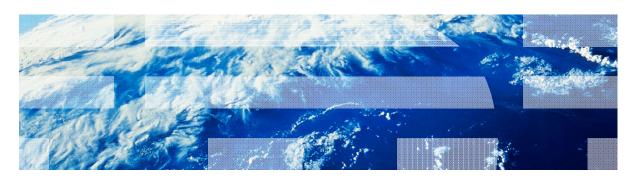


# IBM Worklight V5.0.5.1 Getting Started

## **Module 3.5 – Previewing Your Application in BlackBerry 10 Environment**





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### Agenda

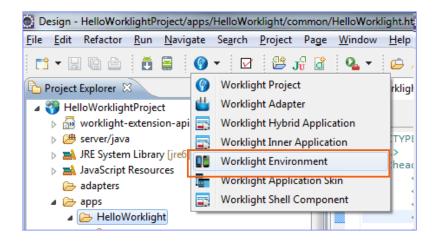
- Adding a BlackBerry 10 environment
- Brief review of the BlackBerry 10 environment folder structure
- Running your application on the BlackBerry Ripple Emulator
- Packaging your application
- Packaging your application and running it on BlackBerry Simulator / handsets



- 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.



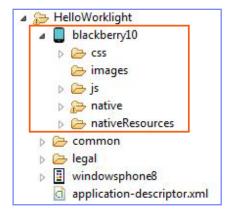


Select the BlackBerry 10 check box, and then click Finish.





A blackberry10 folder is automatically added.





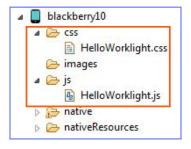
### Agenda

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#### Review of the BlackBerry 10 Environment Folder Structure

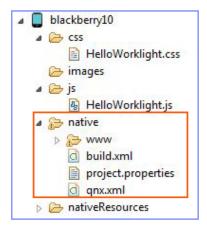
- The BlackBerry 10 environment includes the following folders:
  - css The properties that are specified here override the CSS files from the common folder.
  - images BlackBerry-specific images can be added here. If an image with the same file name exists in the common folder, it is overwritten in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





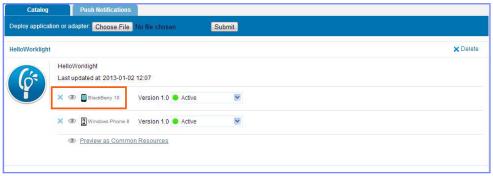
### Agenda

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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.

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### Previewing in Ripple

Click Open Simple Preview at the top.

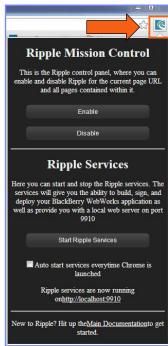




#### Previewing in Ripple

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







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- As described in module 2.3, 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.



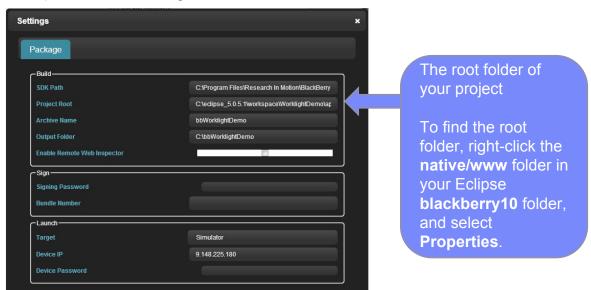


Complete the following values:

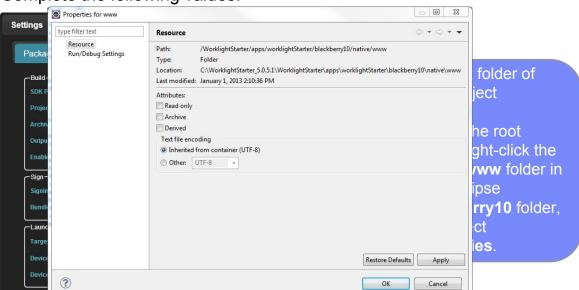
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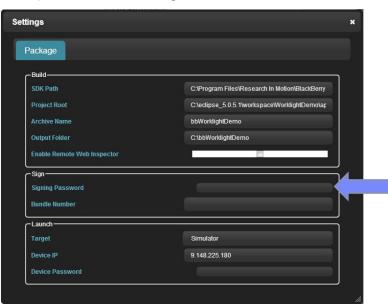








Complete the following values:



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

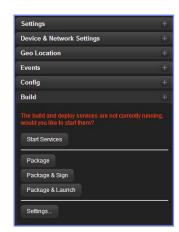
Signing is NOT required to run the application in the BlackBerry 10 Simulator.







- 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</pre>
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: 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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