# Workstation Installation Guide

### **Overview**

Follow this installation guide in order to setup your workstation for development using MobileFirst Foundation.

### **DevKit Installer**

The MobileFirst Foundation Development Kit Installer (file:////home/travis/build/MFPSamples/DevCenter/\_site/tutorials/en/foundation/8.0/installation-configuration/development/mobilefirst) will install a ready-to-use MobileFirst Server, database and runtime on your developer machine.

### Prerequisite:

The installer requires Java installed.

- 1. Install Oracle's JRE (http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html).
- 2. Add a JAVA HOME variable, pointing to the JRE

Mac and Linux: Edit your ~/.bash\_profile:

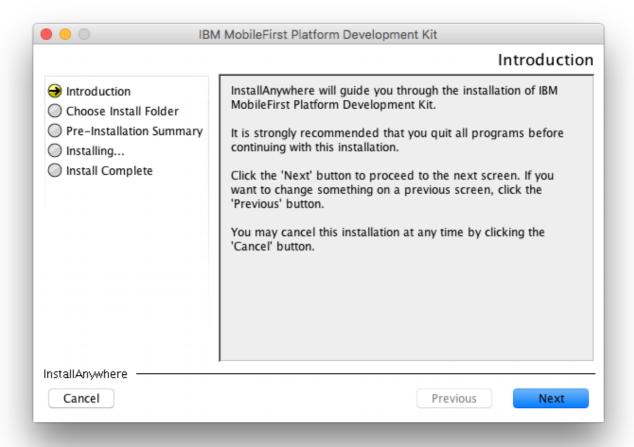
```
#### ORACLE JAVA export JAVA_HOME="/Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Home"
```

#### Windows:

Follow this guide (https://confluence.atlassian.com/doc/setting-the-java\_home-variable-in-windows-8895.html).

### Installation

Get the DevKit Installer from the Downloads page (file:///home/travis/build/MFPSamples/DevCenter/\_site/downloads/), and follow the on-screen instructions.



## Starting and stopping the server

Open a command-line window and navigate to the extracted folder location.

Mac and Linux:

- To start the server: ./run.sh -bg
- To stop the server: ./stop.sh

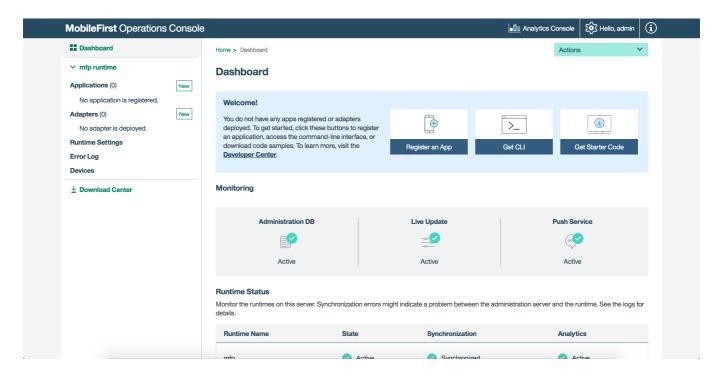
### Windows:

- To start the server: ./run.cmd -bq
- To stop the server: ./stop.cmd

## **Accessing the MobileFirst Operations Console**

You can access the MobileFirst Operations Console (file:////home/travis/build/MFPSamples/DevCenter/\_site/tutorials/en/foundation/8.0/product-overview/components/console/) in the following ways:

- From command-line, execute: mfpdev server console
- From a browser, visit: http://localhost:9080/mfpconsole (http://localhost:9080/mfpconsole)



### MobileFirst CLI

The MobileFirst CLI

(file:////home/travis/build/MFPSamples/DevCenter/\_site/tutorials/en/foundation/8.0/application-development/using-mobilefirst-cli-to-manage-mobilefirst-artifacts) is a command-line interface enabling you to register applications in the MobileFirst Server, pull/push application from/to the MobileFirst Server, create Java and JavaScript adapters, manage multiple local and remote servers, update live applications using Direct Update and so on.

### Prerequisite:

1. NodeJS is a requirement before you can install the MobileFirst CLI. Download and install NodeJS v4.4.3 LTS (https://nodejs.org/en/).

To Verify the installation, open a command-line window and execute: node -v.

1. Some CLI commands, such as creating, building and deploying adapters require Maven. See the next section for installation instructions.

### Installation

Open Terminal and execute: npm install -g mfpdev-cli.

Mac and Linux: Note that you may need to run the command using sudo.

Read more about fixing NPM permissions (https://docs.npmjs.com/getting-started/fixing-npm-permissions).

To Verify the installation, open a command-line window and execute: mfpdev -v or mfpdev help.

```
Desktop
idanadar@mbp-idan:~/Desktop$ mfpdev help
IBM MobileFirst Platform Foundation Command Line Interface (CLI)
SYNTAX
       mfpdev <command> [options]
DESCRIPTION
       The IBM MobileFirst Platform Foundation Command Line Interface (CLI) is a
      command-line for developing MobileFirst applications. The command-line can
be used by itself, or in conjunction with the IBM MobileFirst Platform
Foundation Operations Console. Some functions are available from the
      command-line only and not the console.
       You can run mfpdev commands in two modes: interactive mode and direct mode.
       In interactive mode, you enter the command without options, and you are
       prompted for responses. In direct mode, you enter the full command,
       including options, and prompts are not provided. When applicable, the
      prompts are context-sensitive to the target platform of the app, as determined by the directory from which you run the command. Use the up and down arrow keys on your keyboard to move through the selections, and press
       the Enter key when the selection you want is highlighted and preceded by
       a > character
      For more information and a step-by-step example of using the CLI, see the IBM Knowledge Center for your version of IBM MobileFirst Platform
```

# **MobileFirst Adapters and Security Checks**

MobileFirst Adapters

(file:///home/travis/build/MFPSamples/DevCenter/\_site/tutorials/en/foundation/8.0/adapters) and Security Checks (file:///home/travis/build/MFPSamples/DevCenter/\_site/tutorials/en/foundation/8.0/authentication-and-security) are your door-way to introduce authentication and other security layers to your application.

#### Prerequisite:

Apache Maven is a required to set-up before you can create adapters and security checks.

- Download the Apache Maven .zip (https://maven.apache.org/download.cgi)
- 2. Add a MVN PATH variable, pointing to the Maven folder

Mac and Linux: Edit your ~/.bash\_profile:

```
#### Apache Maven
export MVN_PATH="/usr/local/bin"
```

#### Windows:

Follow this guide (http://crunchify.com/how-to-setupinstall-maven-classpath-variable-on-windows-7/). Verify the installation by executing: mvn -v.

## **Usage**

With Apache Maven installed, you can now create adapters either via Maven command-line commands, or by using the MobileFirst CLI.

For more informationm, review the Adapters tutorials (file:///home/travis/build/MFPSamples/DevCenter/ site/tutorials/en/foundation/8.0/adapters).