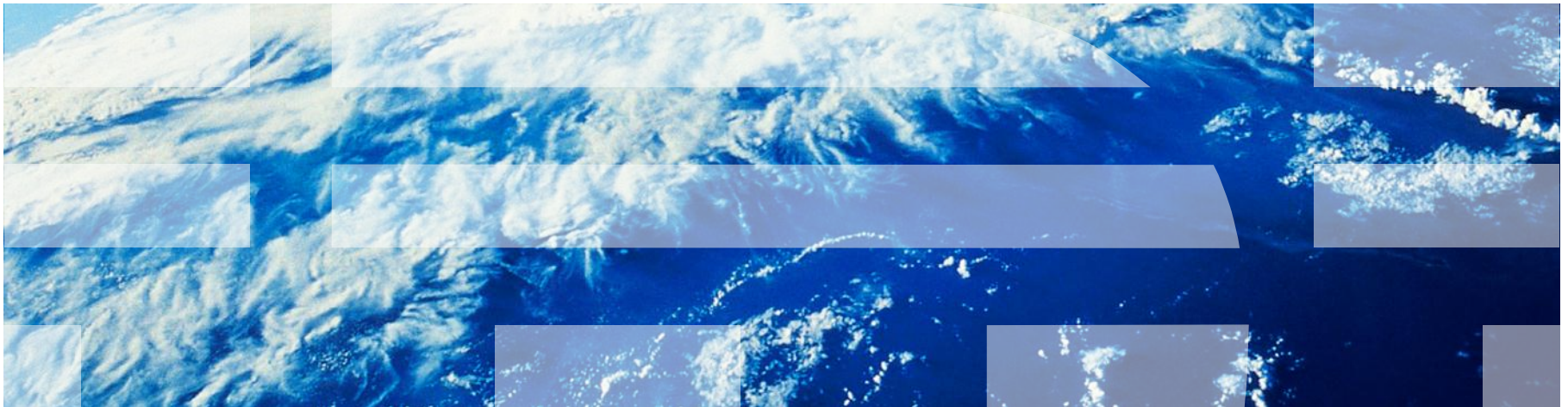


# ***IBM Worklight Foundation V6.2.0 Getting Started***

## **Previewing your application on Android**



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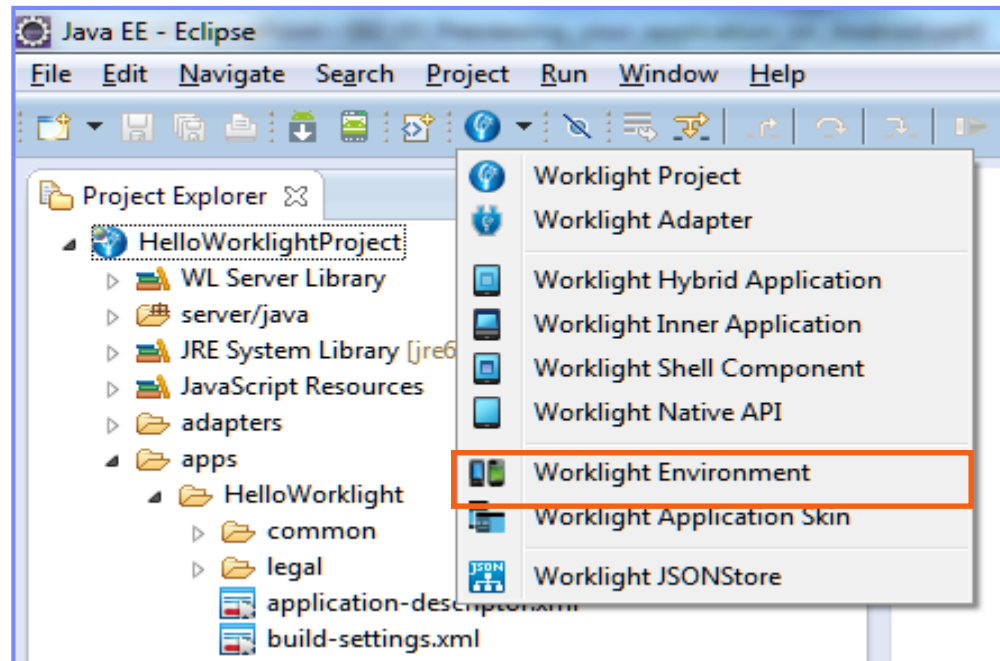
- See <http://www.ibm.com/ibm/us/en/>

# Agenda

- Adding an Android environment
- Review of the Android environment folder structure
- Previewing your application with the Mobile Browser Simulator
- Running your application on the Android Emulator
- Running your application on a real device

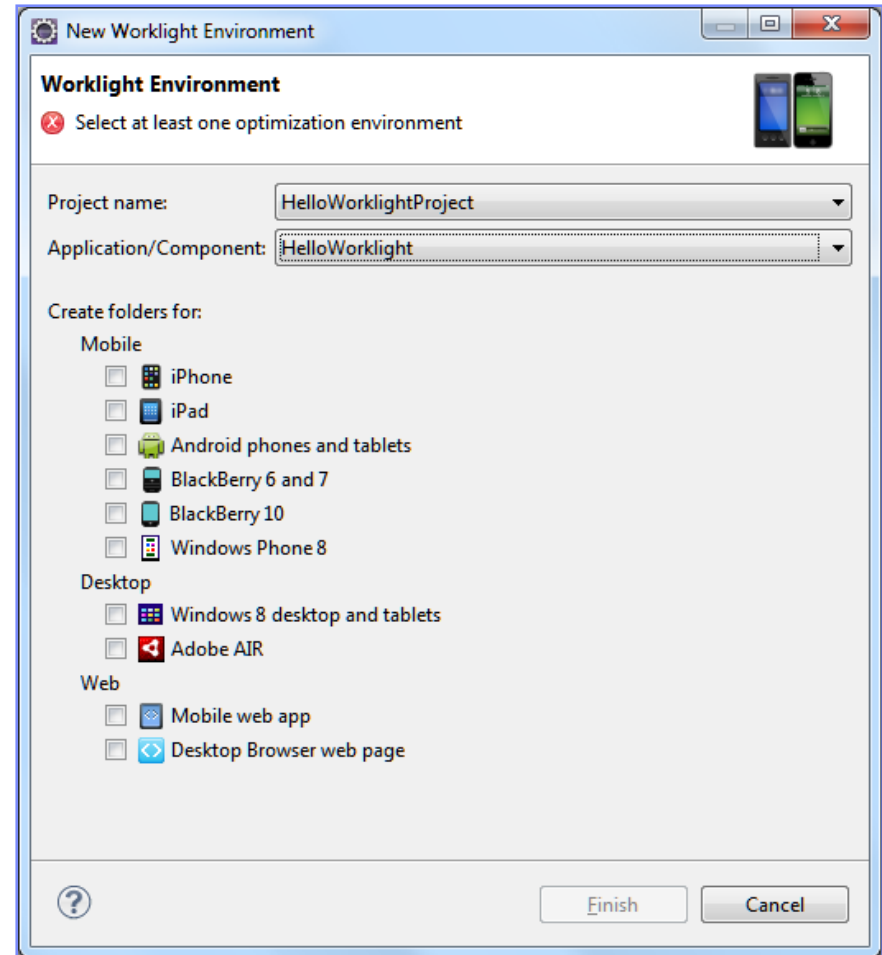
## Adding an Android environment

- Click the Worklight® icon and select **Worklight Environment** to add an environment to your application.



## Adding an Android environment - continued

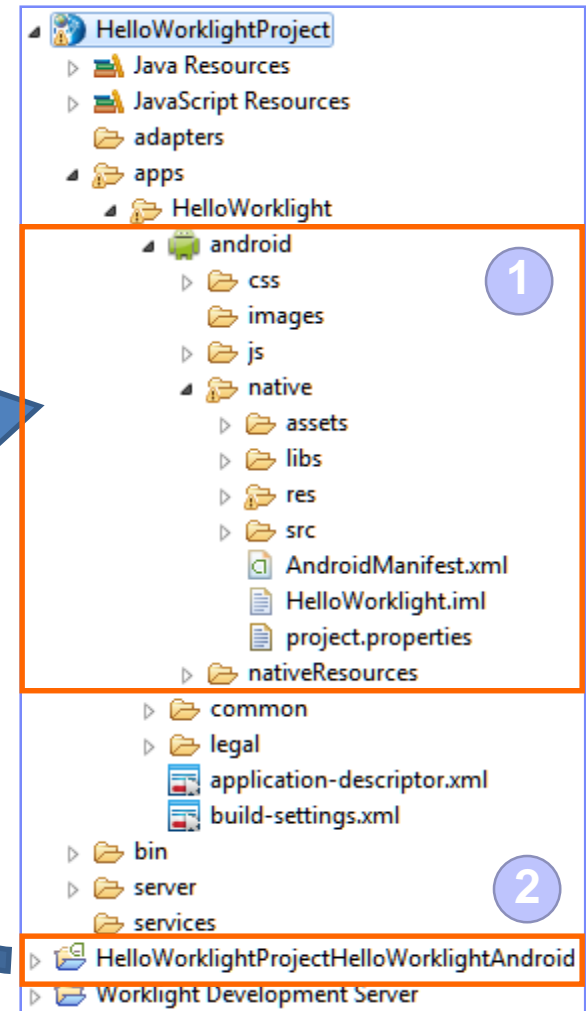
- Select the **Android phones and tablets** check box, and then click **Finish**.



## Adding an Android environment - continued

- Two folders are automatically added:
  - (1): The `android` folder inside the application folder.
  - (2): The Android project folder in your workspace.
- **Important:**

The auto-generated Android project folder does not contain a copy of the code, but it is mapped to a `native` folder within the `android` folder of the application.

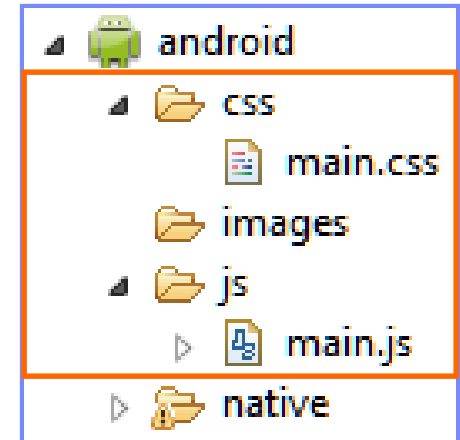


# Agenda

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## Review of the Android environment folder structure

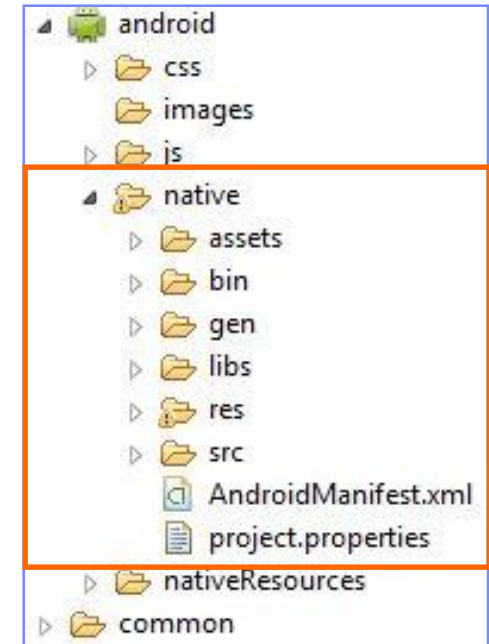
- The Android environment consists of the following folders:
  - `css` – The properties that are specified in this folder override the CSS files from the `common` folder.
  - `images` – Android-specific images can be added in this folder. If an image with the same file name exists in the `common` folder, it is overwritten in the Android application.
  - `js` – Contains JavaScript™ that can extend, and override if required, JavaScript code from the `common` folder.





## Review of the Android environment folder structure - continued

- The `native` folder under the `android` folder contains automatically generated Android application code that is automatically imported into the Eclipse workspace as an Android project.
  - Files in the `native\assets` 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.

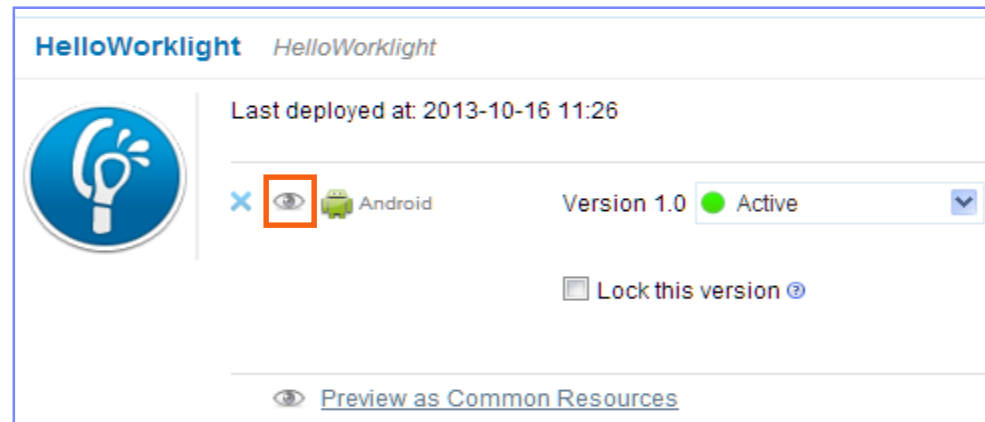


# Agenda

- Adding an Android environment
- Brief review of the Android environment folder structure
- **Previewing your application with the Mobile Browser Simulator**
- Running your application on the Android Emulator
- Running your application on a real device

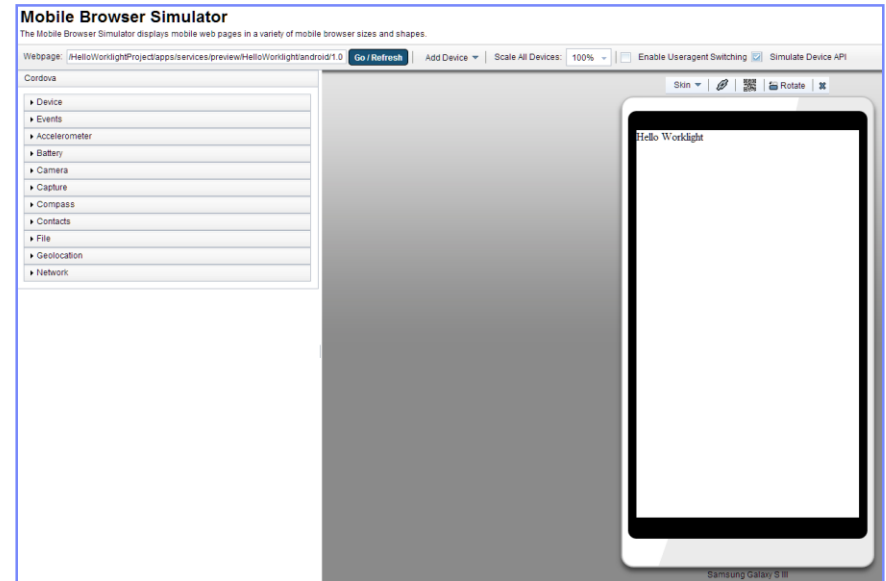
## Previewing your application with the Mobile Browser Simulator

- Once your application is built and deployed in Worklight Studio, you can preview it in the Mobile Browser Simulator.
- Right-click the project and select **Open Worklight Console**, or browse to the Worklight Console, and then click the preview icon beside the environment name.



## ***Previewing your application with the Mobile Browser Simulator - continued***

- The Mobile Browser Simulator (MBS) can be used to emulate Cordova, or to preview your application with different device skins.
  - *Limitation about the Mobile Browser Simulator.*
    - To preview an application that contains security tests that rely on the device (such as auto-provisioning or authenticity), you must temporarily change the security test settings so that they do not use the device identification.

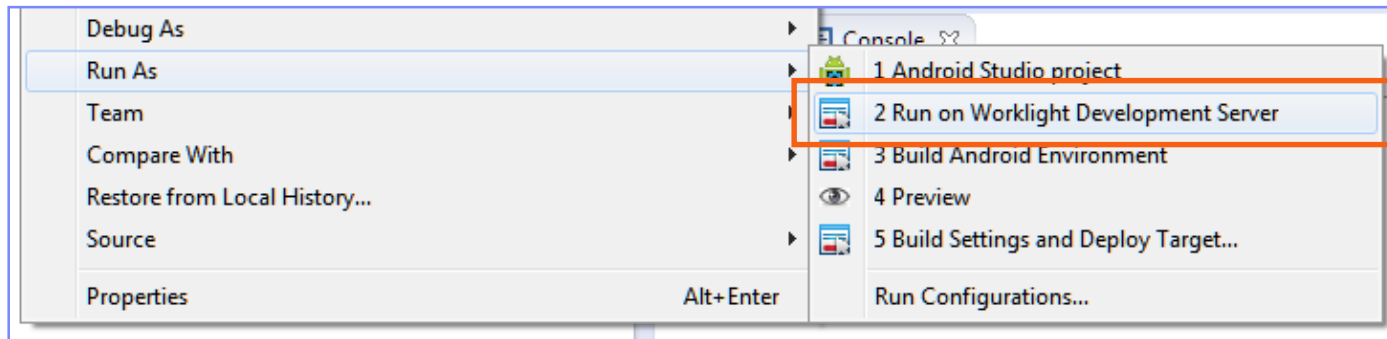


# *Agenda*

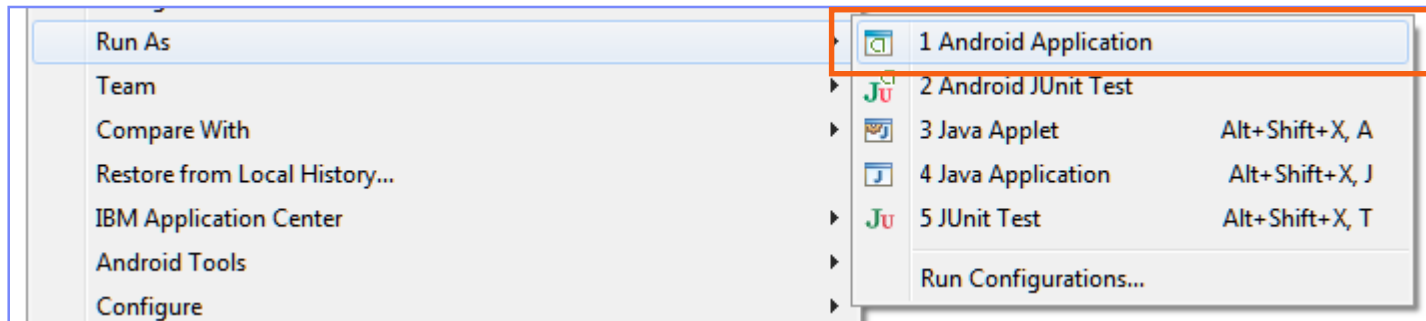
- Adding an Android environment
- Review of the Android environment folder structure
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## Running your application on the Android Emulator

- Right-click the Worklight application, and select **Run As > Run on Worklight Development Server**.

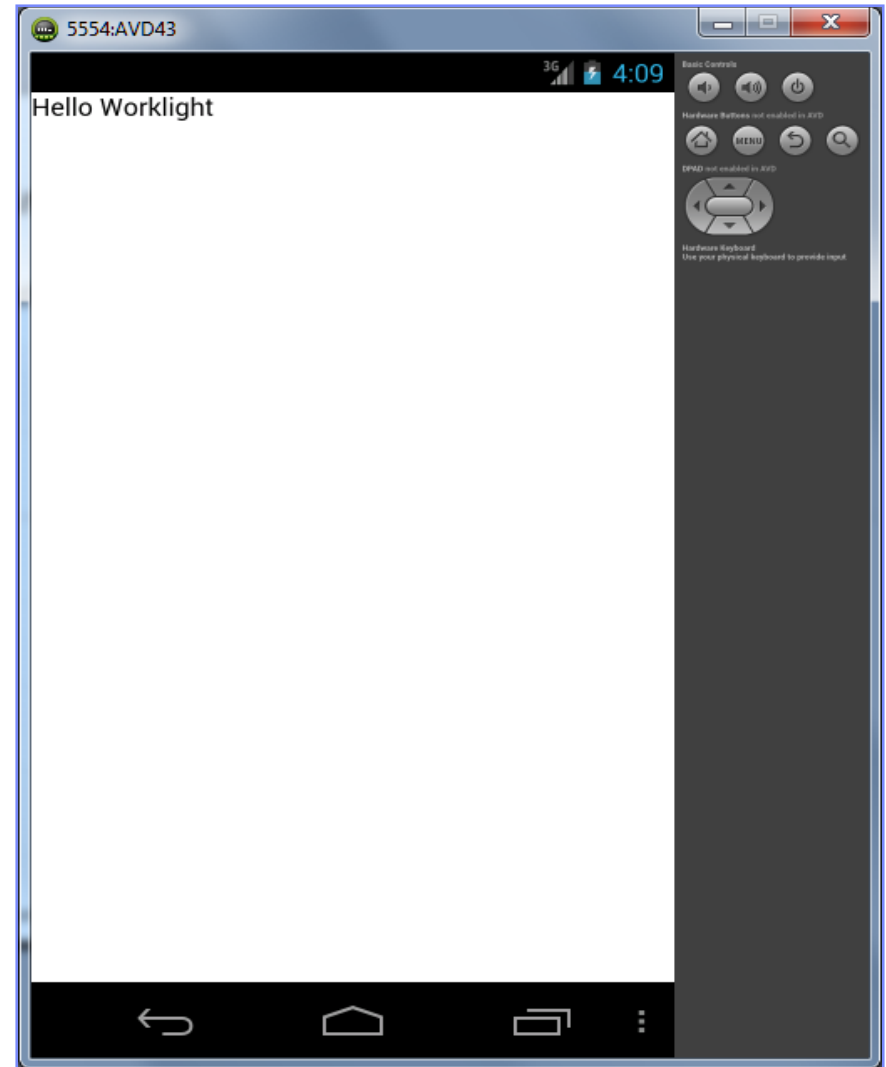


- Right-click the automatically generated Android Project, and select **Run As > Android Application**.



## ***Running your application on the Android Emulator - continued***

- You have created your first Android application.



# ***Agenda***

- Adding an Android environment
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- **Running your application on a real device**



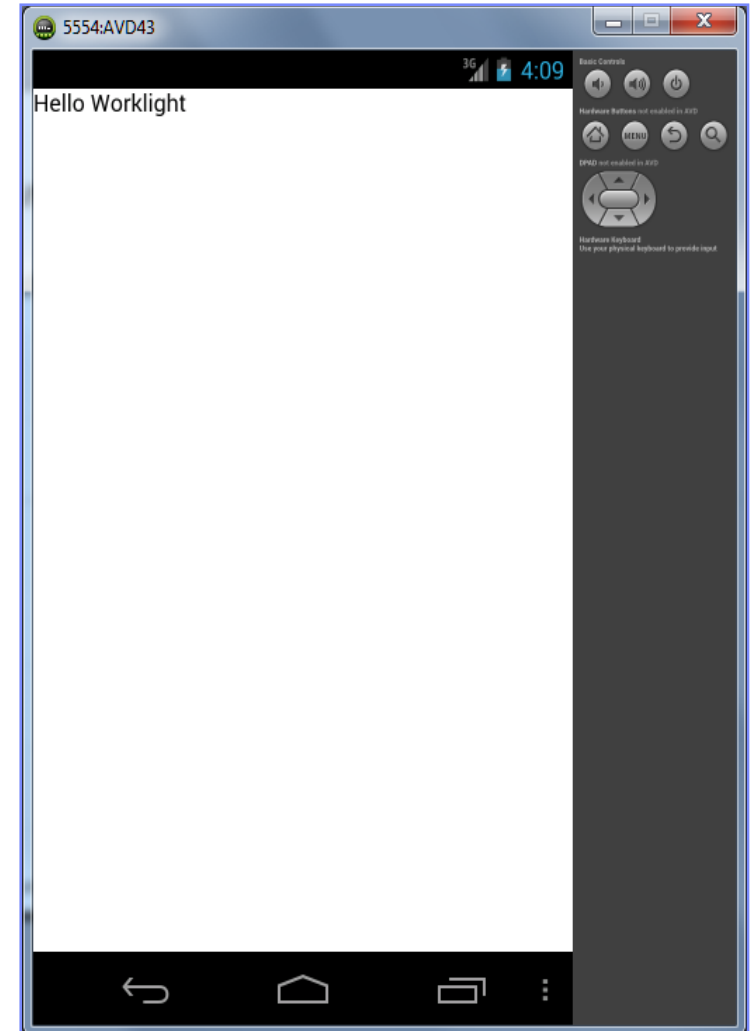
## ***Running your application on a real device***

- When an Android device is connected to the computer with a USB cable, the Eclipse ADT plug-in automatically recognizes the Android device and attempts to deploy applications onto it.
  
- For more information about device drivers, see <http://developer.android.com/sdk/win-usb.html>

## Exercise

Use the HelloWorklight application that you created earlier

- Add an Android environment to the application
- Build and deploy your application to the Worklight Server
- Run the auto-generated Android application on the Android Emulator or real device



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