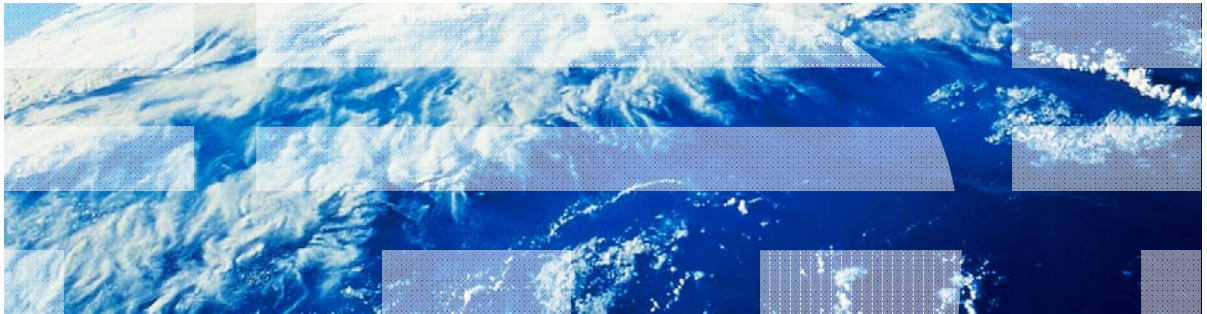


IBM Worklight V6.0.0 Getting Started

General information when developing desktop applications



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Agenda

- Supported desktop environments
- Development
- Environment-specific capabilities
- Environment-specific images
- Debugging the application
- Deployment

Supported desktop environments

- IBM Worklight® supports the following desktop environments:
 - Windows Store Apps - Built into the Windows 8 OS
 - Adobe Air - <http://get.adobe.com/air/>

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Development

- Windows Store apps
 - The development is done in the Worklight Studio and in Microsoft Visual Studio Express 2012 for Windows 8.
 - To open the project in Visual Studio Express 2012 for Windows 8, double-click the <APPLICATION_NAME>.jsproj file in the native folder.
 - The files in the project in Visual Studio Express 2012 for Windows 8 are the files in the Native folder in the Eclipse project.
- Adobe Air:
 - The development is done entirely in Worklight Studio.

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Environment-specific capabilities: Windows Store apps (1 of 2)

- Some useful Windows Store Apps APIs implemented in the Worklight API:
 - Initialize an option menu: `WL.OptionsMenu.init();`
 - Add an item to the option menu: `WL.OptionsMenu.addItem('ID', function() {}, ITEM_TEXT, {image: 'PATH_TO_IMAGE_IN_THE_RESOURCES_FOLDER'});`
 - Override an icon with a default Windows 8 icon:
`document.getElementById('#ID').winControl.icon = 'refresh';`
- Other Windows Store Apps APIs:
 - `Windows.Devices.Geolocation`
 - `Windows.Media.Capture`
 - `Windows.ApplicationModel.Contacts`

Environment-specific capabilities: Windows Store apps (2 of 2)

- Add Options menu to your application

Worklight Starter

Engadget's holiday gift guide 2012: gaming	>
Mon, 19 Nov 2012 12:00:00 EDT	
CE-Oh no he didn't! SpaceX creator Elon Musk says Ariane 5 rocket has 'no chance'	>
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Start button utility strips even more 'B' from Windows 8, has sold 'hundreds of thousands'	>

```
function afterInitEnv() {
  WL.OptionsMenu.init();
  WL.OptionsMenu.addItem('tab1', function() {selectTab('#feedsWrapper');}, Messages.tabFeed, {image: 'images/feed.png'});
  WL.OptionsMenu.addItem('tab2', function() {selectTab('#aboutTab');}, Messages.tabAbout, {image: 'images/about.png'});
  WL.OptionsMenu.addItem('tab3', function() {loadFeeds();}, Messages.reload, {image: 'images/reload.png'});
}
```

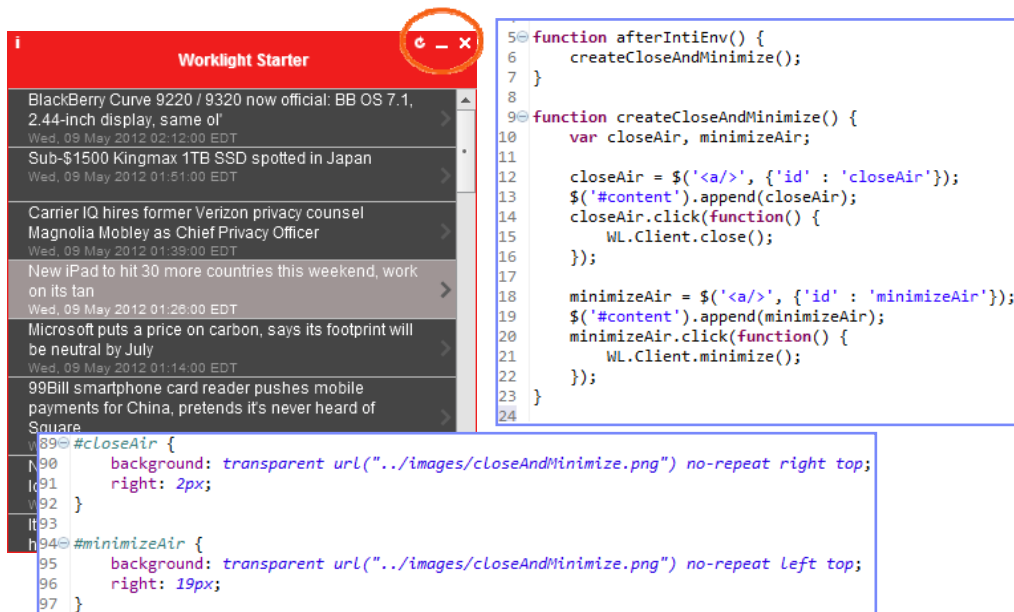


Environment-specific capabilities: Adobe AIR (1 of 2)

- Some useful Adobe Air APIs:
 - Minimize window: `window.nativeWindow.minimize();`
 - Maximize window: `window.nativeWindow.maximize();`
 - Restore window: `window.nativeWindow.restore();`
 - Close window: `window.nativeWindow.close();`

Environment-specific capabilities: Adobe AIR (1 of 2)

- Add minimize and close buttons to your app



The screenshot shows an Adobe AIR application window titled "Worklight Starter" with a red header bar. The window contains a list of news items. A red circle highlights the close, maximize, and minimize buttons in the top right corner. To the right, a code editor shows the JavaScript code for the "afterInitEnv" and "createCloseAndMinimize" functions. Below the window, a CSS snippet shows the styling for the close and minimize buttons.

```

50 function afterInitEnv() {
6     createCloseAndMinimize();
7 }
8
9 function createCloseAndMinimize() {
10     var closeAir, minimizeAir;
11
12     closeAir = $('<a/>', {'id' : 'closeAir'});
13     $('#content').append(closeAir);
14     closeAir.click(function() {
15         WL.Client.close();
16     });
17
18     minimizeAir = $('<a/>', {'id' : 'minimizeAir'});
19     $('#content').append(minimizeAir);
20     minimizeAir.click(function() {
21         WL.Client.minimize();
22     });
23 }
24

```

```

89 #closeAir {
90     background: transparent url("../images/closeAndMinimize.png") no-repeat right top;
91     right: 2px;
92 }
93
94 #minimizeAir {
95     background: transparent url("../images/closeAndMinimize.png") no-repeat left top;
96     right: 19px;
97 }

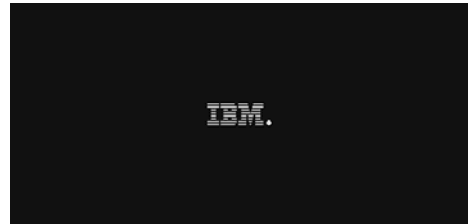
```

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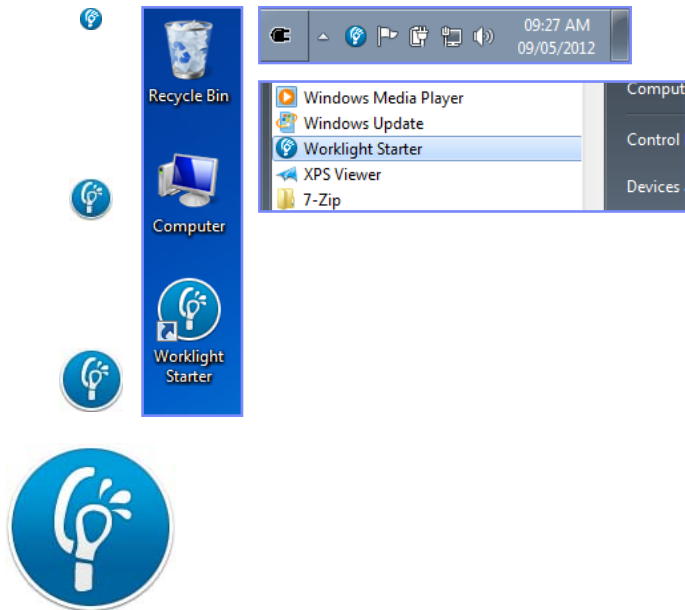
Environment-specific images: Windows Store apps

- logo.png
The logo image represents the square tile image of the app in the Start screen
150px * 150px
- smalllogo.png
The small logo is displayed with your app display name in search results that are returned on the Start screen
30px * 30px
- Splashscreen.png
The splash screen is displayed for a short time when the user opens the app.
620px * 300px
- Storelogo.png
The store logo is the image the Windows Store uses when it displays your app listing in search results and with the app description in the listing page
50px * 50px



Environment-specific images: Adobe Air

- icon.png
 - icon16x16.png
 - 16 px * 16px
 - Program menu icon
 - Tray icon
 - Minimum OS X desktop icon
 - icon32x32.png
 - 32px * 32px
 - Standard Windows desktop icon
 - Taskbar icon
 - Medium OS X desktop icon
 - icon48x48.png
 - 48px * 48px
 - Large Windows desktop icon
 - Large OS X desktop icon
 - Icon128x128.png
 - 128px * 128px
 - Maximum OS X desktop icon

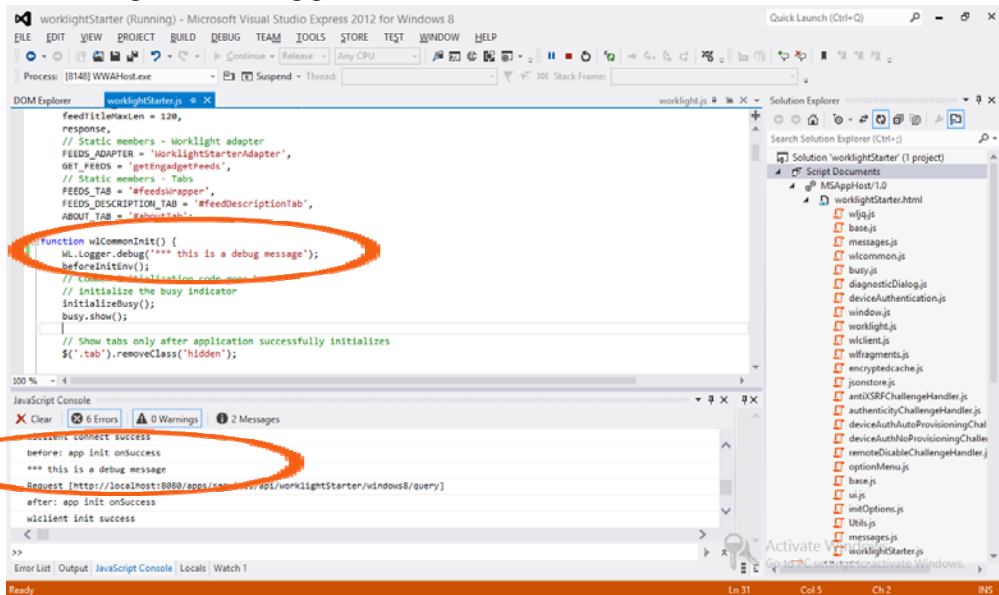


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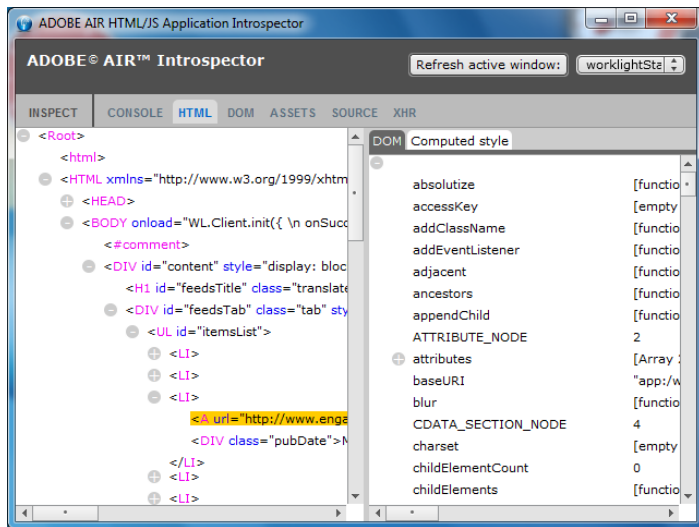
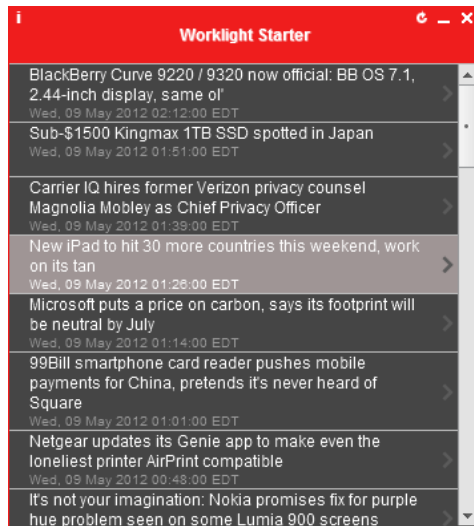
Debugging the Application: Windows Store apps

- Debug by using Microsoft Visual Studio Express 2012 for Windows 8
- Use Worklight WL.Logger API



Debugging the Application: Adobe Air

- Debug by using the Adobe Air Introspector
- Click **F12** to start a session

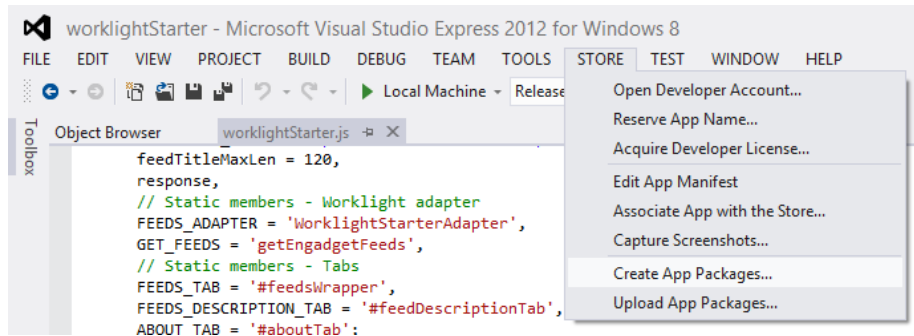


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Deployment: Windows Store apps

Use Microsoft Visual Studio Express 2012 for Windows 8 to create App Packages



Deployment: Adobe Air

- Use the Worklight Console to get the Adobe Air package.

The screenshot displays the IBM Worklight Console interface. At the top, there are tabs for 'Catalog', 'Push Notifications', and 'Active Users'. Below these, a blue bar contains the text 'Deploy application or adapter: Choose File No file chosen Submit'. The main section is titled 'Worklight Starter' and includes a 'Delete' link. On the left, there is a lightbulb icon. The main content area shows a list of applications and their configurations. The 'Adobe Air' entry is highlighted with a red box, indicating it is the selected application. The configuration for 'Adobe Air' shows 'Version 1.0' and an 'Install' link. Other applications listed include iPad, Android, Windows Phone, Vista, Dashboard, Facebook, iGoogle, Embedded, and Mobile Web, each with their respective versions and links to install or get descriptors.

Platform	Version	Status	Action	App Authentication	Device Authentication	User Authentication
iPad	Version 1.0	Active	Lock this version	Disabled	Enabled	None
Android	Version 1.0	Active	Lock this version	Disabled	Enabled	None
Windows Phone	Version 1.0	Active				
Vista	Version 1.0		Install			
Adobe Air	Version 1.0		Install			
Dashboard	Version 1.0		Install			
Facebook	Version 1.0		Get App URL			
iGoogle	Version 1.0		Get Descriptor			
Embedded	Version 1.0		Embed in Web Page			
Mobile Web	Version 1.0		Get App URL			

[Preview as Common Resources](#)

Exercise: Optimize Worklight Starter

- This exercise is based on the **WorklightStarter** application
- Optimize **Worklight Starter** for Windows store Apps:
 - Optimize design
 - Option menu
- Optimize the **Worklight Starter** for Air:
 - Optimize color scheme
 - Minimize & Close buttons

Exercise: Optimize the RSS Reader (1 of 2)

- Optimize for Windows store Apps
 - Add an Option menu With Feeds About and Reload buttons

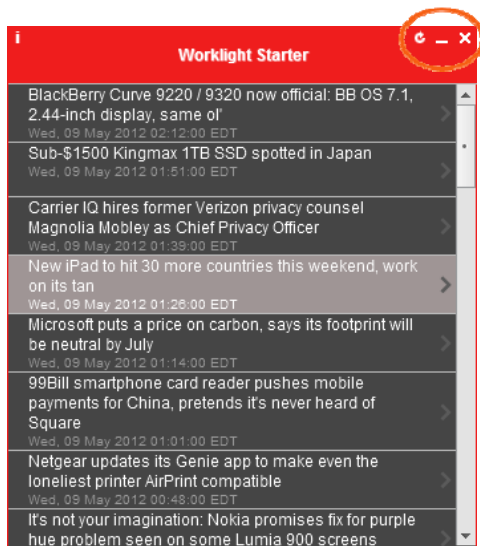
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Opera Mobile launches Unlimited Music service in Russia Mon, 19 Nov 2012 08:29:00 EDT	>
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Start button utilizes the same menu 'B' from Windows 8, has said 'tens of thousands' of copies



Exercise: Optimize the RSS Reader (2 of 2)

- Optimize for Air
 - Add Minimize & Close buttons to the Air environment



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