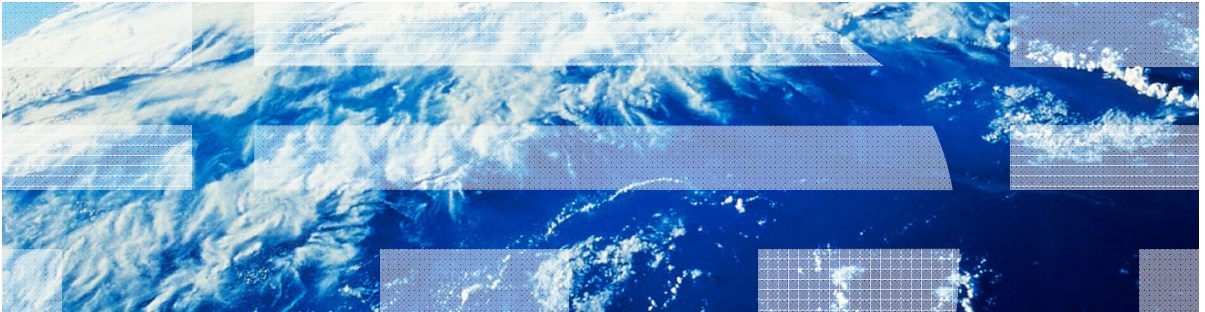


IBM Worklight V5.0.5 Getting Started

Module 45.1 – Worklight App as a Container For Server Generated Pages



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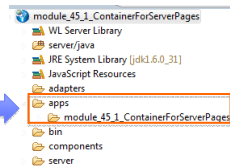
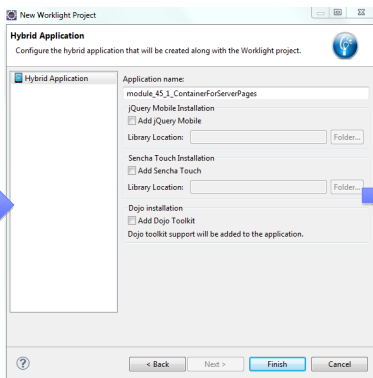
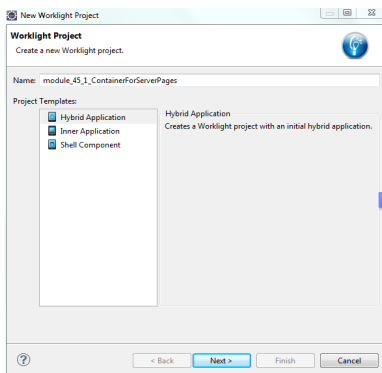
- Creating Worklight Project and Environments
- Remote Loading – Android
- Remote Loading – iOS

Migrating Applications to Worklight

- By using mobile web technology, you can deploy applications to the widest variety of devices.
- The presence of application stores (for example: Apple iTunes and Google Play) added a dimension where the hosting and marketing of these applications made broader-reaching applications less relevant.
- IBM Worklight® provides the solution to build cross-platform applications that can be distributed through the application stores by using the hybrid application programming model.
- In the hybrid model, developers typically package the application HTML, CSS, and JavaScript code as part of the application that is deployed to the application store.
- In this module, you see the remote loading of dynamic content capability, where the HTML, CSS, and JavaScript code is hosted externally from the natively packaged hybrid.

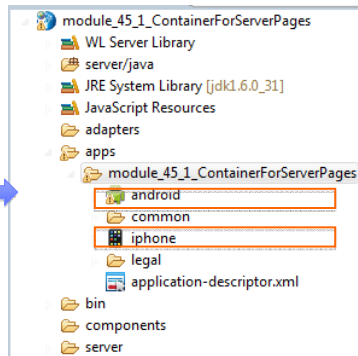
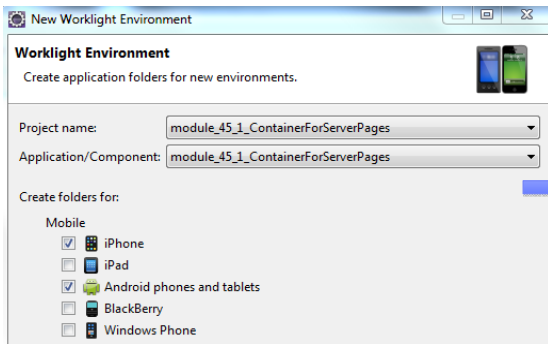
Creating Worklight Applications

- A project and applications are created by using the Worklight Project wizard.
- A project might host multiple applications.
 - However, in this module, you use only one app: `module_45_1_ContainerForServerPages`



Worklight Environments

- IBM Worklight provides a model for organizing the application project structure for each targeted environment (for example, Android, iPhone, iPad).
- Because the target environments are known, both the iPhone and Android environments are selected as part of the Worklight Environment wizard.

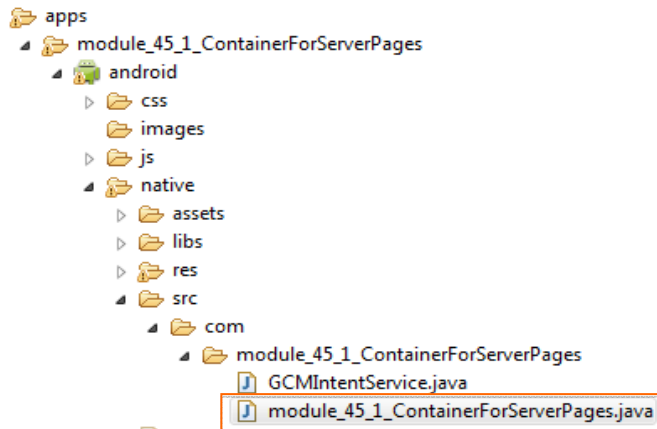


Agenda

- Creating Worklight Project and Environments
- Remote Loading – Android
- Remote Loading – iOS


Worklight Android Environment

- When the Worklight Environment wizard process completes, template files are generated and included in the project.
- Open the native Android component of your application.



Worklight Android Environment

- Edit the `super.loadURL` target to point to `"http://m.ibm.com"`.



```
package com.module_45_1_ContainerForServerPages;

import android.os.Bundle;

public class module_45_1_ContainerForServerPages extends WLDroidGap {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        //DeviceAuthManager.getInstance().setProvisioningDelegate(<Use default
        super.loadUrl(getWebMainFilePath());
    }
}

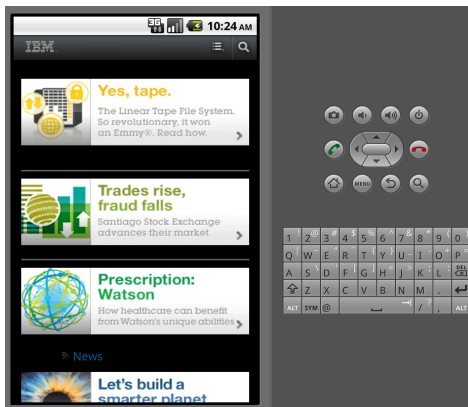
package com.module_45_1_ContainerForServerPages;

import android.os.Bundle;

public class module_45_1_ContainerForServerPages extends WLDroidGap {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        //DeviceAuthManager.getInstance().setProvisioningDelegate(<Us
        super.loadUrl("http://m.ibm.com");
    }
}
```

Running your application on the Android Emulator

- Build the Android environment, and then deploy the application.
 - Right-click the generated Android project and select **Run As > Android Application**.
- You can see that <http://m.ibm.com> is rendered in your Android emulator.



Agenda

- Creating Worklight Project and Environments
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- Remote Loading – iOS

Worklight iOS Environment

- Ensure that the `OpenAllWhitelistURLsInWebView` setting is set to **true** in the `Cordova.plist` file
 - If this setting is not set to **true**, non-local HTML files are loaded in Safari instead of in the `WebView` of the application.
- Cordova does not allow the specification of a remote URL on startup: you must tell the `WebView` to load your remote URL.
- Override this method in your application delegate class so that it looks like the next example (module451ContainerForServerPages.m in `iphone/native/Classes`):

```
- (BOOL)application:(UIApplication *)application didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
    BOOL ret = [super application:application didFinishLaunchingWithOptions:launchOptions];
    [[NSNotificationCenter defaultCenter] addObserver:self selector:@selector(didFinishWLNativeInit:) name:@"didFinishWLNativeInit" object:nil];
    return ret;
}

// Use this function to refer to webview
-(void) didFinishWLNativeInit:(NSNotification *)notification {
    NSString* remoteURLStr = @"http://m.ibm.com";
    NSURL* remoteURL = [NSURL URLWithString:remoteURLStr];
    NSURLRequest* request = [NSURLRequest requestWithURL:remoteURL];
    [self.viewController.webView loadRequest:request];
}
```

Remote Load iOS in Action

- Deploy the application to your iOS emulator:
 - Right-click the IOS environment, and select **Run As > Xcode project**.



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