

Setting up the MobileFirst development environment

Overview

This tutorial covers the basics of the IBM MobileFirst Platform Foundation development environment and tools.

- The MobileFirst developer tools are supported on the following operating systems: Windows, Apple OS X and Linux.
- The MobileFirst Operations Console is supported in modern browsers such as: Internet Explorer 10+, latest Chrome, Safari and Firefox.

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- Applications and Adapters Development

MobileFirst Development Server

The IBM MobileFirst Development Server is a web application archive (.war) that is deployed on an IBM WebSphere Liberty profile Application Server.

From the MobileFirst Server's Operations Console a developer can:

- Register and deploy applications and adapters
- Optionally download native/Cordova application templates
- Configure application aspects:
 - Authentication and security
 - Authenticity
 - Push Notifications
 - Direct Update
- Generate DevOps scripts for continuous integration workflows and faster development cycles
- and more

The MobileFirst Development Server is installed as a stand-alone server and provides the following scripts in its **scripts** folder:

`.sh` scripts are for Linux and Mac.

`.cmd` scripts are for Windows.

- `console. [sh | cmd]` : Open the local MobileFirst Console
- `run. [sh | cmd]` : Run the local MobileFirst Server with trailing Liberty Server messages
- `start. [sh | cmd]` : Run the local MobileFirst Server in background mode
- `stop. [sh | cmd]` : Stop the current local MobileFirst Server instance

To learn more about the MobileFirst Operations Console, see the tutorial: Using the MobileFirst Platform Operations Console ([../../quick-start/console/](#)).

To download and install the MobileFirst Development Server, visit the [downloads \(/downloads/\)](#) page.

MobileFirst Command-line Interface

The IBM MobileFirst command-line interface (CLI) tool enables developers to:

- Manage MobileFirst Servers
- Register and configure applications
- Create, build, deploy and test adapters

To download and install the MobileFirst Developer CLI, visit the downloads (/downloads/) page.

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.

MobileFirst Studio

IBM MobileFirst Studio is an Eclipse plug-in that interfaces with the MobileFirst Developer CLI and provides a User Interface for commands such as:

- Application & adapter creation and registration
- Updating of applications and adapters to or from the server
- Opening the MobileFirst Operations Console
- Use of Direct Update

To download and install MobileFirst Studio, visit the downloads (/downloads/) page.

Requirements

To use MobileFirst Studio for Cordova application development, it is also required to download and install the THyM Eclipse plug-in (https://www.eclipse.org/community/eclipse_newsletter/2014/november/article3.php).

Applications and adapters development

You can use your preferred code editor or alternative IDEs, such as Atom.io, Eclipse, IntelliJ and others, to implement applications and adapters.

To learn more about MobileFirst development, refer to the tutorials sections (../../all-tutorials/).