Configure one or more authentications required for the client to get proper permissions for accessing a protected resource.' and a 'Create New' button. At the bottom, there is a message: 'You have not mapped any scope elements to security checks.' with a 'Get started by clicking "Create New"' link and an illustration of a smartphone.

Notifications

Set-up push notifications ([../../notifications/push-notifications-overview/](#)) and related parameters, such as tags, as well as sending notifications.

The screenshot shows the MobileFirst Operations Console interface. The top navigation bar includes 'Analytics Console', 'Hello, admin', and an information icon. The left sidebar shows a breadcrumb trail: 'Home > mfp > com.sample.myapplication > Push'. The main content area is titled 'Push' and has tabs for 'Send Push', 'Tags', and 'Push Settings' (selected). The 'Push Settings' section is titled 'Push Notification Settings' and contains the text: 'Configure your push notifications here. For detailed instructions, take a look at our [Push Notifications Guide](#).' Below this, there is a section for 'Apple Push Notifications Certificate' with the text: 'Learn more about how to generate and use Apple Push Notification service (APNs) certificates in [Apple Push Notifications certificates guide](#)'. A 'Choose use *' section has two radio buttons: 'Production' (selected) and 'Sandbox'. Below this, there is a 'Select PKCS 12 (.p12) File *' section with a 'No file selected' button and a 'Browse' button. A 'Password *' section has a text input field labeled 'Enter Password' and a 'Save' button.

Adapters

Creating adapters

Register an adapter and download Starter Code, as well as update an adapter on-the-fly by updating its properties without needing to re-build and re-deploy the adapter artifact.

The screenshot shows the 'Create a new Adapter' page in the MobileFirst Operations Console. The left sidebar contains a navigation menu with 'Dashboard', 'Runtimes', 'mfp', 'Applications', 'Adapters', 'Settings', 'Devices', and 'Error Log'. The main content area is titled 'Create a new Adapter' and includes a 'Deploy Adapter' button. Below the title, there is a section 'Follow these steps to create an adapter' with a 'Hide guide' link. The first step is 'Set up your development environment', which includes instructions on installing Node.js, the CLI, and Maven. A code block shows the command `npm install -g mfpdev-cli`.

MobileFirst Operations Console

Home > mfp > Create a new Adapter

Create a new Adapter

Adapters are used to securely connect back-end systems to client applications and cloud services. Adapters are built as Maven projects and can be written in JavaScript or Java.

Follow these steps to create an adapter [Hide guide](#)

- 1 Set up your development environment

Development of adapters can be done in any environment that supports Maven. In order to build, deploy and update adapters, you can use Maven or the MobileFirst Platform Foundation command line tool.

Installing the command line interface (CLI)

If you haven't, download and install Node.js. Install the CLI using npm utility of Node.js. The MFP CLI will automatically be downloaded by the npm utility.

```
npm install -g mfpdev-cli
```

Installing Maven

Follow the instructions on the [Apache Maven website](#) to download and install Maven.

Adapter properties

After an adapter is deployed, it can be configured in the console.

The screenshot shows the 'javaAdapter' configuration page in the MobileFirst Operations Console. The left sidebar contains a navigation menu with 'Dashboard', 'Runtimes', 'mfp', 'Settings', 'Applications', 'Adapters', 'Devices', 'Client Logs', and 'Error Log'. The main content area is titled 'javaAdapter' and includes a 'Delete' button. Below the title, there is a section 'Resources' with a table of API endpoints.

MobileFirst Operations Console

Home > mfp > javaAdapter

javaAdapter

Configurations **Resources** Configuration Files

Resources

URL	Methods	Security
/users	GET	
/users/hello/UserQuery	GET	
/users/newUsers	PUT	
/users/{first}/{middle}/{last}	POST	
/users/{username}	GET	

Devices

Administrators can search for devices that access the MobileFirst Server and can manage access rights. Devices can be searched for using either user ID or using a friendly name. The user ID is the identifier that was used to log-in.

A friendly name is a name that is associated with the device to distinguish it from other devices that share the user ID.

For more information, see the topic about device access management in the MobileFirst Operations Console in the user documentation.

Client logs

Administrators can use log profiles to adjust client logger configurations, such as log level and log package filters, for any combination of operating system, operating system version, application, application version, and device model.

When an administrator creates a configuration profile, the log configuration is concatenated with responses API calls such as `WLResourceRequest`, and is applied automatically.

For more information, see the topic about client-side log capture configuration from MobileFirst Operations Console in the user documentation.

Error log

The Error log shows a list of the failed management operations that were initiated from the MobileFirst Operations Console, or from the command line, on the current runtime environment. Use the log to see the effect of the failure on the servers.

For more information, see the topic about error log of operations on runtime environments in the user documentation.



License tracking

Accessible from the top Settings buttons.

License terms vary depending on which edition (Enterprise or Consumer) of MobileFirst Platform Foundation is being used. License tracking is enabled by default and tracks metrics relevant to the licensing policy, such as active client devices and installed applications. This information helps determine whether the current usage of MobileFirst Platform is within the license entitlement levels and can prevent potential license violations.

By tracking the usage of client devices and determining whether the devices are active, administrators can decommission devices that should no longer be accessing the service. This situation might arise if an employee has left the company, for example.

For more information, see the topic about license tracking in the user documentation.



Downloads

For situations where Internet connectivity is not available, you can download a snapshot of the various development artifacts of MobileFirst Platform Foundation from the Downloads page.

Dashboard

Runtimes

mfp

Applications

No application deployed

New

Adapters

No adapter deployed

New

Settings

Devices

Error Log

Home > Downloads

Actions

Downloads

Applications

Adapters

Tools

MobileFirst Platform Development CLI

Download this thing and then run `npm install -g mfpdev-cli.tgz`

Download

Adapter Tooling

Everything you need to develop adapters using Maven.

Download

MobileFirst Extension for OAuth Security

You can protect your resources that are running on WebSphere® Application Server or WebSphere Application Server Liberty servers with OAuth-based IBM MobileFirst™ Platform Foundation security.

Download

MobileFirst SDKs for Mobile Application Development

Select the SDK for the mobile application platform for which you are developing