

How to browse iPortal maps by iClient for leaflet 9D API

SuperMap iClient 9D for JavaScript provides the API to browse maps in SuperMap iPortal to help you quickly create a iPortal map on your own Web page.

The following provide two examples, which helps you understand how to use iClient for leaflet 9D to browse the iPortal maps.

- Example 1: Browse a public iPortal map
- Example 2: Browse an iPortal map which requires access permission

Example 1: Browse a public iPortal map

In **Getting started with iClient for leaflet 9D**, we've learnt how to use SuperMap iClient for leaflet 9D to build a simple map application to access SuperMap iServer maps. Here we introduce how to browse a public map in SuperMap iPortal.

Step1: Download and unzip library file

Access any of the following open source community to get the SuperMap iClient for Javascript 9D sourcecode:

1. GitHub: <https://github.com/SuperMap/iClient9>
2. Gitee: <https://git.oschina.net/isupermap/iClient9>

Step2: Create an HTML page

Create a new folder in a disk and named as "MyFirst"; In the "MyFirst" folder, create a "iPortal_MapViewer.html" page with a text editor (such as NotePad++) . And save the html to UTF-8 encoding. Add the following codes to it:

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset="UTF-8">
5      <title>SuperMap iPortal
6  Map</title>
7      <link rel="stylesheet"
8  href="libs/leaflet/leaflet.css">
9  </head>
10 <body style=" margin: 0;overflow: hidden;background:
11 #fff;width: 100%;height:95%;position: absolute;top: 0;">
12 <label>Input iPortal address:<input id="urlInput"
13 type="text" placeholder="http://<service>:<port>/iportal"/></label>
14 <br/>
15 <label>Input MapID:<input id="mapidInput"
16 type="text" placeholder="1"/></label>
17 <br/>
18 <button onclick="selectMap()">Open map</button>
19 <div id="map" style="margin:0 auto;width:
20 100%;height: 100%"></div>
21 <script type="text/javascript" src="libs/leaflet/leaflet.js"></script>
22 <script type="text/javascript" src="dist/iclient9-leaflet.min.js"></script>
23 <script>
24 function selectMap(){
25 var mapId = document.getElementById("mapidInput").value;
26 var mapUrl = document.getElementById("urlInput").value;
27 if(mapId && mapUrl){
28     L.supermap.webmap(mapId, {server: mapUrl});
29 }else{
30 alert("Please input the iPortal map address and map ID");
31 }
32 }
33 </script>
34 </body>
35 </html>

```

Step 3: Reference resource file

Copy the libs and theme folders to the "MyFirst" folder. You can also put them to other places by modify relative path of the reference script.

Step 4: Publish the example service

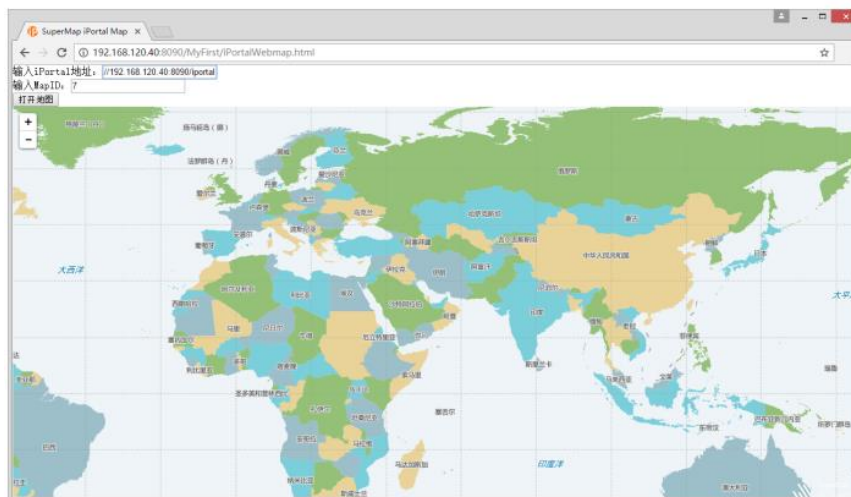
Copy the "MyFirst" folder to the directory of %SuperMap

iPortal_HOME%/webapps to publish the example. Start SuperMap iPortal and input:
http://192.168.120.40:8090/MyFirst/iPortal_MapViewer.html to access it.

You can also copy the "MyFirst" folder to other middlewares (such as Tomcat), or SuperMap iServers or other iPortals to publish it. Start the corresponding middleware and input: http://ip:port/MyFirst/iPortal_MapViewer.html ("ip" and "port" is the ip and port number of the corresponding middleware) to access it. No need to reboot the middleware service if it's already started.

Step 5: Browse an iPortal Map

Input the iPortal address (It needs to be the same with IP in the address toolbox, that is, if the address bar is IP, here it should be IP; If the address bar is localhost, here it should be localhost) For example, http://192.168.120.40:8090/iportal, then input map id. For example: 7, and click **Open Map** button to browse the iPortal public map.



Example 2: Browse an iPortal map which requires access permission

The maps in SuperMap iPortal have the access permissions. For the non-public map, only the users who have the access permission can access it after logging iPortal. The following is a simple example, you need to log in to iPortal first. After logging successfully, input the map id and click the **Open Map** button, then you can browse the maps which have access control in iPortal.

Step 1: Create an HTML page

Based on **Example 1**, create a "iPortalSecurity.html" html page in the "MyFirst" folder with a text editor (such as NotePad ++). And save the html to UTF-8 encoding. Add the following codes:

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="UTF-8">
5   <title>demo</title>
6   <link rel="stylesheet" href="libs/leaflet/leaflet.css">
7   <script type="text/javascript" src="libs/leaflet/leaflet.js"></script>
8   <script type="text/javascript" src="dist/iclient9-leaflet.min.js"></script>
9   <style>
10     .form-group,input {
11       width: 360px;
12     }
13   </style>
14 </head>
15 <body style="margin: 0;overflow: auto;background: #fff;width: 100%;height:100%;position: absolute;top: 0;">
16 <div class="container">
17   <div class="page-header">
18     <h4></h4>
19   </div>
20   <div class="row">
21     <table class="table table-bordered col-md-6">
22       <thead>
23       </thead>
24       <tbody>
25         <!--login-->
26         <tr>
27           <td>
28             <div class="col-md-10 col-md-offset-1">
29               <form class="form-horizontal">
30                 <fieldset>
31                   <div class="form-group">
32                     <label for="loginUrl_iportal" class="col-md-2 control-label">iPortal service address:</label>
33                     <div class="col-md-8">
34                       <input type="text" class="form-control" id="loginUrl_iportal"
35                         placeholder="service domain name/IP+port">
36                     </div>
37                   </div>
38                   <div class="form-group">
39                     <label for="username_iportal" class="col-md-2 control-label">User name</label>
40                     <div class="col-md-8">
41                       <input type="text" class="form-control" id="username_login">
42                     </div>
43                   </div>
44                   <div class="form-group">
45                     <label for="password_iportal" class="col-md-2 control-label">Password</label>
46                     <div class="col-md-8">
47                       <input type="password" class="form-control" id="password_login">
48                     </div>
49                   </div>
50                   <div class="form-group">
51                     <div class="col-md-12 text-center">
52                       <button type="button" class="btn btn-success" onclick="loginPortal()">Sign in</button>
53                     </div>
54                   </div>
55                 </fieldset>
56               </form>
57             </div>
58             <div class="col-md-8">
59               <input type="text" id="MapId">
60             </div>
61           </td>
62           <td>
63             <button type="button" onclick="initMap()" title="Please click Open Map after logging successfully">Open Map</button>
64           </td>
65         </tr>
66       </tbody>
67     </table>
68   </div>
69   <div class="map">
70     <div id="map" style="height:600px;"></div>
71   </div>
72 </script>
73 /*login*/
74 function loginPortal() {
75   var loginUrl = document.getElementById("loginUrl_iportal").value;
76   var userName = document.getElementById('username_login').value;
77   var password = document.getElementById('password_login').value;
78   if (!checkUrl(loginUrl))
79   {
80     return;
81   }
82   SuperMap.SecurityManager.loginiPortal(loginUrl, userName, password).then(function (result) {
83     if(result.succeed)
84     {
85       window.alert("Login successful")
86     }
87   });
88 }
89 /*login end*/
90 /*Open map*/
91 function initMap() {
92   var mapUrl = document.getElementById("loginUrl_iportal").value;
93   var mapId = document.getElementById("MapId").value;
94   if(mapId && mapUrl){
95     L.supermap.webmap(mapId, {server: mapUrl});
96   }else{
97     alert("Please log in first,then input map ID and click Open Map to retry");
98   }
99 }
100 }
101 function checkUrl(url)
102 {
103   if (url
104   === "") {
105     alert("Please input URL");
106     return false;
107   }
108   return true;
109 }
110 </script>
111 </body>
112 </html>

```

Step 2: Publish the example service

In **Example 1**, we have already referred the resource file in the "MyFirst" folder, and copied the "MyFirst" folder to the directory of %SuperMap iPortal_HOME%/webapps.

If you publish the login example by copying the "MyFirst" folder to other middleware (for example, the Tomcat) or SuperMap iServer , or other iPortal, it occurs cross domain problem. And you need to configure as follows to solve this problem.

In the iPortal where the map you want to access locates, find the iportal.xml file in %SuperMap iPortal_HOME%/webapps/iportal/WEB-INF, and configure the

<httpHeaderSetting> node as follows:

```

1 <httpHeaderSetting>
2   <accessControlAllowOrigins>
3     <string>http://192.168.120.40:8080/</string>
4   </accessControlAllowOrigins>
5   <defaultAccessControlAllowOrigin>*</defaultAccessControlAllowOrigin>
6 </httpHeaderSetting>

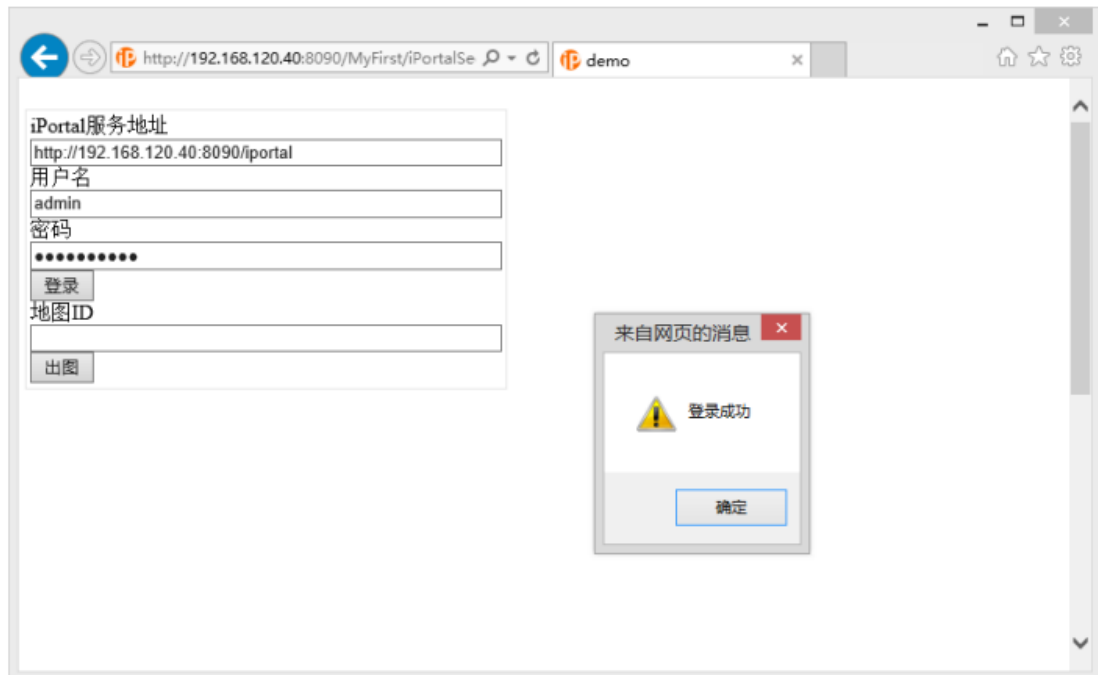
```

- <accessControlAllowOrigins>: Set the allowed domain. For example, the example to login iPortal is published by Tomcat, and the address is http://192.168.120.40:8080. You need to replace the default "http://ip:port" to "http://192.168.120.40:8080". Indicate the resources can be accessed by the "http://192.168.120.40:8080" request cross domain, multiple addresses are separated by English commas.
- <defaultAccessControlAllowOrigin>: The default domain. "*" represents all domains, but they can not send the cookies information (iPortal login

info is saved in cookies). At that time, it needs to configure the
<accessControlAllowOrigins> node, and specify the allowed domain.

Step 3: Log in to iPortal

Start SuperMap iPortal (If it is deploy on other middleware, you need to start the middleware). Input <http://192.168.120.40:8090/MyFirst/iPortalSecurity.html> (If it is other middleware, it should be the ip+port). Then input the iPortal address (It should be the same with the IP in address bar, namely, if the address bar is IP, here it should be the IP; if the address bar is localhost, here it should be localhost). For example, <http://192.168.120.40:8090/iportal>, input the iPortal user account and password. Click the login button, it will prompt "Login successfully!" As shown in the figure below:



Step 4: Browse an iPortal Map which requires access permission

After logging in successfully, input map ID, click Open Map, then you can view the map which requires access permission. As shown in the figure below:

