

Using the MobileFirst Operations Console

Overview

The MobileFirst Foundation 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 either a customer-owned server, or the IBM Bluemix service, IBM Mobile Foundation (`../ibm-containers/`).

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 \(../using-the-mfpf-sdk/using-mobilefirst-cli-to-manage-mobilefirst-artifacts/\)](#) tutorial.

Navigating the console

Dashboard

The Dashboard provides a glance view of the deployed projects.

MobileFirst Operations Console | Analytics Console | Hello, admin | i

Dashboard

Home > Dashboard

Welcome!

You do not have any apps registered or adapters deployed. To get started, click these buttons to register an application, access the command-line interface, or download code samples. To learn more, visit the [Developer Center](#).

Monitoring

Administration DB | **Live Update** | **Push Service**

Active | Active | Active

Runtime Status

Monitor the runtimes on this server. Synchronization errors might indicate a problem between the administration server and the runtime. See the logs for details.

Runtime Name	State	Synchronization	Analytics
mfp	Active	Synchronized	Active

Actions dropdown

The dropdown provides quick access to various console actions.

MobileFirst Operations Console | Analytics Console | Hello, admin | i

Dashboard

Home > Dashboard

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Actions

- Applications**
 - Register Application
 - Import Application
- Adapters**
 - Deploy Adapter
 - Import Adapter
- General**
 - Download Samples
 - Download Developer CLI

Runtime Name	State	Synchronization	Analytics
mfp	Active	Synchronized	Active

Runtime settings

Edit runtime properties, global security variables, server keystore and confidential clients.

MobileFirst Operations Console

Home > mfp > Runtime Settings

Runtime Settings

Runtime Properties | Keystore | Confidential Clients

Runtime Properties [Edit]

Adapters

GZIP compression threshold for adapter responses *

20480

Compression threshold, in bytes, from which the server tries to compress the MobileFirst adapter response if the client accepts gzip.

Analytics

Additional packages

A comma-separated list of packages that the logger uses to generate the output sent to the MobileFirst Analytics server.

Data collection enabled

true

Enables or disables collecting data about applications, adapters, devices, and logs to be sent to the analytics service.

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.

MobileFirst Operations Console

Home > mfp > Error Log

Error Log

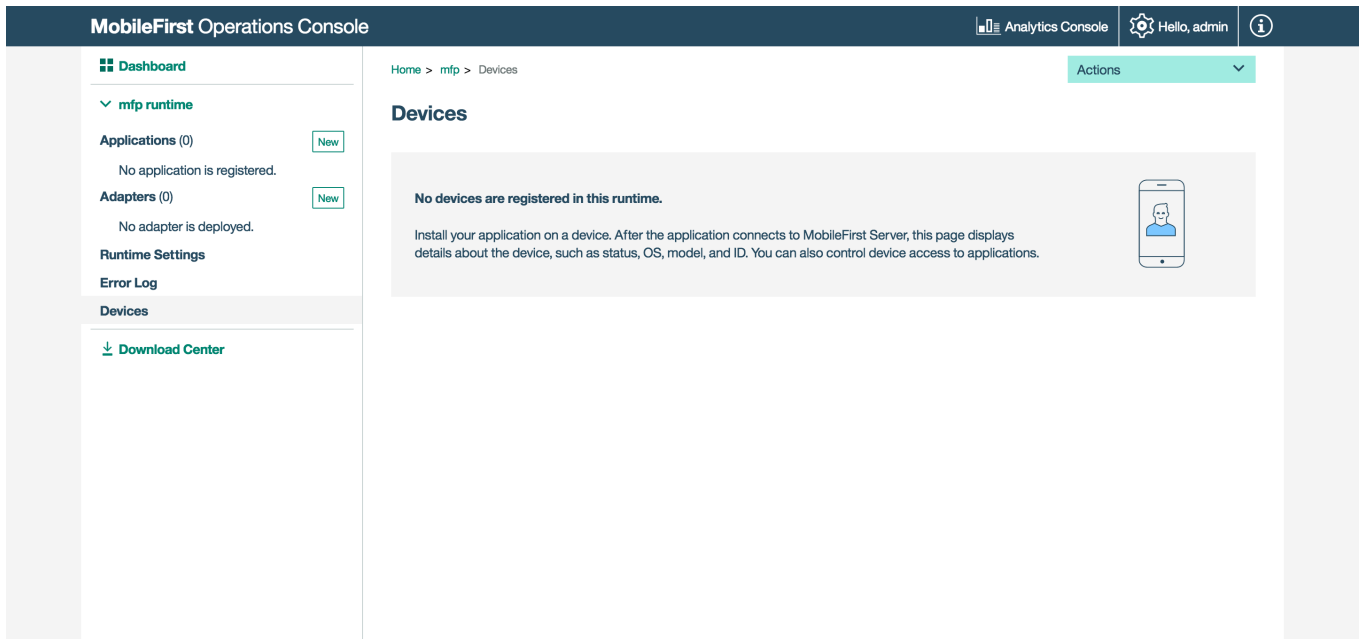
Date	Type	Name	Details	Value
May 23, 2016, 11:29 AM	Upload Adapter	sqlAdapter		sqlAdapter.adapter
Error Details				
Node	Type	Description		
mfp://9.148.225.168	FAILURE	FWLST0905E: Adapter deployment failed. SQL driver com.mysql.jdbc.Driver was not found in the adapter resources. FWLSE4042I: Security check 'PinCodeAttempts' configuration for param 'inactivityTimeoutSec': 'Missing configuration property, using default value 0'.		
May 23, 2016, 11:25 AM	Upload Adapter	sqlAdapter		sqlAdapter.adapter
May 15, 2016, 10:12 PM	Multiple Artifacts Upload			
May 15, 2016, 4:34 PM	Multiple Artifacts Upload			
May 15, 2016, 1:01 PM	Multiple Artifacts Upload			
May 10, 2016, 6:39 PM	Delete Adapter	UserLogin		

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.

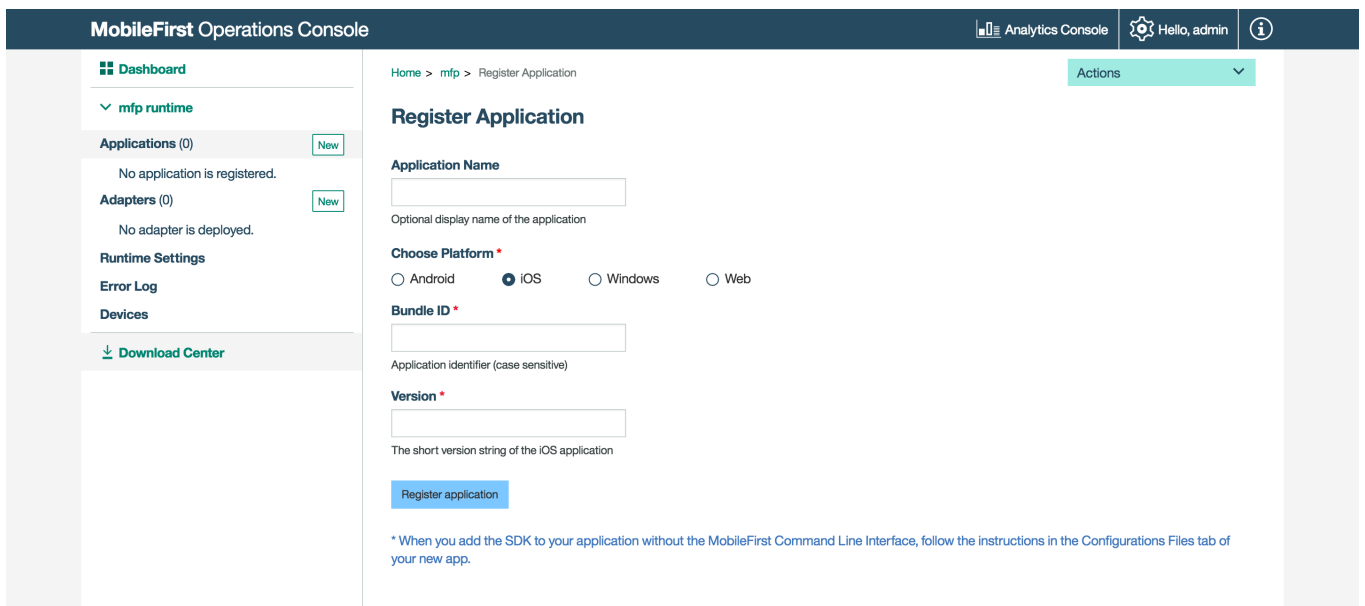
For more information, see the topic about device access management in the user documentation.



Applications

Registering applications

Provide basic application values and download Starter Code.



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/authorization-concepts/).

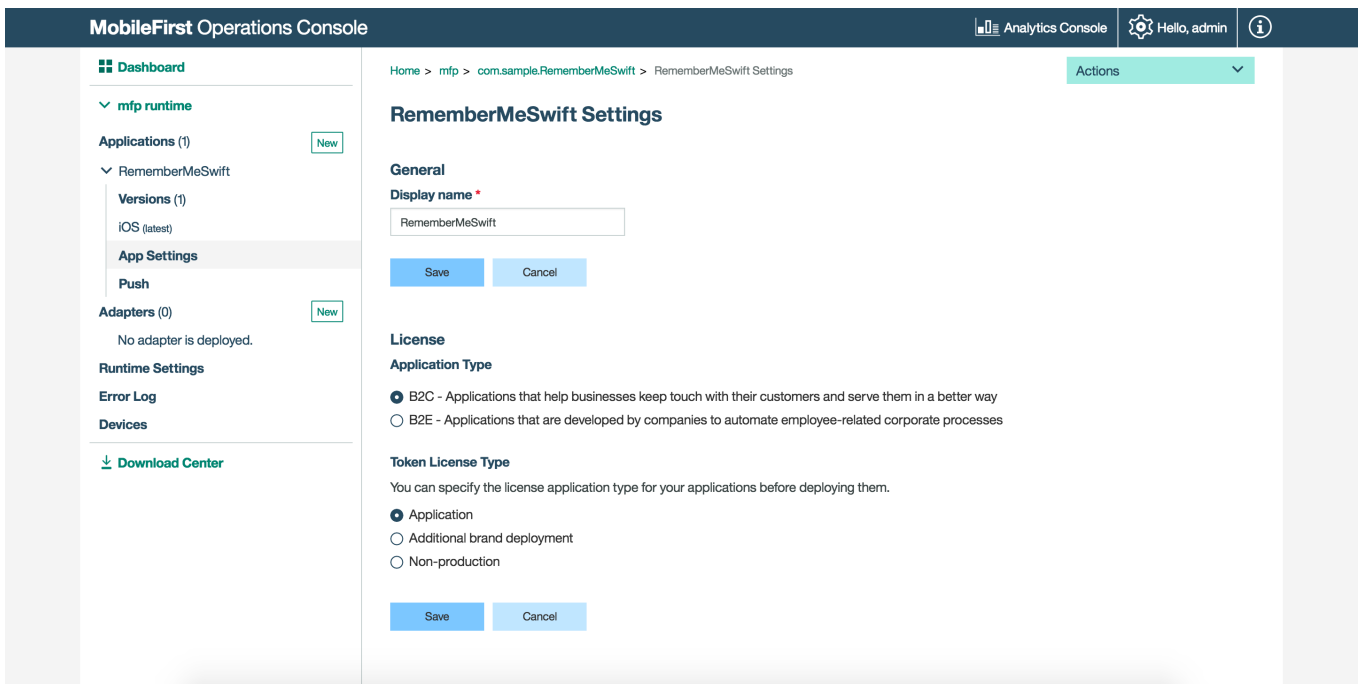
Authentication and Security

Configure application security parameters, such as the default token expiration value, map scope elements to security checks, define mandatory application scopes and configure security check options.

Learn more ([../../authentication-and-security/](#)) about the MobileFirst security framework.

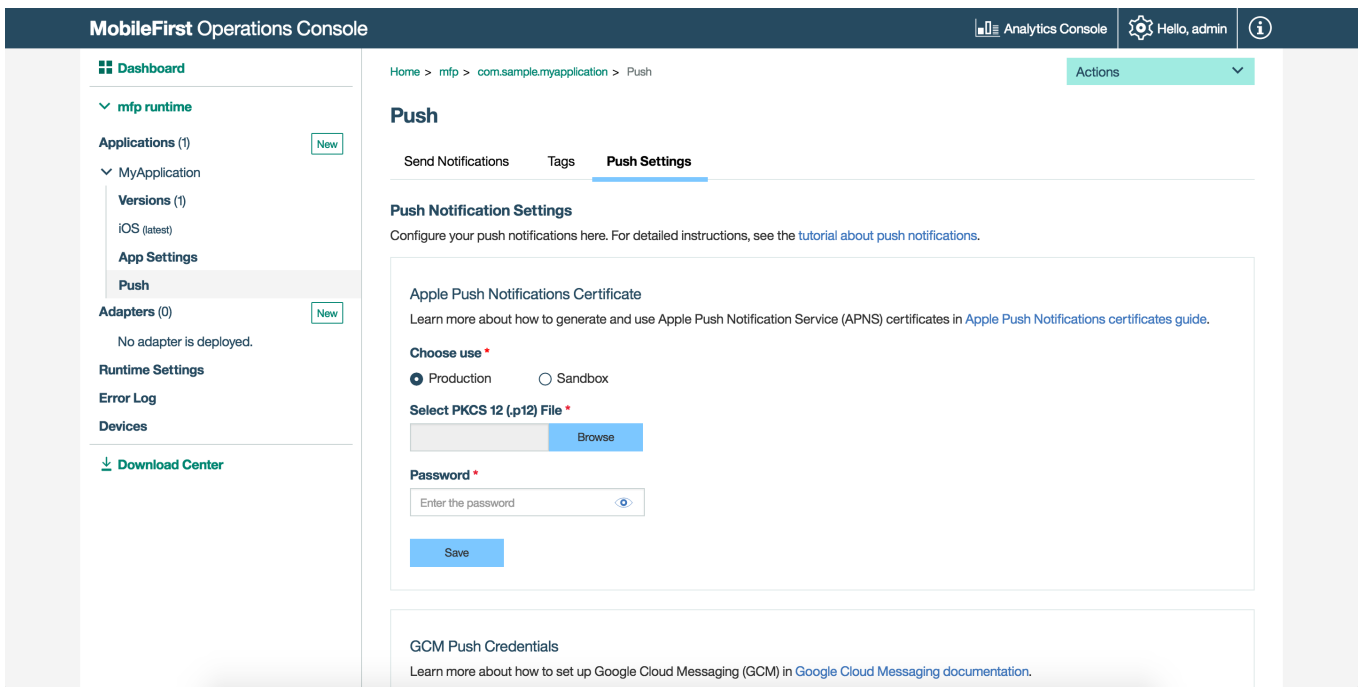
Application Settings

Configure the display name of the application in the console as well as the application type and licensing.



Notifications

Set-up push notifications ([../notifications/push-notifications-overview/](#)) and related parameters, such as certificates and GCM details, define tags, as well as send notifications to devices.



Adapters

Creating adapters

Register a MobileFirst adapter ([../adapters/](#)) 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.

MobileFirst Operations Console

Analytics Console

Hello, admin

Dashboard

mfp runtime

Applications (0)

Adapters (0)

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > Create Adapter

Create 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.

1 Set up your development environment.

You can develop adapters in any environment that supports Maven. To build, deploy, and update adapters, you can use Maven or IBM MobileFirst Platform Foundation Command Line Interface, also called the mfpdev CLI.

Installing the mfpdev CLI

Make sure to download and install Node.js, version 4.3. Install the mfpdev CLI by using the npm utility of Node.js. The CLI is automatically downloaded by the npm utility.

npm install -g mfpdev-cli

Installing Maven

To download and install Maven, follow the instructions on the [Apache Maven website](#).

2 Create

3 Develop

4 Build

Adapter properties

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

MobileFirst Operations Console

Analytics Console

Hello, admin

Dashboard

mfp runtime

Applications (0)

Adapters (1)

Runtime Settings

Error Log

Devices

Download Center

Home > mfp > javaAdapter

javaAdapter

Configurations

Resources

Configuration Files

Resources

A resource, as defined in REST, is an object with a type, associated data, relationships to other resources, and a set of methods that operate on it.

View Swagger Docs

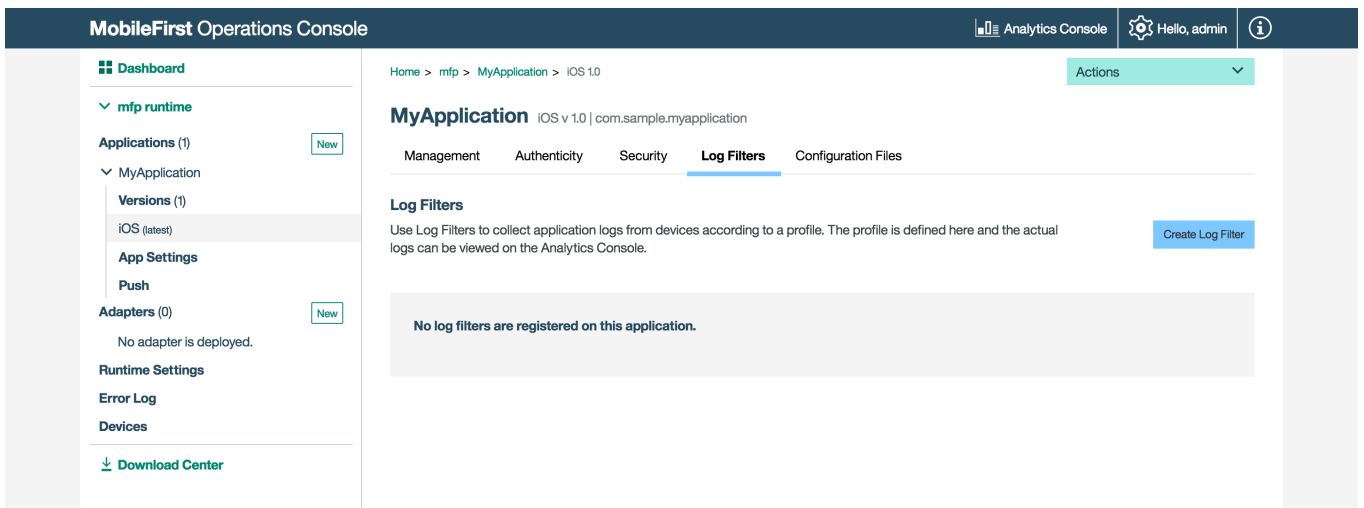
URL	Methods	Security
/resource	GET	DEFAULT_SCOPE
/resource/greet	GET	DEFAULT_SCOPE
/resource/prop	GET	DEFAULT_SCOPE
/resource/protected	GET	myCustomScope
/resource/unprotected	GET	None
/resource/{path}	POST	DEFAULT_SCOPE

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 in the user documentation.



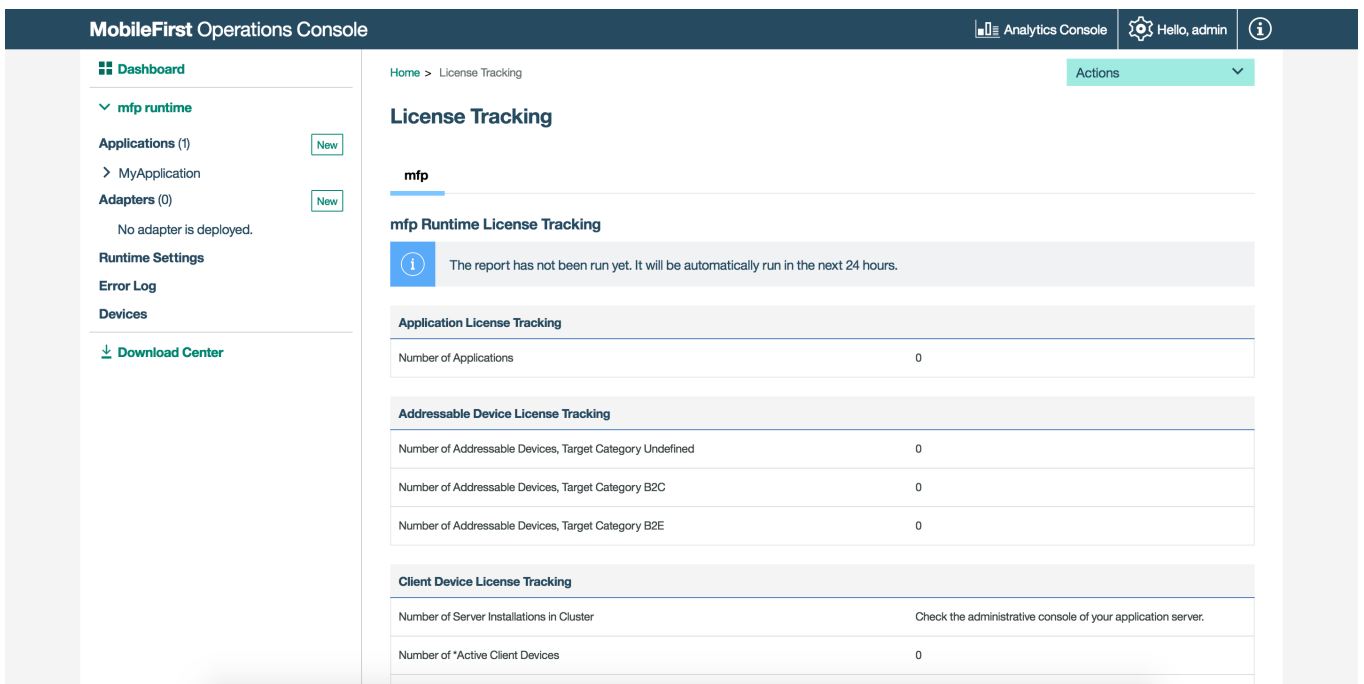
License tracking

Accessible from the top Settings buttons.

License terms vary depending on which edition (Enterprise or Consumer) of MobileFirst 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 Foundation 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 Foundation from the Download Center in the MobileFirst Console.

Dashboard

mfpruntime

Applications (0)

No application is registered.

Adapters (0)

No adapter is deployed.

Runtime Settings

Error Log

Devices

Download Center

Home > Download Center

Actions

Download Center

Tools SDKs Samples

MobileFirst CLI
Use the MobileFirst Platform Command Line Interface (CLI) to manage and develop applications.
[Learn more about MobileFirst CLI on npmjs.com](#)

- ☒ Prerequisite npm commands require [Node.js to be installed](#)
- ☒ Install latest version `npm install -g mfpdev-cli`
- ☒ Install local version `npm install -g <path-to-mfpdev-cli.tgz>`

Download

Adapter Archetypes
Use Maven artifacts to create and develop adapters.