

# 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.

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- 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 'Register an Application' page in the MobileFirst Operations Console. The left sidebar contains a navigation menu with 'Dashboard', 'Runtimes', 'Applications', 'Adapters', 'Settings', 'Devices', and 'Error Log'. The main content area has a breadcrumb 'Home > mfp > Register an Application' and a 'Register an Application' heading. Below the heading are form fields for 'Application Name' (with a subtext 'Optional display name of the Application'), 'Choose Platform' (with radio buttons for Android, iOS, and Windows, where iOS is selected), 'Bundle ID' (with a subtext 'Application Identifier; case sensitive'), and 'Version' (with a subtext '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 'MyApp' management page in the MobileFirst Operations Console. The left sidebar shows a navigation menu with 'Back', 'mfp', 'Applications', 'MyApp', 'Platform', 'iOS', '1.0', 'Push', and 'Settings'. The main content area has a breadcrumb 'Home > mfp > MyApp > iOS 1.0' and a 'MyApp' heading with subtext 'iOS v 1.0 | com.sample.myapp'. Below the heading are tabs for 'Management', 'Authenticity', 'Security', 'Log Filters', and 'Configuration Files'. The 'Management' tab is active, showing 'Last modified: Feb 15, 2016, 10:40 PM'. Below this is the 'Application Access' section with a 'Status' field and radio buttons for 'Active' (selected), 'Active and Notifying', and 'Access Disabled'. The 'Direct Update' section has a subtext 'Deliver an update to a Cordova cross-platform application by uploading a new web resources (HTML, JavaScript, and CSS) archive.' and a button 'Upload Web Resources File'.

## Authentication and Security

Configure application security parameters.

The screenshot shows the MobileFirst Operations Console interface. The top navigation bar includes the title 'MobileFirst Operations Console', an 'Analytics Console' link, a user profile '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' and shows the 'Security' tab selected. It includes a 'Maximum token expiration (seconds)' field set to 3600 and a 'Map scope elements to security checks' section with a 'Create New' button. A message at the bottom states: 'You have not mapped any scope elements to security checks. Get started by clicking "Create New"'. An illustration of a smartphone with a lock icon is also present.

## 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 for the 'Push' settings of 'MyApp'. The top navigation bar is the same as the previous screenshot. The left sidebar shows the breadcrumb trail: Home > mfp > com.sample.myapp > Push. The main content area is titled 'Push' and shows the 'Push Settings' tab selected. It includes a 'Choose use' section with 'Production' selected and 'Sandbox' as an option. There is a 'Select PKCS 12 (.p12) File' section with a 'Browse' button. A 'Password' field is also present with a 'Save' button. A message at the bottom states: 'Configure your push notifications here. For detailed instructions, take a look at our [Push Notifications Guide](#)'.

## 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' (with a 'New' button), 'Adapters' (with a 'New' button), 'Settings', 'Devices', and 'Error Log'. The main content area has a breadcrumb 'Home > mfp > Create a new Adapter' and an 'Actions' dropdown with a 'Deploy Adapter' button. The title is 'Create a new Adapter'. Below the title, a paragraph explains that adapters are used to securely connect back-end systems to client applications and cloud services. A section titled 'Follow these steps to create an adapter' includes a 'Hide guide' link and a numbered list starting with '1 Set up your development environment'. This section contains text about development environments supporting Maven, instructions for installing the command line interface (CLI) using Node.js and npm, and a code block for the command `npm install -g mfpdev-cli`. It also includes a section for 'Installing Maven' with a link to the Apache Maven website.

## 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 is similar to the previous screenshot, but the 'Adapters' section is expanded, showing 'javaAdapter' with a 'Create new' button. The main content area has a breadcrumb 'Home > mfp > javaAdapter' and a 'Delete' button. The title is 'javaAdapter'. Below the title, there are tabs for 'Configurations', 'Resources' (which is selected), and 'Configuration Files'. The 'Resources' tab displays a table with the following data:

URL	Methods	Security
/users	GET	
/users/helloUserQuery	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.



**MobileFirst Operations Console**

Home > mfp > Devices

**Devices**

Search device by user identifier or display name (3 chars at least).

Device ID	Display Name	User ID	Model & OS Version	Device Status	Actions
7D518329-2B1A-4E2E-B04F-7BF9EA5B972B			iPhone iOS 9.2	Active	

**Installed Applications**

Application Name	Application Status
com.sample.PinCodeSwift	Enabled

## 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.



**MobileFirst Operations Console**

Home > mfp > MyApp > iOS 1.0

**MyApp** iOS v 1.0 | come.sample.myapp

Management Authenticity Security **Log Filters** Configuration Files

**Log Filters**

Use Log Filters to collect application logs from devices according to a profile. The profile is defined here, and the actual logs can be viewed on the Analytics Console

Create Log Filter

You have not set up any Log Filters yet

You can use log filters to control the level of logs collected on an application user's device. In this way, you ensure that logs are collected according to the level of information required at a given time.

## 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