

Building Portlets With ColdFusion 9

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Agenda

- What are Portals & Portlets?
- Standards (JSR-168, JSR-286, WSRP)
- Writing Portlets in ColdFusion
- Deploying ColdFusion Portlets
- Web Services for Remote Portlets

Terminology

- Portal Site
- Portal Server
- Portal Page
- Portlet
- Window States (Normal, Minimized, Maximized)
- Portlet Modes (VIEW, EDIT, HELP)

Java Portlet Standards

- JSR-168 - Java Portlet 1.0 API
- JSR-286 - Java Portlet 2.0 API
 - Events
 - Filters
 - Caching
 - Resource Serving

ColdFusion Portlet API

- Similar to JSR-168/JSR-286 Portlet APIs
- Your Portlet CFC Should Extend `CFIDE.portlets.ColdFusionPortlet`
- At a minimum it should implement `doView(renderRequest, renderResponse)`
 - `renderRequest` is a `javax.portlet.RenderRequest` java object
 - `renderResponse` a `javax.portlet.RenderResponse` java object
- Browse to `/CFIDE/portlets/ColdFusionPortlet.cfc` to view docs

Hello World ColdFusion Portlet

```
<cfcomponent extends="CFIDE.portlets.ColdFusionPortlet">

    <cffunction name="doView" returnType="void" output="true">
        <cfargument name="renderRequest" type="any" required="true">
        <cfargument name="renderResponse" type="any" required="true">
        <h1>Hello ColdFusion</h1>
        <cfoutput>
            <p>Today is #DateFormat(Now(), "long")#.</p>
            <p>Rendered at: #TimeFormat(Now(), "h:mm:ss tt")#</p>
        </cfoutput>
    </cffunction>

</cfcomponent>
```

Deploy ColdFusion on JBoss Portal Server

- Download JBoss Portal Server Bundled with JBoss Application Server (AS)
- Extract
- Start server using bin/run.sh (Linux/Mac) or bin/run.bat (Windows)
- Visit <http://localhost:8080/portal/>
- Login using admin:admin
- Stop JBoss
- Run ColdFusion Installer, create a WAR file
- Extract the WAR file to {jboss}/server/default/deploy/cfusion.war/
- Start JBoss
- Visit <http://localhost:8080/cfusion/CFIDE/administrator/>
- Enable J2EE Sessions

Deploying Portlets

- Configured in /WEB-INF/portlet.xml of your cfusion instance.
- Specify Full Package Name of your CFC in the cfcName init param.

Portlet URLs

- Parameters Similar to URL Variables
- Create links using createRenderURL()
- Use request.portlet.parameters struct or renderRequest.getParameter("name") to retrieve parameter values.
- Forms should use method=post
- Form action should be generated using createActionURL()
- Form is processed in the portlet in the processAction() method.

Basic ColdFusion Portlet API

- init(portletConfig)
- render(renderRequest, renderResponse)

- doView(renderRequest, renderResponse)
- doHelp(renderRequest, renderResponse)
- doEdit(renderRequest, renderResponse)
- processAction(actionRequest, actionResponse)
- getWindowState()
- getPortletMode()
- createActionURL(parameters, portletMode, windowState, secure)
- createRenderURL(parameters, portletMode, windowState, secure)
- destroy()

WSRP (Web Services for Remote Portlets)

- SOAP Web Services for Portlets
- ColdFusion 9 is a WSRP 1.0 Producer
- Portlets can use most features in JSR-168
- WSDL: /WSRPProducer?wsdl
- Define portlets in /WEB-INF/cf-wsrp-portlet.xml