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# Kepler WebView Documentation

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## INSTALL

### Prerequisites

- ant 1.82 or newer
- git
- java 8 or newer
- maven 3.03 or newer
- svn 1.6 or newer

First, install Kepler development trunk from svn:

```
mkdir kepler.modules
cd kepler.modules
svn co https://code.kepler-project.org/code/kepler/trunk/modules/build-area
cd build-area
ant change-to -Dsuite=reporting
ant compile
```

WebView is part of the *reporting* suite, so if you install this suite, you can run WebView. You can also add WebView to another suite by adding the following to modules.txt:

```
web-view https://github.com/Kepler-Project/web-view.git
```



## CONFIGURATION

The configuration file is in `web-view/resources/configurations/configuration.xml`. This section describes the configuration parameters in this file.

### 2.1 Configuration Parameters

#### 2.1.1 daemon

If `true`, then Kepler does not launch GUI editor but waits for REST and websocket requests. Otherwise (`false`), Kepler starts normally.

#### 2.1.2 port

Port to listen on for requests.

#### 2.1.3 startServer

`true` or `false`: if `WebView` should be started.

### 2.2 Default config file

```
1 <?xml version="1.0"?>
2 <config>
3
4   <server>
5     <startServer>false</startServer>
6     <daemon>false</daemon>
7     <port>9122</port>
8     <rootDir></rootDir>
9     <logPath></logPath>
10    <instances>1</instances>
11    <appendIndexHtml>true</appendIndexHtml>
12    <workerThreads>20</workerThreads>
13    <allowWorkflowDownloads>false</allowWorkflowDownloads>
14    <metadataFile></metadataFile>
15
```

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```
16 <!-- session timeout if not accessed in milliseconds -->
17 <sessionTimeout>86400000</sessionTimeout>
18
19 <!-- workflow execution timeout -->
20 <workflowTimeout>600000</workflowTimeout>
21
22 <apps>
23   <app>
24     <name>echo</name>
25     <class>org.kepler.webview.server.app.Echo</class>
26   </app>
27   <app>
28     <name>GetURL</name>
29     <class>org.kepler.webview.server.app.GetURL</class>
30     <!--
31     <allowed>
32       <site>data.neonscience.org</site>
33     </allowed>
34     -->
35   </app>
36   <app>
37     <name>CreateRO</name>
38     <class>org.kepler.webview.server.app.ro.CreateRO</class>
39   </app>
40 </apps>
41
42 <proxies>
43   <!--
44   <proxy>
45     <path>/path</path>
46     <dest>wss://host:port</dest>
47     <apikey>12345</apikey>
48   </proxy>
49   -->
50 </proxies>
51
52 <ssl>
53   <enable>false</enable>
54   <port>8443</port>
55   <key></key>
56   <cert></cert>
57
58   <redirectHttp>
59     <enable>false</enable>
60     <status>302</status>
61     <hostname>localhost</hostname>
62     <port>8443</port>
63   </redirectHttp>
64 </ssl>
65
66 <auth>
67   <type>none</type>
```

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```

68     <!--<type>simple</type>-->
69     <!--<type>drupal</type>-->
70
71     <entity>
72         <user>username</user>
73         <password>password</password>
74         <group>group name</group>
75     </entity>
76
77     <!--
78     <drupal>
79         <host>drupal host</host>
80         <service>path name of service</service>
81         <role>user role</role>
82         <groupField>name of field containing group name</groupField>
83         <fullNameField>name of field containing user's full name</fullNameField>
84     </drupal>
85     -->
86 </auth>
87
88 <cors>
89     <enable>false</enable>
90     <allowOrigin>*</allowOrigin>
91 </cors>
92
93 <!-- set of directories that can be indexed. -->
94 <directoryIndex>
95     <!--<dir></dir>-->
96     <!--<dir></dir>-->
97     <!--<dir></dir>-->
98 </directoryIndex>
99
100 <tableOfContents>
101     <enable>true</enable>
102     <pathRegex>^(?:/wf){0,1}/*$</pathRegex>
103     <!-- TODO <openWorkflows>true</openWorkflows> -->
104     <!-- TODO <recentWorkflows>true</recentWorkflows> -->
105     <!-- TODO <demoWorkflows>true</demoWorkflows> -->
106 </tableOfContents>
107
108 <preload>
109     <!--<model>Foo.kar</model>-->
110 </preload>
111
112 <roHub>
113     <authToken></authToken>
114     <uri>http://sandbox.rohub.org/rodl/ROs/</uri>
115 </roHub>
116
117 <cluster>
118     <type>none</type>
119     <!--<type>hazelcast</type>-->

```

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```
120         <deployInKubernetes>false</deployInKubernetes>
121         <hazelcastDiscoveryK8sDnsService></hazelcastDiscoveryK8sDnsService>
122     </cluster>
123 </server>
124
125 </config>
```

## RUNNING

WebView can be run from the command line, e.g.:

```
./kepler.sh -wvport 10151 -wvd
```

The command line arguments are:

-wvport	Web-view server port number. (default = 9122)
-wvroot	Web-view server root directory. (default = web-view/resources/html)
-wvnum	Number of web-view server instances. (default = 1)
-wv	Start web-view server.
-wvd	Run web-view server <b>as</b> daemon.



