

# Using the Mobile Foundation service to set up MobileFirst Server

## Overview

This tutorial provides step-by-step instructions to set up a MobileFirst Server instance on Bluemix by using the **Mobile Foundation** service.

Mobile Foundation is a **Bluemix service** that enables quick and easy stand-up of scalable Developer or Production environments of MobileFirst Foundation v8.0 on **Liberty for Java runtime**.

The Mobile Foundation service offers two plan options:

1. **Developer**: This plan provisions a Mobile Foundation server as a Cloud Foundry app on a Liberty for Java runtime. The plan does not support the use of external databases or define multiple nodes *and is restricted to development and testing only*. The server instance allows you to register any number of Mobile application for development and testing.
2. **Professional 1 Application**: This plan provisions a Mobile Foundation server in a scalable Cloud Foundry app on a Liberty for Java runtime. The plan also requires a database service, which is created and billed separately. The plan allows users to build and manage a single mobile application. A single mobile application can consist of multiple flavors, such as iOS, Android, Windows, and Mobile Web.

See the service page on Bluemix.net (<https://console.ng.bluemix.net/catalog/services/mobile-foundation/>) for more information regarding billing.

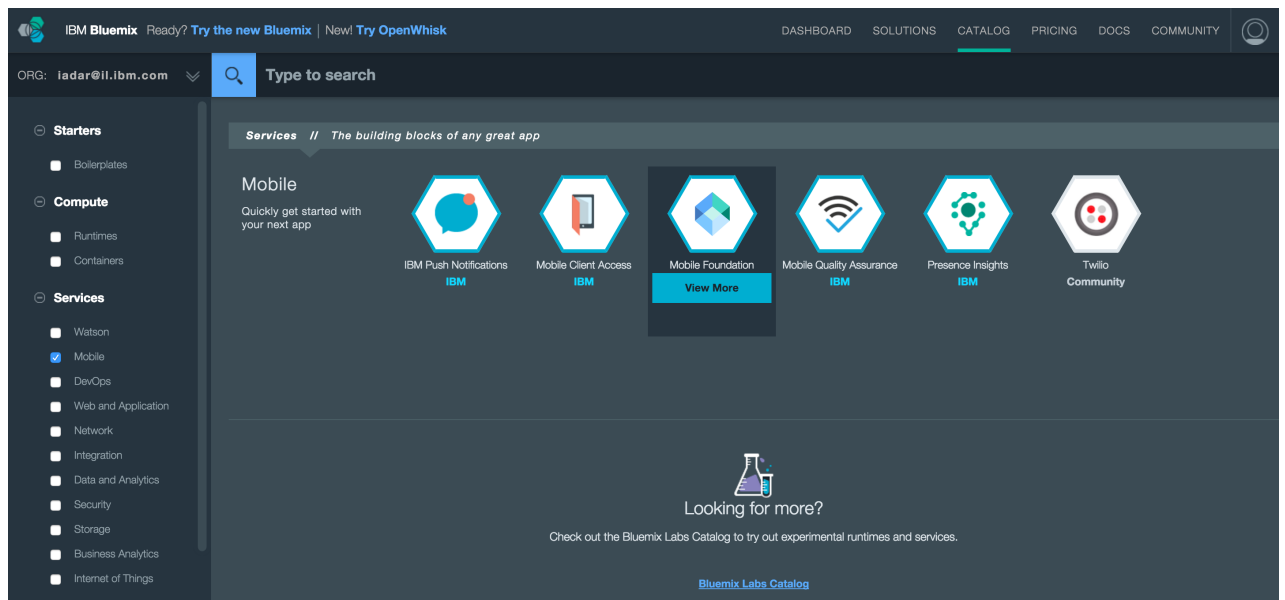
### Jump to:

- Setting up the Mobile Foundation Service
- Using the Mobile Foundation Service
- Server configuration
- Advanced server configuration
- Applying MobileFirst Server Fixes
- Further reading

## Setting up the Mobile Foundation Service

To set up the available plans, first follow these steps:

1. Load [bluemix.net](http://bluemix.net) (<http://bluemix.net>) and visit the **Catalog** page.
2. From the left sidebar, tick the **Mobile** checkbox under **Services**. Then, click on the **Mobile Foundation** tile to begin the service creation process.

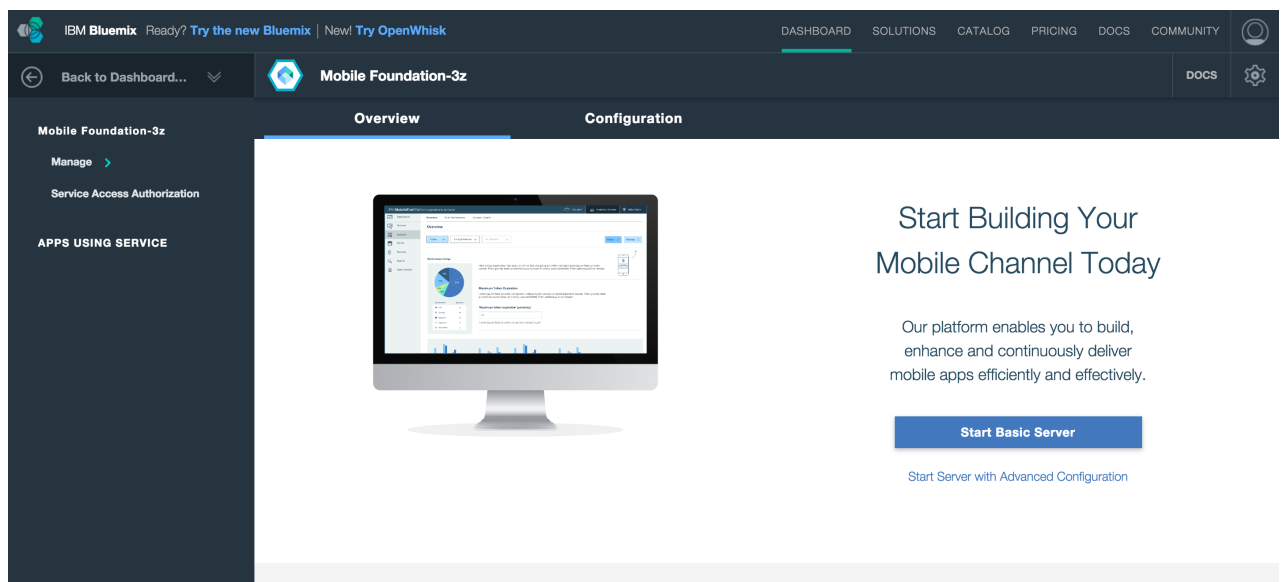


3. Select a **space** to use and optionally set a **Service name**.
4. Select the desired plan option, then click **Create**.

## Setting up the *developer* plan

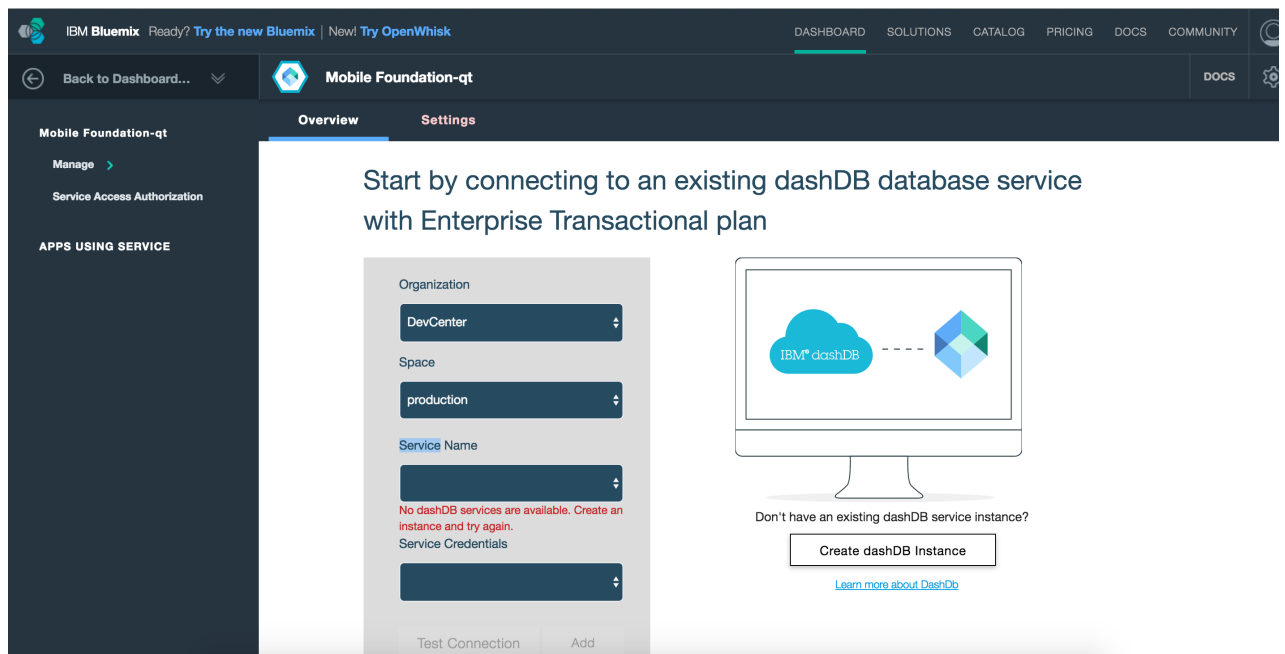
1. Start the MobileFirst Server.
  - You can either keep the server configuration at its basic level and click on **Start Basic Server**, or
  - Update the server configuration in the Configuration tab, and click on **Start advanced server**.

During this step a Cloud Foundry app is generated for the Mobile Foundation service, and the MobileFirst Foundation environment is being initialized. This takes between 5 to 10 minutes.



## Setting up the *Professional 1 Application* plan

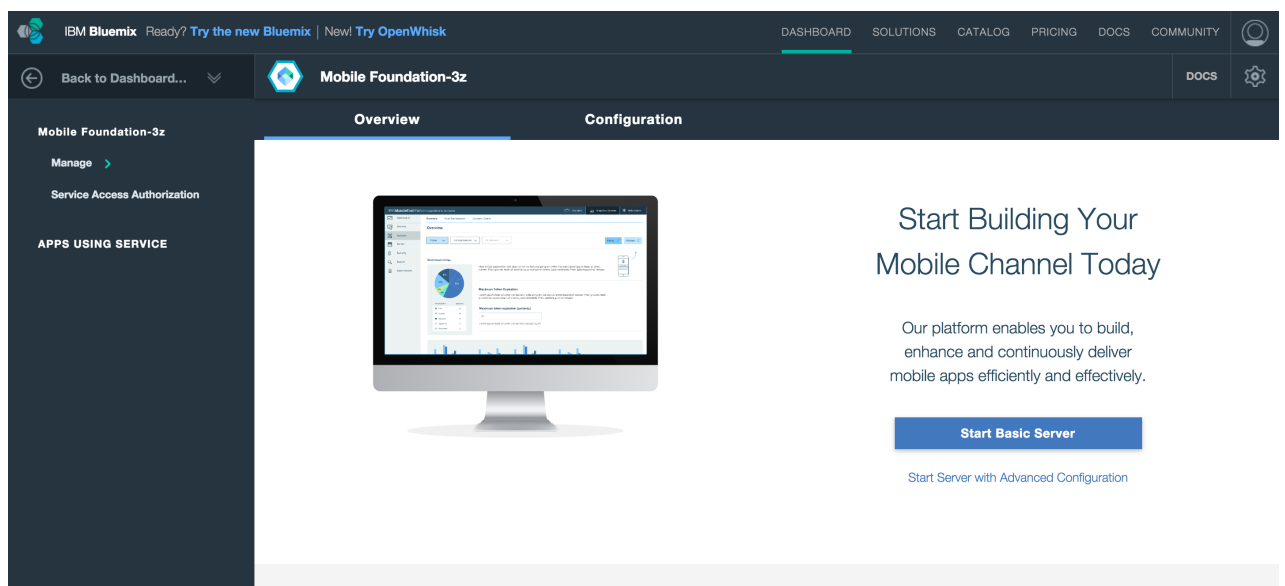
1. The plan requires an external dashDB transactional database instance (<https://console.ng.bluemix.net/catalog/services/dashdb/>). After you have set up your dashDB *Transactional plan* instance (DashDB Enterprise Transactional 2.8.500 or Enterprise Transactional 12.128.1400), select your credentials in the plan entry page:



## 2. Start the MobileFirst Server.

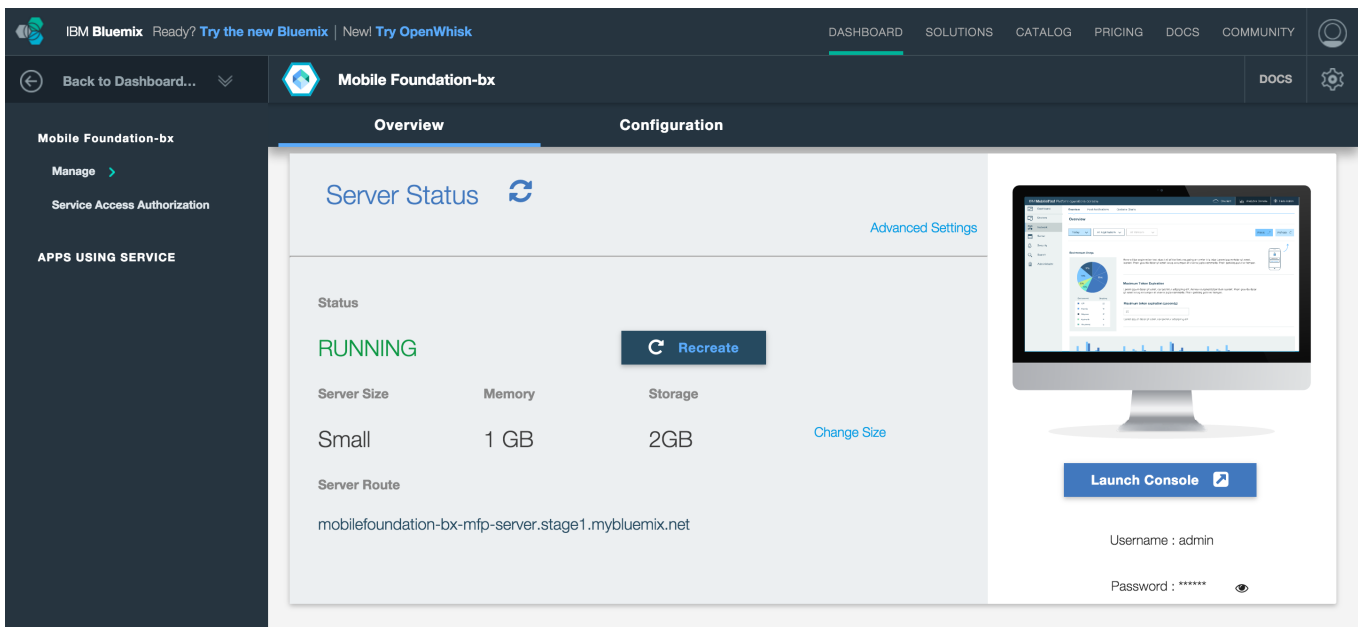
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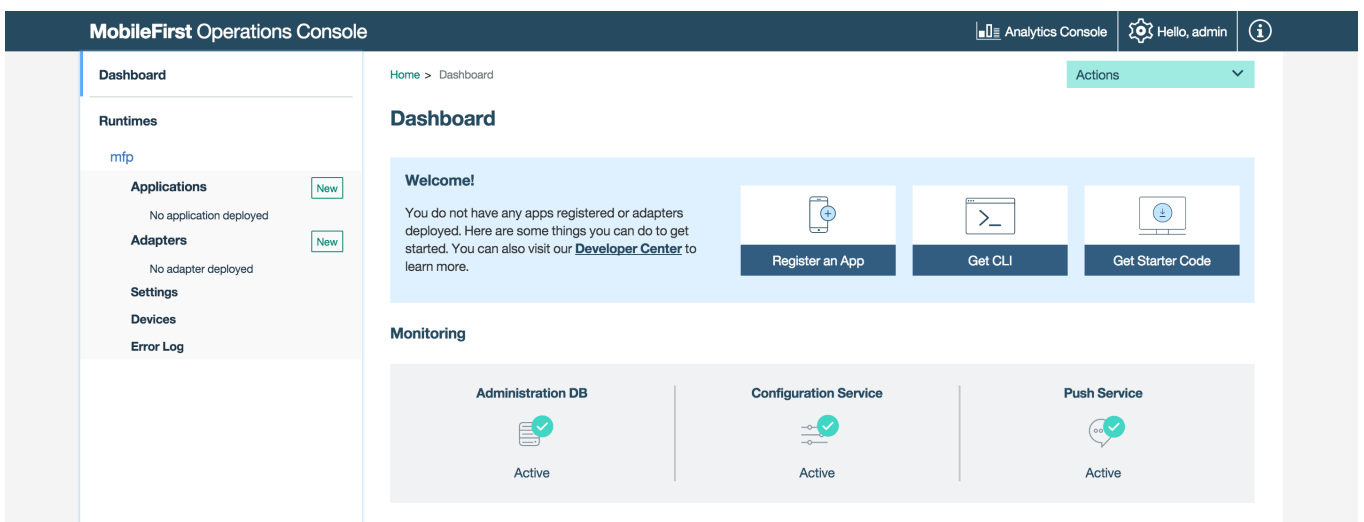


## Using the Mobile Foundation Service

With the MobileFirst Server now running, you are presented with the following Dashboard:



Click on **Launch Console** to open the MobileFirst Operations Console. The use name is "admin" and the password can be revealed by clicking on the "eye" icon.



## Server configuration

The basic server instance consists of:

- A single node (server size: "small")
- 1GB memory
- 2GB storage capacity

## Advanced server configuration

Through the **Configuration** tab, you can further customize the server instance with:

- Varying node, memory, and storage combinations
- MobileFirst Operations Console admin password
- LTPA keys
- JNDI configuration
- User registry
- TrustStore

- Operational Analytics configuration
- DashDB Enterprise Transactional 2.8.500 or Enterprise Transactional 12.128.1400 database selection (available in the *Professional 1 Application* plan)
- VPN

Mobile Foundation-3z

Manage >

Service Access Authorization

APPS USING SERVICE

Overview Configuration

Topology Security Server Configuration

Select the Server size plan and the number of instances of the server according to your needs. Based on the size of the Container, charges will be added to your Bluemix billing.

Topology Size

| Server Size  | S  | M   | L   | XL  | XXL  |
|--------------|----|-----|-----|-----|------|
| Memory (GB)  | 1  | 2   | 4   | 8   | 16   |
| Storage (GB) | 64 | 128 | 256 | 512 | 1024 |

## Applying MobileFirst Server Fixes

Updates to the Mobile Foundation Bluemix services are applied automatically without a need for human intervention, other than agreeing to perform the update.

When an update is available, a banner is displayed in the service's Dashboard page with instructions and action buttons.

## Further reading

Now that the MobileFirst Server instance is up and running, you can learn more

- MobileFirst Operations Console ([../setting-up-your-development-environment/console](#))
- Experience MobileFirst Foundation with these Quick Start tutorials ([../quick-start](#))
- Or read through all available tutorials ([../all-tutorials/](#))