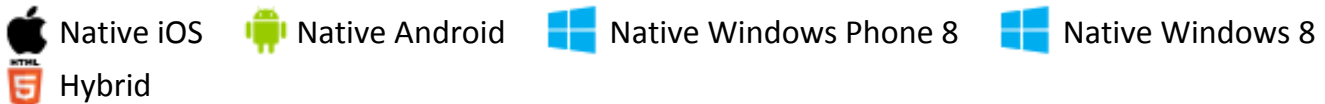


Introduction to Foundation on Bluemix

Relevant to:



What is Bluemix?

IBM Bluemix is an implementation of IBM's Open Cloud Architecture. It leverages **Cloud Foundry** to enable developers to rapidly build, deploy, and manage their cloud applications while tapping a growing ecosystem of available services and runtime frameworks.

Learn more about the Bluemix architecture and Bluemix concepts [on the Bluemix website](#).

Foundation on Bluemix

In the context of IBM MobileFirst Platform Foundation, it is possible to take an existing Foundation-based project and run it on top of Bluemix: no need to maintain IT infrastructure and other traditional hurdles any more. This feature opens up the ability to implement and use various Bluemix-provided services to complete and enhance the feature set of a given application.

How does it work?

In a nutshell: to run Foundation on Bluemix, several components must interact with one another: the first component is an **image** that contains a **Linux distribution with a WebSphere Liberty installation**, with a **MobileFirst Server instance** deployed to it. The image is then stored inside an **IBM Container**, and the IBM Container is managed by **Bluemix**.

IBM Containers

IBM Containers are objects that are used to run images in a hosted cloud environment. IBM Containers hold everything that an app needs to run.

The IBM Container infrastructure includes a private registry for your images, so that you can upload, store, and retrieve them. You can make those images available for Bluemix to manage them. A command line interface is then used to manage your containers on Bluemix – More on this in the following tutorials.

[Learn more about IBM Containers.](#)

To learn more about Foundation on Bluemix, see the “IBM MobileFirst Platform Foundation 7.1.0.0 Evaluation on IBM Containers” topics, in the user documentation.

What to follow next:

The available tutorials provide two choices:

- [Evaluate](#): Experience the ease of creating a new IBM Container in Bluemix, launch a preconfigured IBM Container (with a MobileFirst Server instance) in it, and use an application that connects to the MobileFirst Server instance.
- [Run](#): Learn how to set up a development environment for working with IBM Containers, create and update an image with changes done in your local Foundation development environment, and how to run it on Bluemix.