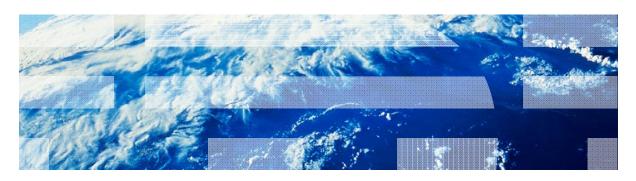


IBM Worklight V5.0.6 Getting Started

Previewing your application on BlackBerry 10





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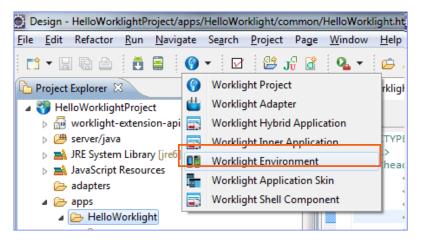
Agenda

- Adding a BlackBerry 10 environment
- Brief review of the BlackBerry 10 environment folder structure
- Running your application on the BlackBerry Ripple Emulator
- Packaging your application
- Packaging your application and running it on BlackBerry Simulator / handsets



Adding a New Environment

- Prior to creating a BlackBerry 10 application you need to define a WEBWORKS_HOME environment variable. The value of this variable must be the path to your WebWorks SDK.
- Click the IBM Worklight® icon, and select Worklight Environment to add an environment to your application.





Adding a New Environment

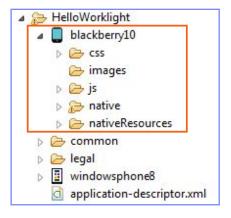
Select the BlackBerry 10 check box, and then click Finish.





Adding a New Environment

A blackberry10 folder is automatically added.





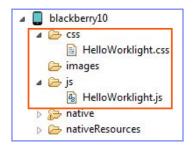
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Review of the BlackBerry 10 Environment Folder Structure

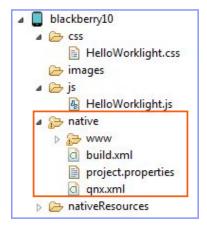
- The BlackBerry 10 environment includes the following folders:
 - css The properties that are specified here override the CSS files from the common folder.
 - images BlackBerry-specific images can be added here. If an image with the same file name exists in the common folder, it is overwritten in the BlackBerry application.
 - js JavaScript that can extend, and override if required, JavaScript from the common folder.





Review of the BlackBerry 10 Environment Folder Structure

- The **native** folder contains automatically generated, ready to be packaged, BlackBerry app code
 - The CSS, HTML, and js files in the native folder are regenerated every time that the application is built, so any changes made to these files are lost.
- The nativeResources folder contains resources that are used by the native code.





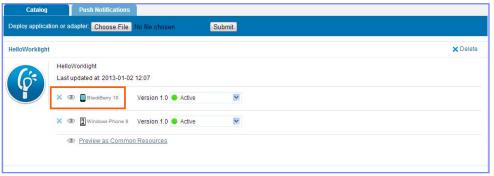
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Previewing in Ripple

- Ripple is available only on Google Chrome.
- Right-click your app and select Run As > Build all and deploy to build it.
- Open Worklight Console and choose preview as BlackBerry 10.



A preview page automatically opens.



Previewing in Ripple

Click Open Simple Preview at the top.

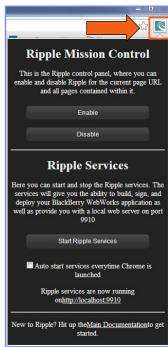




Previewing in Ripple

 Click the ripple icon on the right top bar of your browser, and click **Enable** to view the selected application in Ripple.





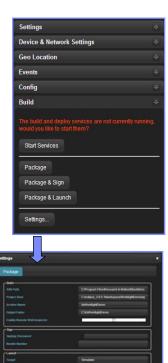


Agenda

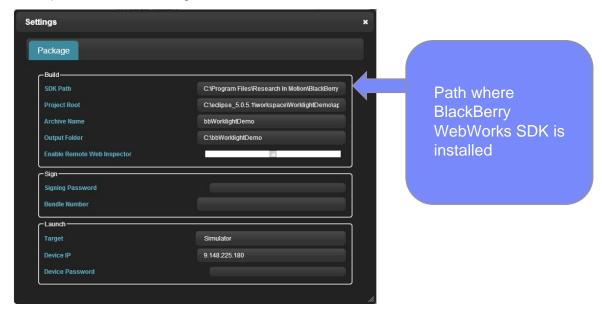
- Adding a BlackBerry environment
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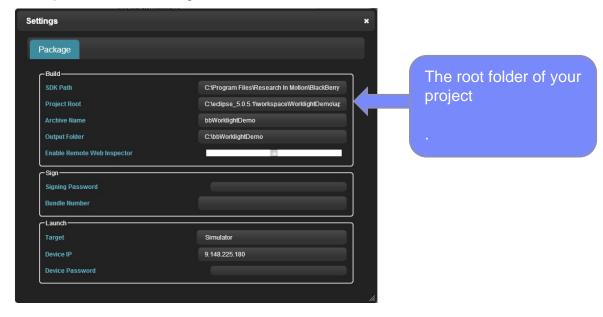
- As described in "Setting up your BlackBerry 10 development environment" tutorial, you must have BlackBerry WebWorks SDK installed to package an application for a simulator or mobile device.
- In BlackBerry Ripple, at the bottom of the right menu, select **Settings**.
 - A window opens.



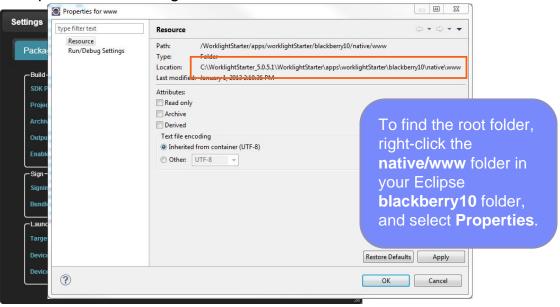










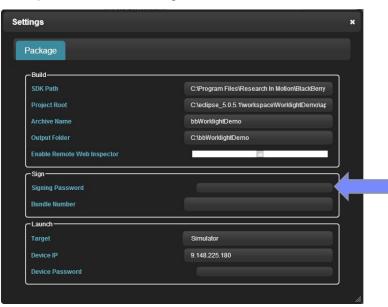








Complete the following values:



Sign you app with a BlackBerry 10 developer certificate to run it on a BlackBerry 10 handset. Specify your certificate password here.

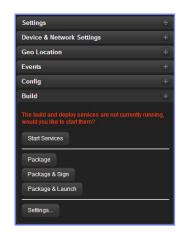
Signing is NOT required to run the application in the BlackBerry 10 Simulator.







- Before you package the application, click Start Services.
- Package your application.
- At the end of the packaging process, you receive indication about the process success or failure.
- For more information about application packaging, see the BlackBerry Developer website.





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Run application on a BlackBerry Simulator / handsets

- To load and run your application on a simulator or device, open a command prompt and navigate to the dependencies\tools\bin folder under your BlackBerry 10 SDK folder.
- Then, use the following command to load and run your application:
 - blackberry-deploy -installApp -password
 <simulator password> -device <simulator
 IP address> -package <BAR file path>
- Use the following command to remove your application:
 - blackberry-deploy -uninstallApp -device
 <IP_address> -package <bar file name> password <device password>





Run application Using Cordova Ant tool

- Worklight BlackBerry 10 application supports Cordova Ant tool to package and run your application.
- After you build your Worklight application, open the project.properties file under the /native directory and edit it as follows:
 - To run on a device:
 - qnx.device.ip = <Device IP>
 - qnx.device.password = <Device password>
 - qnx.device.pin = <Device PIN number>
 - qnx.sigtool.password = <BlackBerry 10 Code Signing Password>
 - To run on a simulator:
 - qnx.sim.ip = <simulator IP>
 - qnx.sim.password = <simulator password>
- To get a BlackBerry 10 Code Signing keys visit:
 Head Approved to the control of the con

https://www.blackberry.com/SignedKeys/codesigning.html



Run application Using Cordova Ant tool

- To run an application on a device or a simulator, use the following Cordova ant script:
 - ant qnx debug-device
 - ant qnx load-device
 - ant qnx debug-simulator
 - ant qnx load-simulator



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