# Using a MobileFirst Hybrid application as a container for server-generated pages

This tutorial covers the following topics:

- Migrating applications to IBM MobileFirst Platform Foundation
- Running your application on the Android emulator
- Running your application on the iOS emulator
- Sample application

## Migrating applications to IBM MobileFirst Platform Foundation

- By using mobile web technology, you can deploy applications to the widest variety of devices.
- The existence of public application stores, such as Apple iTunes and Google Play, changes the way
  applications are hosted and marketed. These changes make traditional methods of distribution less
  relevant.
- IBM MobileFirst Platform Foundation provides the solution to build cross-platform applications that can be distributed through the application stores by using the hybrid application programming model.
- In the hybrid model, developers typically package the application HTML, CSS, and JavaScript<sup>™</sup> code
  as part of the application that is deployed to the application store.
- This tutorial shows the remote loading of dynamic content capability, where the HTML, CSS, and JavaScript code is hosted externally from the natively packaged hybrid.

### **Creating MobileFirst applications**

CLI

From a terminal window, use the following CLI commands to add a project and application:

mfp create UsingApplicationAsAContainer cd UsingApplicationAsAContainer mfp add hybrid UsingApplicationAsAContainer

Next, add a required environment, for example Android:

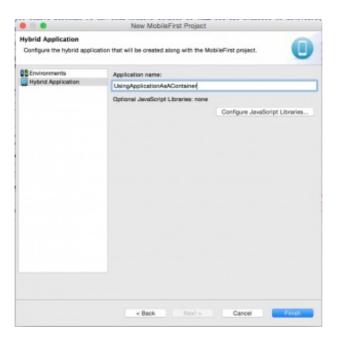
cd UsingApplicationAsAContainer mfp add environment android

#### Studio

In MobileFirst Studio, create a new project, "UsingApplicationAsAContainer"



A project might host multiple applications. However, in this tutorial, you use only one app: UsingApplicationAsAContainer



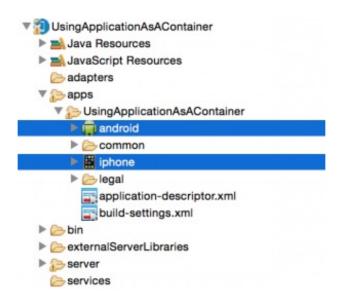
You can set the target environments either while you are working in the **MobileFirst Project** wizard, or later.



#### **IBM MobileFirst environments**

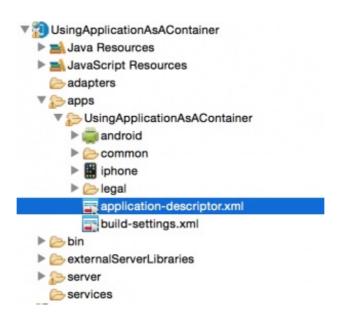
- IBM MobileFirst Foundation provides a model for organizing the application project structure for each target environment (for example, Android, iPhone, iPad).
- You select your target environment through the MobileFirst Environment wizard.





#### **IBM MobileFirst Common environment**

- The simplest way to use MobileFirst apps as containers for server-generated pages is through the Common environment.
- Open the application-descriptor.xml file and edit the mainFile tag to point to http://m.ibm.com.



```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<application xmlns="http://www.worklight.com/application-descriptor" id="UsingApplicationAsAContainer"
" platformVersion="6.3.0.00.20141003-1438">
  <displayName>UsingApplicationAsAContainer</displayName>
  <description>UsingApplicationAsAContainer</description>
  <author>
    <name>application's author</name>
    <email>application author's e-mail
    <homepage>http://mycompany.com</homepage>
    <copyright>Copyright My Company/copyright>
  </author>
  <mainFile>http://m.ibm.com</mainFile>
  <features/>
  <thumbnaillmage>common/images/thumbnail.png</thumbnaillmage>
  <iphone bundleId="com.UsingApplicationAsAContainer" version="1.0">
    <worklightSettings include="false"/>
    <security>
      <encryptWebResources enabled="false"/>
      <testWebResourcesChecksum enabled="false" ignoreFileExtensions="png, jpg, jpeg, gif, mp4,
mp3"/>
    </security>
  </iphone>
  <android version="1.0">
    <worklightSettings include="false"/>
    <security>
      <encryptWebResources enabled="false"/>
      <testWebResourcesChecksum enabled="false" ignoreFileExtensions="png, jpg, jpeg, gif, mp4,
mp3"/>
      <publicSigningKey/>
      <packageName/>
    </security>
  </android>
</application>
```

## Running your application on the Android emulator

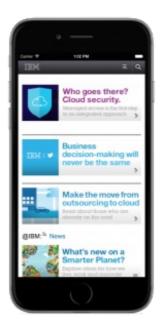
- 1. Build the Android environment.
- 2. Deploy the application.
- 3. Right-click the generated Android project and click **Run As > Android Application**.

You can see that the <a href="http://m.ibm.com">http://m.ibm.com</a> URL is displayed in your Android emulator.



# Running your application on the iOS emulator

- 1. Deploy the application to your iOS emulator.
- 2. Right-click the IOS environment and click **Run As > Xcode project**.



## Sample application

Click to download (https://github.com/MobileFirst-Platform-Developer-Center/UsingApplicationAsAContainer/tree/release71) the sample.