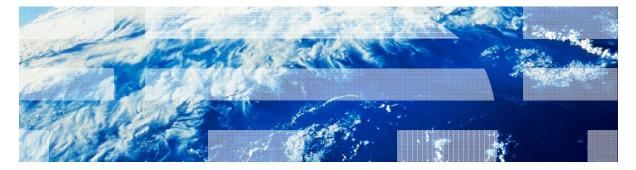


IBM Worklight V5.0.6 Getting Started

General information when developing desktop applications



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About IBM®

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



- 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

- 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

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'ti: SpaceX creator Elon Musk says Ariane 5 rocket has 'no chance' Mon, 19 Nov 2012 11:43:00 EDT	>
	Silckdeals' best in tech for November 19th: desktops, ASUS Transformer, and Panasonic Lumix DMC-GF3 Mon, 19 Nov 2012 11:33:00 EDT	>
	Samsung launches LTE edition of Galaxy Note 10.1 in Korea Mon, 19 Nov 2012 11:20:00 EDT	>
	BeatBots co-founder Marek Michalowski encourages the world to hack Keepon (video) Mon, 19 Nov 2012 11:00:00 EDT	>
	Huawei Ascend W1 makes an appearance in Blue and White Mon, 19 Nov 2012 10:41:00 EDT	>
	Self-declared hipster builds Macintosh Portable case mod, goes well with skinny jeans (video) Mon, 19 Nov 2012 10:22:00 EDT	>
	Windows 8 sales have been 'slow going.' Microsoft said to be blaming OEMs Mon, 19 Nov 2012 10.05.00 EDT	>
	Warner Archive on-demand disc service kicks off Blu-ray availability with Gypsy, Deathtrap	>
<pre>function afterInitEnv() {</pre>		>
<pre>WL.OptionsMenu.init(); WL.OptionsMenu.addItem()</pre>	<pre>('tab1', function() {selectTab('#feedsWrapper');}, Messages.tabFeed, {image: 'images/feed.png'});</pre>	>
WL.OptionsMenu.addItem(<pre>'tab2', function() {selectTab('#aboutTab');}, Messages.tabAbout, {image: 'images/about.png'});</pre>	>
WL.OptionsMenu.addItem(<pre>'tab3', function() {loadFeeds();}, Messages.reload, {image : 'images/reload.png'});</pre>	>
	Noka nere conectori venice nanovor (viceo) Mori, 19 Nov 2012 08:09:00 EDT	>
	Amazon Kindle celebrates five e-inked years Mon. 19 Nov 2012 07:46:00 EDT	>
	Nintendo's Will U gets gutted in the name of specs	>

Mon, 19 Nov 2012 07:26:00 EDT

Start button utility string even more '8' from Windows 8, has sold 'tens of thousands' of conjest

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About

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Environment-Specific Capabilities: Adobe AIR

- 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

Add minimize and close buttons to your app

Worklight Starter	<pre>50 function afterIntiEnv() { 6 createCloseAndMinimize(); 7 }</pre>
BlackBerry Curve 9220 / 9320 now official: BB OS 7.1, 2.44-inch display, same ol' Ved. 09 May 2012 02:12:00 EDT Sub-\$1500 Kingmax 1TB SSD spotted in Japan Wed. 09 May 2012 01:51:00 EDT Carrier IQ hires former Verizon privacy counsel Magnolia Mobley as Chief Privacy Officer Wed. 09 May 2012 01:30:00 EDT New iPad to hit 30 more countries this weekend, work on its tan Wed. 09 May 2012 01:26:00 EDT Microsoft puts a price on carbon, says its footprint will be neutral by July Wed. 09 May 2012 01:14:00 EDT 99Bill smartphone card reader pushes mobile payments for China, pretends its never heard of	<pre>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); 19 \$('#content').append(minimizeAir); 20 minimizeAir.click(function() { 21 WL.Client.minimize(); 22 }); 23 } 24</pre>
Source 89© #closeAir { 90 background: transparent url("/images/cl 91 right: 2px; 92 } 93 94© #minimizeAir { 95 background: transparent url("/images/cl 96 right: 19px; 97 }	.oseAndMinimize.png") no-repeat right top;



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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.



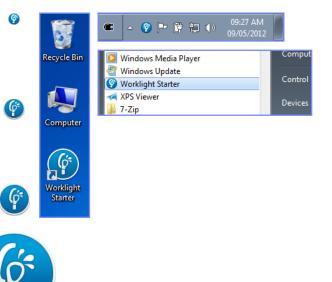






Environment-specific Images: Adobe Air

- 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

worklightStarter (Running) - Microsoft Visual Studio Express 2012 for Windows 8	Quick Launch (C	trl+Q) 🔎 – 5
EILE EDIT VIEW PROJECT BUILD DEBUG TEAM IOOLS STORE TEST WINDOW HELP		
🖸 🗢 💿 🗄 🎬 🔐 🎐 - 🤆 - 🗦 Continue - Release - 🛛 Any CPU 🎜 🖾 🛍 🖏 🗧 💷	• O 10 → 4 6 d 18 , 1 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	પ્રાથસ -
Process: [8148] WWAHost.exe • 🖻 💽 Suspend • Thread:	k Frame:	
DOM Explorer worklightStarter.js 🔹 🗶	worklight.js 🖲 🕷 🗶 👻 Solution Explorer	- ņ
feedTitleMaxLen = 120,	* 000 to) - # 🖸 🗇 /× 🟳
response, // Static members - Worklight adapter	Search Solution 8	Explorer (Ctrl+;)
FEEDS_ADAPTER = 'WorklightStarterAdapter',	Solution 'w	orklightStarter' (1 project)
GET_FEEDS = 'getEngadgetFeeds', // Static members - Tabs	4 🗗 Script D	
FEEDS TAB = '#feedsWrapper'.	⊿ g [®] MSA	
FEEDS_DESCRIPTION_TAB = '#feedDescriptionTab',		vorklightStarter.html
ABOUT_TAB = 'TaboutTab':		wiją.js base.js
offunction wlCommonInit() (messages.js
WL.Logger.debug('*** this is a debug message');		wicommon.js
beforeInitEnv();	2	busy.js
<pre>// initialize the busy indicator</pre>		diagnosticDialog.js
initializeBusy();		deviceAuthentication.js
busy.show();		vindow.js vorklight.js
<pre>// Show tabs only after application successfully initializes</pre>		workignt.js
<pre>\$('.tab').removeClass('hidden');</pre>		wifragments.is
		encryptedcache.js
00 % - 4		jsonstore.js
avaScript Console		antiXSRFChallengeHandler.js
X Clear 🚯 6 Errors 🗛 0 Warnings 🚯 2 Messages		authenticityChallengeHandler.js
Contract Success		deviceAuthAutoProvisioningCh deviceAuthNoProvisioningChall
before: app init onSuccess		remoteDisableChallengeHandle
*** this is a debug message		optionMenu.is
Request [http://localhost:8880/apps/sscience/api/worklightStarter/windows8/query]		base.js
after: app init onSuccess		ui.js
wichient init success		initOptions.js
<		J Utils.js J messages.js
		worklightStarter.is
Error List Output JavaScript Console Locals Watch 1		igs to activate Windows.
eady	Ln 31 Col 5	Ch 2

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Debugging the Application: Adobe Air

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

i ¢ _ × Worklight Starter	ADOBE AIR HTML/JS Application Introspector	
BlackBerry Curve 9220 / 9320 now official; BB OS 7.1, 2.44-inch display, same ol' Wed, 09 May 2012 02:12:00 EDT	ADOBE® AIR™ Introspector Refresh active window:	worklightSta 🛟
Sub-\$1500 Kingmax 1TB SSD spotted in Japan Wed, 09 May 2012 01:51:00 EDT	<pre><root></root></pre>	
Carrier IQ hires former Verizon privacy counsel Magnolia Mobley as Chief Privacy Officer	<pre> <hr/> <hr> <hr/> <hr/></hr></pre>	[functio • [empty [functio
New iPad to hit 30 more countries this weekend, work on its tan Wed, 09 May 2012 01:26:00 EDT	<pre><#comment> addEventListener </pre> <div appendchild="" class="tab" dass="translate</pre></td><td>[functio
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Deployment: Windows Store Apps

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

worklightStarter - Microsoft Visual Studio Express 2012	for Windows 8
FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS	STORE TEST WINDOW HELP
💿 🗸 💿 📑 🚔 🗳 🏷 - 🖓 - 🕨 🕨 Local Machine - Relea	Ge Open Developer Account
Object Browser worklightStarter.js ⇒ × g feedTitleMaxLen = 120,	Reserve App Name
feedTitleMaxLen = 120,	Acquire Developer License
response,	Edit App Manifest
// Static members - Worklight adapter	Associate App with the Store
<pre>FEEDS_ADAPTER = 'WorklightStarterAdapter', GET_FEEDS = 'getEngadgetFeeds',</pre>	Capture Screenshots
// Static members - Tabs	Create App Packages
<pre>FEEDS_TAB = '#feedsWrapper', FEEDS_DESCRIPTION_TAB = '#feedDescriptionTab'</pre>	, Upload App Packages
ABOUT TAB = '#aboutTab':	



Deployment: Adobe Air

Use the Worklight Console to get the Adobe Air package.

Catalog		Push Notifications	s Active Users					
Deploy application	on or ac	apter: Choose File	No file chosen	Submit				
Worklight Starte	er							× Delete
6		eves an RSS feed from updated at: 2012-06-0						
	× @	D 🔲 iPad	Version 1.0 😐 Active	~	App Authentication:	O Disabled	~	
			Lock this version 💿		Device Authentication: User Authentication:	Enabled None		
	× @	🖻 🚔 Android	Version 1.0 😐 Active	*	App Authentication:	0 Disabled	~	
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					User Authentication:	None		
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	× a	🖻 🕑 Vista	Version 1.0 Install					
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	× a	Dashboard	Version 1.0 Install					
	× @	D F Facebook	Version 1.0 Get App URL					
	× a	D 🔀 iGoogle	Version 1.0 Get Descriptor					
	× a	D 💽 Embedded	Version 1.0 Embed in Web	Page				
	× a	🖻 🔤 Mobile Web	Version 1.0 Get App URL					
	Q	Preview as Comm	on Resources					



Exercise: Optimize Worklight Starter

- This exercise is based on the WorklightStarter application
- Optimize Worklight Starter for <u>Windows store Apps</u>:
 - Optimize design
 - Option Menu
- Optimize the Worklight Starter for <u>Air</u>:
 - Optimize color scheme
 - Minimize & Close buttons



Exercise: Optimize the RSS Reader

Optimize for Windows store Apps

- Add an Option menu With Feeds About and Reload buttons

Worklight Starter

Engadget's holiday gift guide 2012: gaming Mon, 19 Nov 2012 12:00:00 EDT	>
CE-Oh no he didn'ti: SpaceX creator Elon Musk says Ariane 5 rocket has 'no chance' Mon, 19 Nov 2012 11:43.00 EDT	>
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Intel CEO Paul Otellini to step down in May, leaves a legacy of x86 dominance Mon, 19 Nov 2012 09:11:00 EDT	>
Elgato EyeTV Mobile ships to the US, brings Dyle live TV tuning to data cap-dodging iOS users Mon, 19 Nov 2012 09:00.00 EDT	>
Samsung ATIV 5 for Vodafone UK goes up for pre-order at Phones4U with a December launch Mon, 19 Nov 2012 08:40:00 EDT	>
Opera Mobile launches Unlimited Music service in Russia Mon, 19 Nov 2012 08:29:00 EDT	>
Nokia Here collection vehicle hands-on (video) Mon, 19 Nov 2012 08:09:00 EDT	>
Amazon Kindle celebrates five e-inked years Mon, 19 Nov 2012 07:46:00 EDT	>
Nintendo's Wii U gets gutted in the name of specs Mon, 19 Nov 2012 07:26:00 EDT	>
Start hutton utility strine even more 181 from Windows 8. has cold 'tens of thousands' of conies	





Exercise: Optimize the RSS Reader

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

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i Worklight Starter	- ×
BlackBerry Curve 9220 / 9320 now official: BB OS 7.1, 2.44-inch display, same ol' Wed, 09 May 2012 02:12:00 EDT	
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It's not your imagination: Nokia promises fix for purple hue problem seen on some Lumia 900 screens	> -



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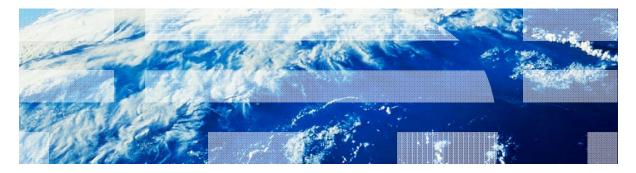
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