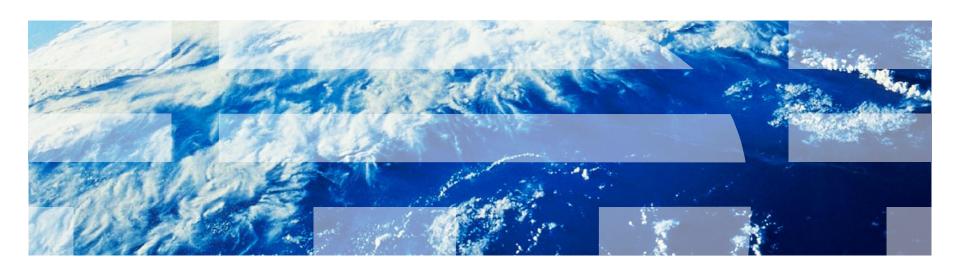


IBM Worklight Foundation Cloud Edition V6.2.0 Getting Started

Testing a Worklight mobile application with IBM Worklight Foundation Cloud Edition





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- Prerequisites
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- Testing the mobile application
- For more information



Prerequisites

- You must install IBM Worklight® Foundation Developer Edition to follow the steps in this module. For more information about how to install Worklight Developer Edition, see https://www14.software.ibm.com/webapp/iwm/web/signup.do?source =swg-worklight&S_PKG=ov1268&S_CMP=web_dw_rt_swd
- To follow the steps in this module, you must use the Worklight Starter sample project from IBM developerWorks®. To download the sample project, see http://public.dhe.ibm.com/software/mobile-solutions/worklight/docs/v620/WorklightStarter.zip



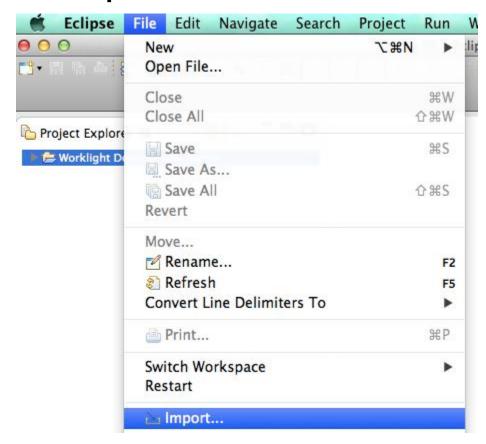
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Importing the sample project (1 of 5)

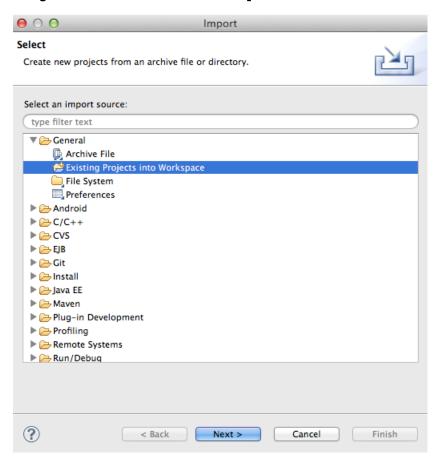
 Open a new workspace in the Eclipse installation where you installed Worklight Developer Edition. When the new workspace opens, click File > Import in the toolbar.





Importing the sample project (2 of 5)

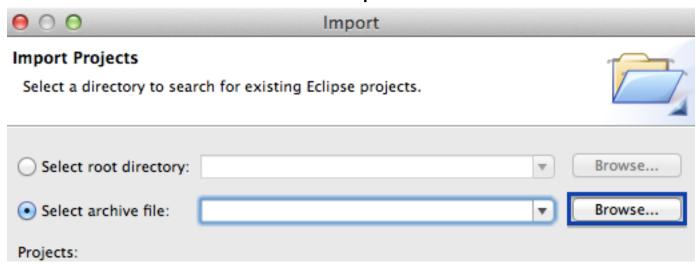
 In the import wizard, expand the General section and select Existing Projects into Workspace. Click Next.





Importing the sample project (3 of 5)

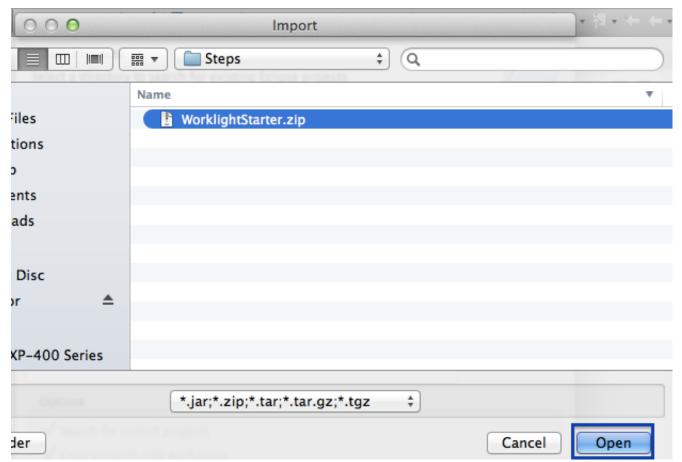
Select the Select archive file option and then click Browse.





Importing the sample project (4 of 5)

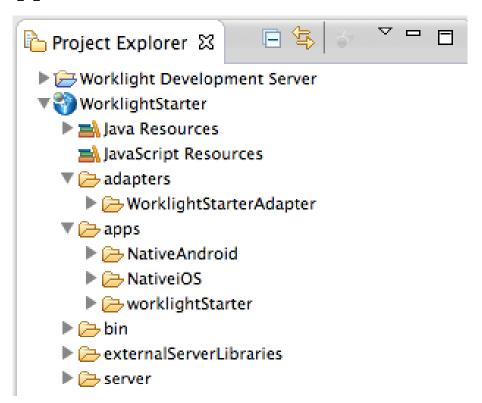
 Navigate to the location where you downloaded the archive file earlier. Select the WorklightStarter.zip file and click Open.





Importing the sample project (5 of 5)

Click Finish in the import wizard to import the sample project. When the import completes, The WorklightStarter project is in your workspace. Expand the project folder as well as the adapters and apps folders.





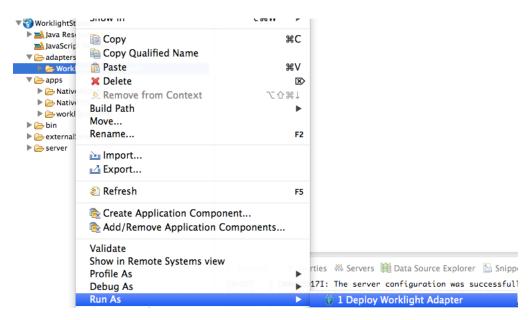
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Building the adapter and application artifacts (1 of 5)

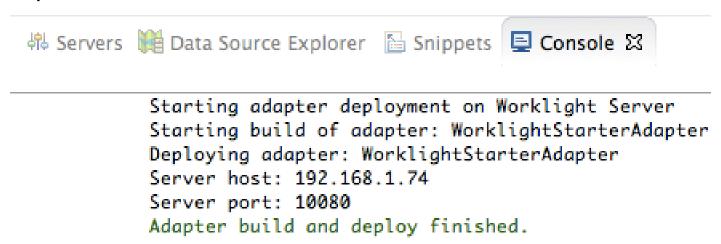
You must build and deploy the adapter and application artifacts to deploy to the cloud. In this context, build means to create the executable version of the WorklightStarter adapter and application. Deploying an adapter or application automatically creates the executable code and deploy it. Right-click WorklightStarterAdapter and select Run As > Deploy Worklight Adapter.





Building the adapter and application artifacts (2 of 5)

 When the adapter build is complete, a message is displayed in the Eclipse console.





Building the adapter and application artifacts (3 of 5)

Right-click the WorklightStarter folder under the apps folder. Select
 Run As > Build All Environments.



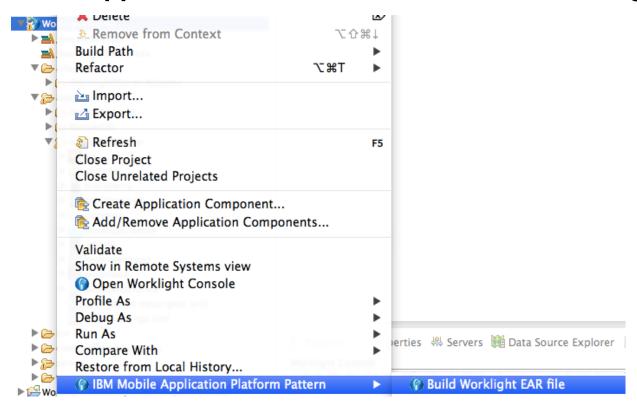
 When the application build is complete, a message is displayed in the Eclipse console. You can safely ignore errors that are related to specific environments, such as Android, AIR, and Windows 8.





Building the adapter and application artifacts (4 of 5)

The final step before you deploy your mobile application to the cloud is to build the EAR file to use in the Worklight mobile application pattern. Right-click the WorklightStarter project and select IBM Mobile Application Platform Pattern > Build Worklight EAR file.





Building the adapter and application artifacts (5 of 5)

When the EAR file build completes, a message is displayed in the Eclipse console.



Project 'WorklightStarterWorklightStarterAndroid' was imported.

Application 'worklightStarter' with all environments build finished with error:

Deploying application 'worklightStarter' with all environments to Worklight Ser

Application 'worklightStarter' deployed successfully with all environments

Packaging Worklight EAR file for IBM PureApplication System: WorklightStarter

Operation succeed - Worklight EAR file generated at: bin/WorklightStarter.ear



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Logging in to the PureApplication Service

- Log in to the PureApplication® Service to build and deploy your Worklight mobile application pattern. Open the http://service_ip>/login URL in your browser. The value of SERVICE_IP is the IP address of the PureApplication Service instance that you are using.
- Log in to the PureApplication Service with the credentials that were provided to you after you registered.

IBM PureApp	lication Service	
User name:	worklight	
Password:		
	Log In	
		IBM.



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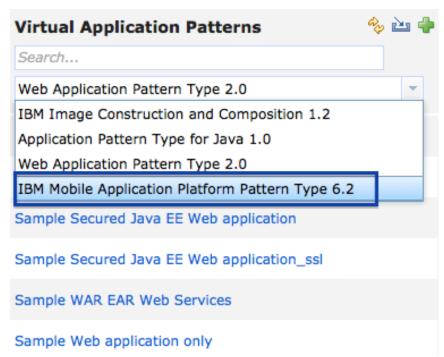
Deploying the Worklight Analytics Server (1 of 10)

There are two deployment options in this module. You can deploy just the Worklight Server itself to run the application. Optionally, you can deploy the Worklight Analytics Server. The Worklight Analytics Server provides information about application usage, mobile OS usage, service integration performance, and more. To deploy the Worklight Analytics Server, follow the steps that are described in the Deploying the Worklight Analytics Server section of this module. Otherwise, skip to the Configuring the basic template deployment section.



Deploying the Worklight Analytics Server (2 of 10)

- From the PureApplication Service home page, click Patterns > Virtual Application.
- On the Virtual Application Patterns page, select the IBM Mobile Application Platform Pattern Type 6.2 entry from the drop-down list.





Deploying the Worklight Analytics Server (3 of 10)

 Select the Worklight Starter – Analytics pattern. Click the Deploy link in the upper right toolbar.

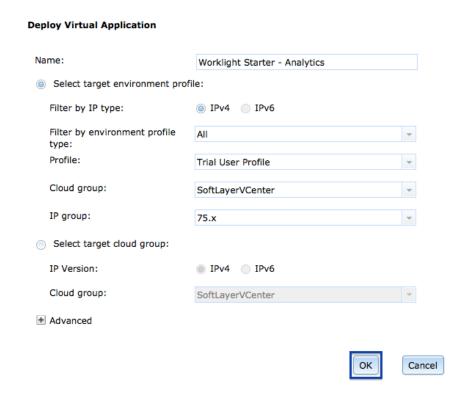
Worklight Starter - Analyti	ics	Deploy
Application ID:	a-ccc4d931-5550-4610-bbcd-f7198d1795b8	
Description:		
Created by:	cbadmin	
Updated by:	cbadmin	
Created on:	Aug 27, 2014, 4:39:06 PM	
Updated on:	Aug 27, 2014, 10:51:18 PM	
Preview:	•	





Deploying the Worklight Analytics Server (4 of 10)

In the deployment dialog, click OK to begin the deployment process. Important: Make sure that the Select target environment profile option is selected in the deployment dialog. If you do not select this option, your deployment fails.





Deploying the Worklight Analytics Server (5 of 10)

 After several seconds, a message is displayed that indicates the start of the deployment. Go to the Virtual Application Instances page by clicking the clicking here link.

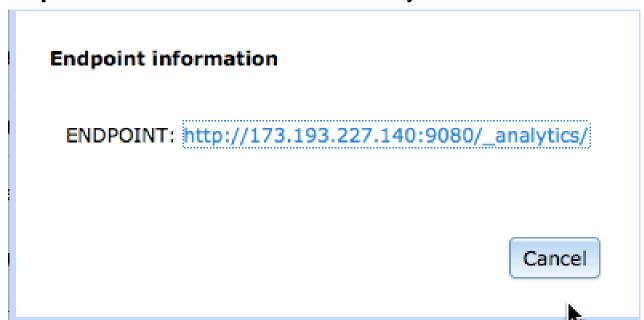
Deploying the virtual application 'Worklight Starter - Analytics'. You can check the status by clicking here			
Description:			
Created by:	cbadmin		
Updated by:	cbadmin		
Created on:	Aug 27, 2014, 4:39:06 PM		
Updated on:	Aug 27, 2014, 10:51:18 PM		
Preview:			





Deploying the Worklight Analytics Server (6 of 10)

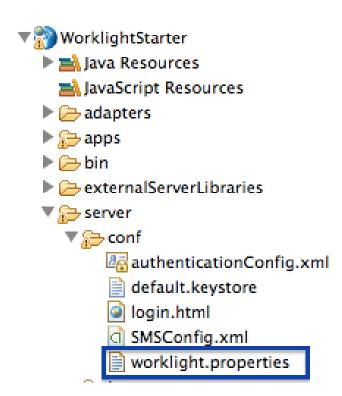
- Monitor the Status field for updates on the deployment progress.
 After approximately 10 minutes, the deployment completes and the Status field changes to a Running state, which indicates successful deployment.
- Scroll down to the Middleware perspective section and click the Endpoint link next to the WAS entry.





Deploying the Worklight Analytics Server (7 of 10)

Copy the URL in the dialog, and then return to the Worklight Studio environment. Expand the WorklightStarter project and then navigate to the worklight.properties file in the server/conf folder.





Deploying the Worklight Analytics Server (8 of 10)

Find the Worklight Analytics section in the worklight.properties file. Uncomment the following properties: wl.analytics.logs.forward, wl.analytics.url, wl.analytics.queues, wl.analytics.queue.size, and wl.analytics.forwardIntervalInSeconds.



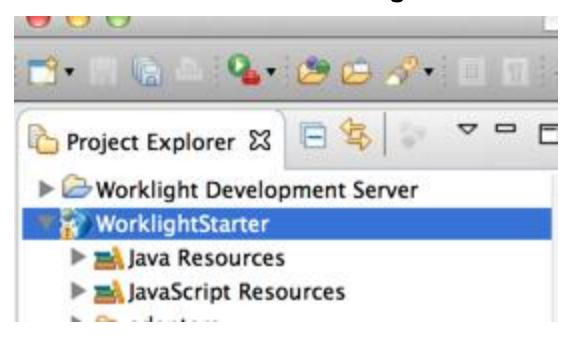
Deploying the Worklight Analytics Server (9 of 10)

- Set the wl.analytics.logs.forward property to true.
- Set the wl.analytics.url property to http://<IP_ADDRESS>:9080/_analytics/data where IP_ADDRESS is the value that you copied on slide 26. In this example, the URL that you copied is http://173.193.227.140:9090/ analytics/data.
- Set the wl.analytics.queues and wl.analytics.queue.size properties to a value of 1.
- Set the wl.analytics.forwardIntervalInSeconds property to a value of 3.



Deploying the Worklight Analytics Server (10 of 10)

 Save your work and rebuild the EAR file by right-clicking on the WorklightStarter project and selecting IBM Mobile Application Platform Pattern > Build Worklight EAR file.





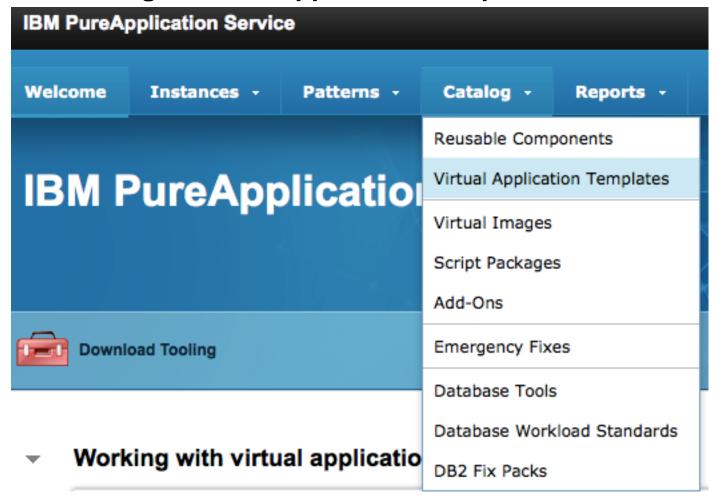
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Configuring the basic template deployment (1 of 12)

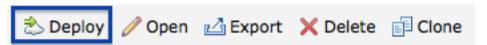
Click Catalog > Virtual Application Templates.





Configuring the basic template deployment (2 of 12)

 Select the Worklight Basic Template. Click Deploy in the upper right toolbar.

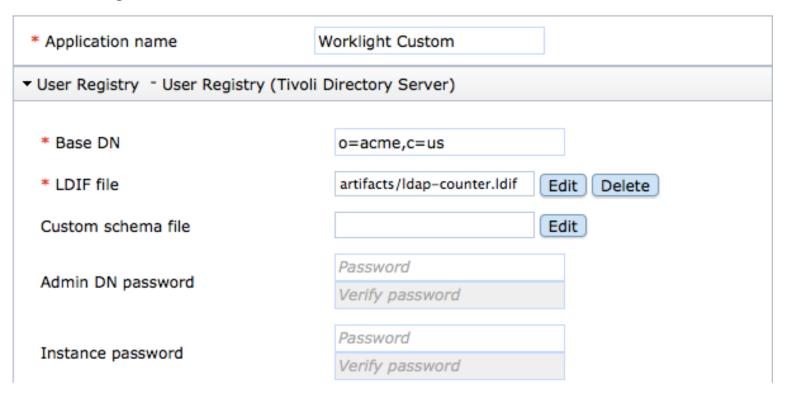


On the Configure and Deploy Application dialog in the Application name field, enter Worklight Custom (or a name of your choice). Now you must configure the template with the artifacts that you previously built in Worklight Studio in the project that you imported.



Configuring the basic template deployment (3 of 12)

A sample LDIF file is provided for the User Registry configuration.
 You can also upload your own LDIF file, but you must update the other configuration, such as Base DN.





Configuring the basic template deployment (4 of 12)

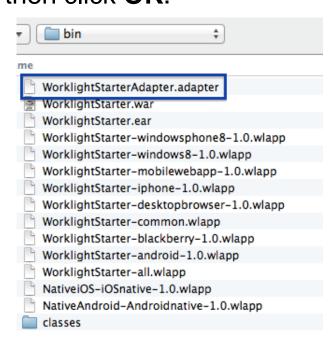
 Scroll down to the Worklight Adapter and Worklight Application sections.

▼ Worklight Adapter - Worklight Adapte	er			
* Worklight Adapter Files	Edit			
▼ Worklight Application - Worklight Application				
* Worklight Application Files	Edit			



Configuring the basic template deployment (5 of 12)

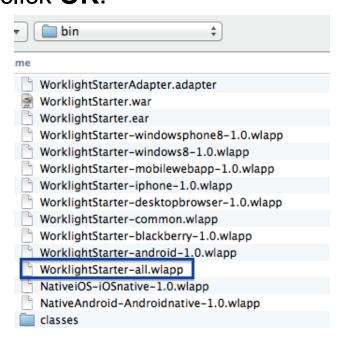
• Click Edit next to the Worklight Adapter Files field and then click Browse in the file dialog. Navigate to the directory of the Eclipse workspace that you opened earlier. From the workspace directory, navigate to the WorklightStarter/bin directory. Select the WorklightStarterAdapter.adapter file and click Open and then click OK.





Configuring the basic template deployment (6 of 12)

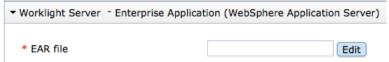
Click Edit next to the Worklight Application Files field and then click Browse in the file dialog. Navigate to the directory of the Eclipse workspace that you opened earlier. From the workspace directory, navigate to the WorklightStarter/bin directory. Select the WorklightStarter-all.wlapp file and click Open and then click OK.



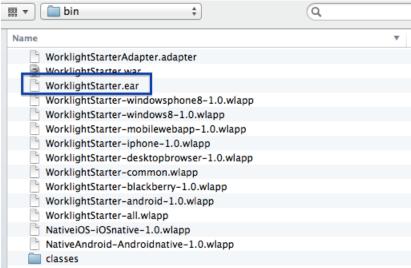


Configuring the basic template deployment (7 of 12)

Scroll down to the Worklight Server section.



Click Edit next to the EAR file field and then click Browse in the file dialog. Navigate to the directory of the Eclipse workspace that you opened earlier. From the workspace directory, navigate to the WorklightStarter/bin directory. Select the WorklightStarter.ear file, click Open, and then click OK.





Configuring the basic template deployment (8 of 12)

 Wait for the EAR file to finish uploading, which might take several minutes. When the upload is complete, scroll to the <u>first</u> Worklight Server > User Registry – Remote LDAP Registry section.

▼ Worklight Server → User Registry - Remote LDAP registry	
* Role name	
User role mapping	
Group role mapping	
* Mapping special subjects	NoneAllAuthenticatedUsersEveryone



Configuring the basic template deployment (9 of 12)

- In the Role name field, enter worklightadmin.
- In the three remaining Worklight Server > User Registry Remote LDAP Registry sections, enter the following names in the Role name fields in no particular order:
 - worklightoperator
 - worklightdeployer
 - worklightmonitor



Configuring the basic template deployment (10 of 12)

After you configure the Worklight Server > User Registry –
 Remote LDAP Registry sections, scroll to the first Worklight Server
 → WL Database – DB2® Data Source section. In the Resource
 References of Data Source field, enter:

worklightadmin.war#jdbc/WorklightAdminDS

▼ Worklight Server → WL Database - DB2 Data Source	
worklightadmin.war#j dbc/WorklightAdminDS	
50	
* Maximum Connections 50	
180	
Connection Pool data sour	
Edit	



Configuring the basic template deployment (11 of 12)

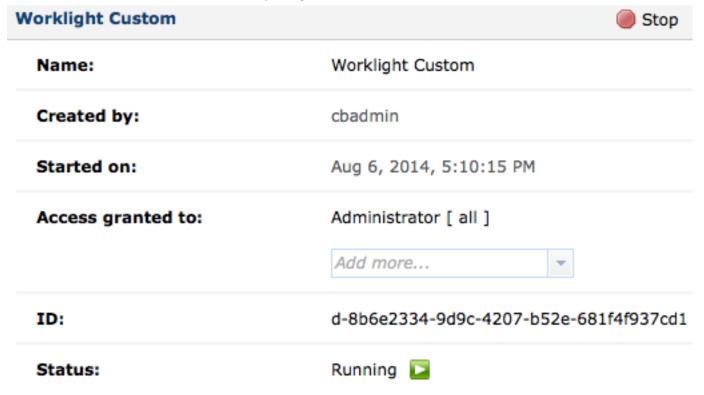
- Scroll to the second Worklight Server → WL Database DB2 Data Source section. In the Resource References of Data Source field, enter: WorklightStarter.war#jdbc/WorklightDS
- The configuration of the template is now complete. Click **OK** in the configuration dialog. In the **Deploy Virtual Application** dialog, click **OK** again to begin the deployment.
- After several seconds, a status message is displayed that indicates that the deployment began. Go to the Virtual Application Instances page by clicking the clicking here link in the status message.





Configuring the basic template deployment (12 of 12)

 Monitor the Status field for updates on deployment progress. After several minutes, the Status field changes to a Running state, which indicates successful deployment.





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Configuring the endpoint link (1 of 2)

- Scroll down to the Middleware perspective section and click the Endpoint link next to the WAS entry.
 - Middleware perspective (22 in total)

```
▶ DB2 (WL_Database-db2) ⇒ Endpoint
```

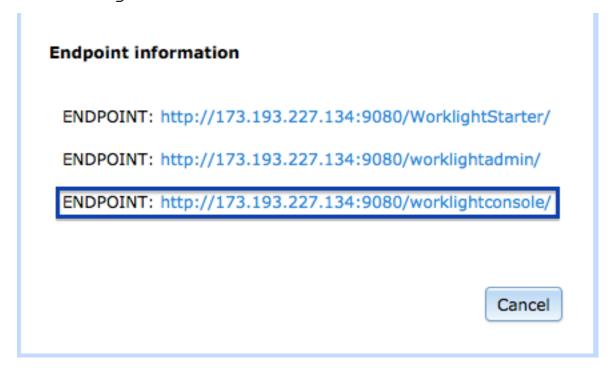
- WORKLIGHT_INSTALL (Worklight_Server-was)
- WORKLIGHT (Worklight_Server-was)
- ▶ **WAS** (Worklight_Server-was) → Endpoint
- ▶ IDSADMIN (User_Registry-tds) → Endpoint
- ▶ ► TDS1 (User_Registry-tds) → Endpoint

Show more



Configuring the endpoint link (2 of 2)

Click the URL that ends in /worklightconsole/ to open the Worklight Console. Important: Record the URL that ends with /WorklightStarter/ to use later.





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Testing the mobile application (1 of 13)

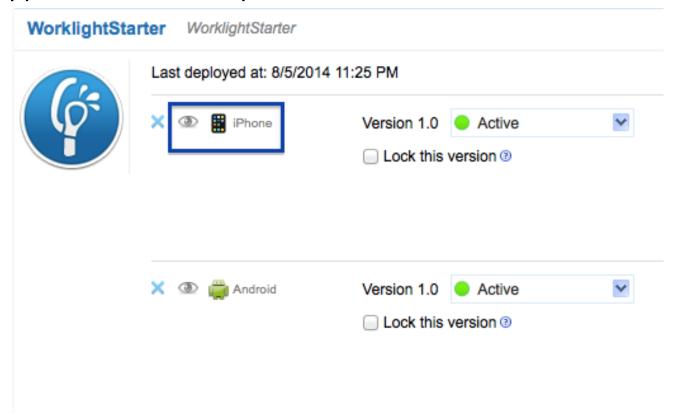
 On the Worklight Console login page, enter your user name and password. If you did not change the LDIF file that was included in the pattern, the user name is demo and the password is demo.





Testing the mobile application (2 of 13)

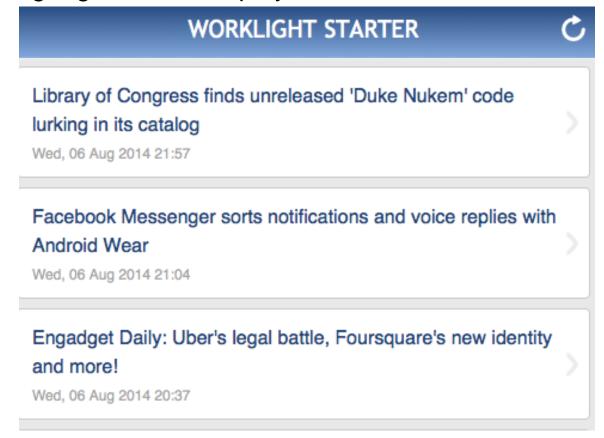
 In the console, the WorklightStarter application and WorklightStarterAdapter adapter are available. To test the application, click the preview icon for the iPhone environment.





Testing the mobile application (3 of 13)

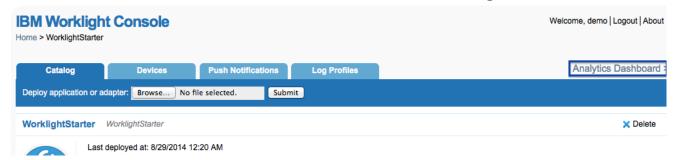
 A mobile application screen with a list of news feeds from engadget.com is displayed.



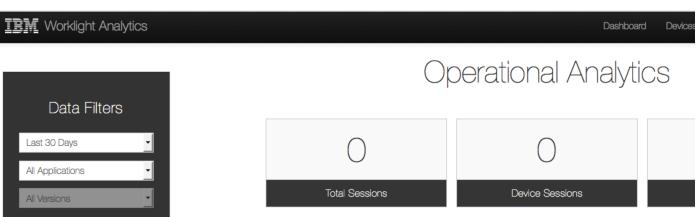


Testing the mobile application (4 of 13)

If you configured the environment for analytics, an Analytics
 Dashboard link is available on the Worklight Console home page.



Click the Analytics Dashboard link to view the Worklight Analytics console.





Testing the mobile application (5 of 13)

You can test the mobile application by deploying to an actual device of simulator/emulator. The steps for testing vary based on the target mobile operating system. For more information about configuring for different environments, see the "Setting up your development environment" category of the Getting Started page on IBM developerWorks, at

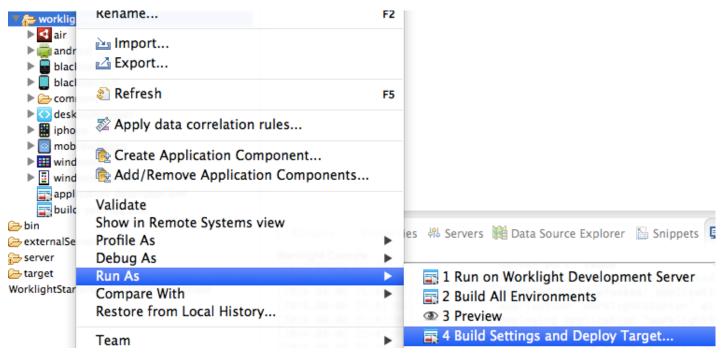
https://www.ibm.com/developerworks/mobile/worklight/getting-started.html.

 Note: To deploy the mobile application to the iPhone simulator, you must have access to an XCode environment.



Testing the mobile application (6 of 13)

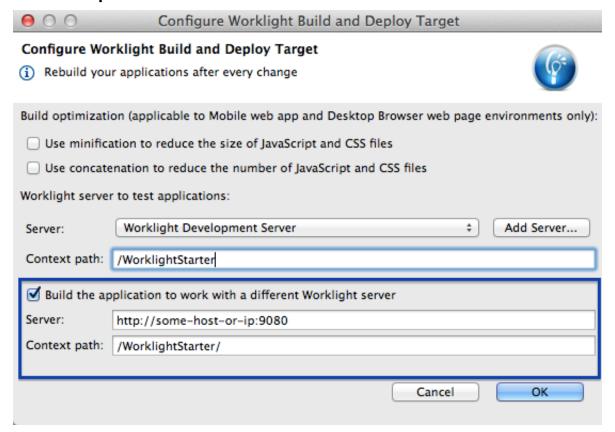
 Return to Worklight Studio and right-click the worklightStarter application. Click Run As > Build Settings and Deploy Target.





Testing the mobile application (7 of 13)

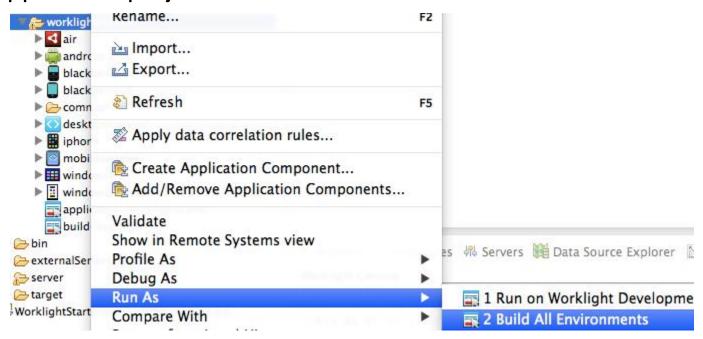
 In the Configure Worklight Build and Deploy Target dialog, select the Build the application to work with a different Worklight server option.





Testing the mobile application (8 of 13)

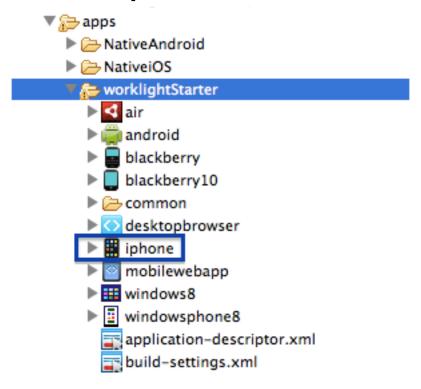
- In the Server field, enter the protocol, host/IP, and port from the URL that you copied on slide 45. In the Context path field, enter /WorklightStarter/.
- Click OK to apply the changes. Right-click the worklightStarter application project and click Run As > Build All Environments.





Testing the mobile application (9 of 13)

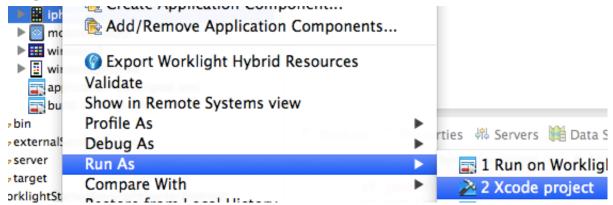
Locate the iphone folder under the worklightStarter application.





Testing the mobile application (10 of 13)

 Right-click the iphone folder and then click Run As > XCode project.



 After several seconds, a message is displayed in the Worklight Studio console that indicates that the XCode project was successfully opened.

```
Worklight Console

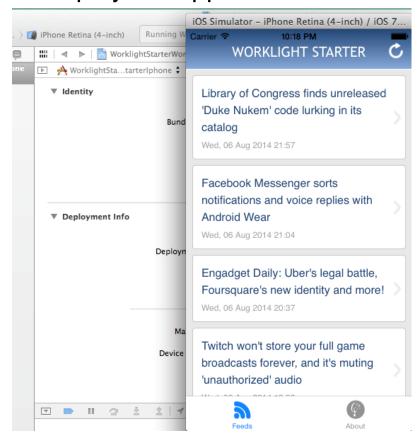
[2014-08-06 21:20:47]
[2014-08-06 21:40:55]
[2014-08-06 21:41:06]
[2014-08-06 21:41:06]
[2014-08-06 21:41:06]
[2014-08-06 21:41:08]
[2014-08-06 21:41:08]
[2014-08-06 21:41:08]
[2014-08-06 21:41:13]

Adapter build and deploy finished.
Starting build process: application 'worklightStarter', environment 'iphone' build finished.
Deploying application 'worklightStarter' with environment 'iphone' to Worklight-Starter' deployed successfully with environment 'iphone'.
Success: opened Xcode project 'WorklightStarterWorklightStarterIphone'.
```



Testing the mobile application (11 of 13)

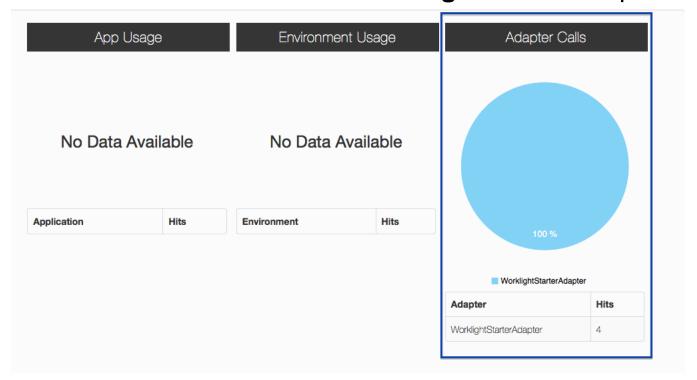
 Switch over to the XCode environment to see the WorklightStarter project. In the top toolbar, click Product > Run to build the project and deploy the application to a simulator.





Testing the mobile application (12 of 13)

If you configured the environment for analytics, return to the Worklight Analytics console. Refresh the page in your browser and then scroll down to the Adapter calls section. You can see that at least one call was made to the WorklightStarter adapter.





Testing the mobile application (13 of 13)

 You successfully tested a Worklight mobile application with IBM Worklight Foundation Cloud Edition.



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For more information

- For more information about deploying to the cloud, see the IBM Worklight user documentation at:
 - http://ibm.biz/knowctr#SSZH4A_6.2.0/com.ibm.worklight.deploy.do c/topics/c_pureapp.html



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