

SuperMap iClient for JavaScript Getting Started —Leaflet

SuperMap Software Co., Ltd.

Contents

• Publish GIS data through the internet as a service and browse the service at the client side

Note: "SuperMap iClient for JavaScript" is abbreviated as "JS" in the course



System Target

Publish a web system
 – Functions: Browse a map









Step 1: Prepare GIS Data

- Prepare GIS data with SuperMap iDesktop
 - Map: World



Note: Sample data of iServer-- China.smwu is used in this course



Step 2: Create iServer Service

• Contents

• A map service needs to be published to realize the map browsing function

> **Determine service type**

Start server

Run startup.bat under the bin folder of iServer directory

- Tool : Webmanager
- Publish the service in a facet way

Create iServer service



Step 2: Create iServer Service

- Start iServer
 - Method 1: Run startup.bat under the bin folder
 - Method 2: Start > Programs > SuperMap > SuperMap iServer > Start iServer Service

🕌 iServer D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip 11-Jan-2018 11:32:01.876 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDescriptor Deploying configuration descriptor [D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip\conf\Catalina\localhost\RealspaceSample.x 11-Jan-2018 11:32:01.892 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDescriptor Deployment of configuration descriptor [D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip\conf\Catalina\localhost\RealspaceSamp 1e.xml] has finished in [16] ms 11-Jan-2018 11:32:01.892 信息 [localhost-startStop-1] org. apache. catalina. startup. HostConfig. deployDescriptor Deploying configuration descriptor [D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip\conf\Catalina\localhost\SuperMapRealspac .xml 11-Jan-2018 11:32:01.892 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDescriptor Deployment of configuration descriptor [D:\SuperMap\iServer\supermap iserver-9.0.1-win64-zip\conf\Catalina\localhost\SuperMapReal bi configuration description for the paper map (1997) and the paper and the parts and 11-Jan-2018 11:32:12.358 信息 [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scar ned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time. 11-Jan-2018 11:32:39.341 信息 [localhost-startStop-1] org. apache. catalina. startup. HostConfig. deployDirectory Deployment of web application directory [D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip\webapps\iserver] has finished in [37 449] ms 11-Jan-2018 11:32:39.341 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying w eb application directory [D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip\webapps\ROOT] 11-Jan-2018 11:32:39.356 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [D:\SuperMap\iServer\supermap-iserver-9.0.1-win64-zip\webapps\ROOT] has finished in [15] m |11-Jan-2018 11:32:39.387 信息 [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8090" 11-Jan-2018 11:32:39.387 信息 [main] org.apache.catalina.startup.Catalina.start Server startup in 38381 ms



Step 2: Create iServer Service

http://localhost:8090/iserver/manager/

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Step 2: Test iServer Service

- Open Web browser
 - Map service address: http://localhost:8090/iserver/services/map-China/rest/maps/China





Step 3: Develop Web System

- Development Tool—SuperMap iClient
 - Libraries for the client GIS development tool
 - Acquire iServer services
 - Development tool for Web systems
- SuperMap iClient Location
 - [iServer installation directory]/iClient directory
- This example employes SuperMap iClient for JavaScript
 - SuperMap iClient for JavaScript product package
 - [iServer installation directory]/iclient/forJavaScript



Step 3: Copy Script Library Files

- Create the GettingStarted folder
- Copy script library files to the new folder
 - dist folder Core library files for development frameworks
 - libs folder Third-party technology libraries (under web folder)





Step 3: Create an HMTL Page

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" > <title>SuperMap iClient for JavaScript</title> </head>

<body >

</body> </html>



Step 3: Add Script Library Reference

<html>

<head>

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" >
<title>SuperMap iClient for JavaScript</title>
<script src="dist/include-leaflet.js"></script>
</head>
<body>
</body>
```

</html>



Step 3: Add DIV for Map Control

<html>

.

<body onload=onPageLoad()>

<div id="map" style="width:800px;height:500px;">

</div></body></html>



Step 3: Create map object and set properties such as center, scale, etc.

<head>

<script type="text/javascript">
 var map,layer,
 // Set GIS service address for browsing
 url = "http://localhost:8090/iserver/services/map-China/rest/maps/China";
 function onPageLoad() {
 // Cerate map object
 }
}

map=L.map("mapDiv",{center:[0,0],maxZoom:18,zoom:2,crs:L.CRS.EPSG3857});





Step 3: Add iServer layer to Map

<nead>

.

```
<script type="text/javascript">
var map,layer,
// Set GIS service address for browsing
url = "http://localhost:8090/iserver/services/map-China/rest/maps/China";
function onPageLoad() {
// Create map object
```

map=L.map("mapDiv",{center:[0,0],maxZoom:18,zoom:2,crs:L.CRS.EPSG3857}); L.supermap.tiledMapLayer(url).addTo(map);

</script> </head>



Step 4: Publish Web System

- System deployment and debugging (Tomcat)
 - Copy the GettingStarted folder to the webapps directory of Tomcat
 - Tomcat in SuperMap iServer is employed in this example
 - Copy the GettingStarted folder to [SuperMap iServer root directory]/webapps





Step 4: Publish Web System

• Browse for debugging http://localhost:8090/GettingStarted/







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