

SuperMap 北京超图

SuperMap Software Co., Ltd.

SuperMap iClient for JavaScript Getting Started —OpenLayers

SuperMap Software Co., Ltd.

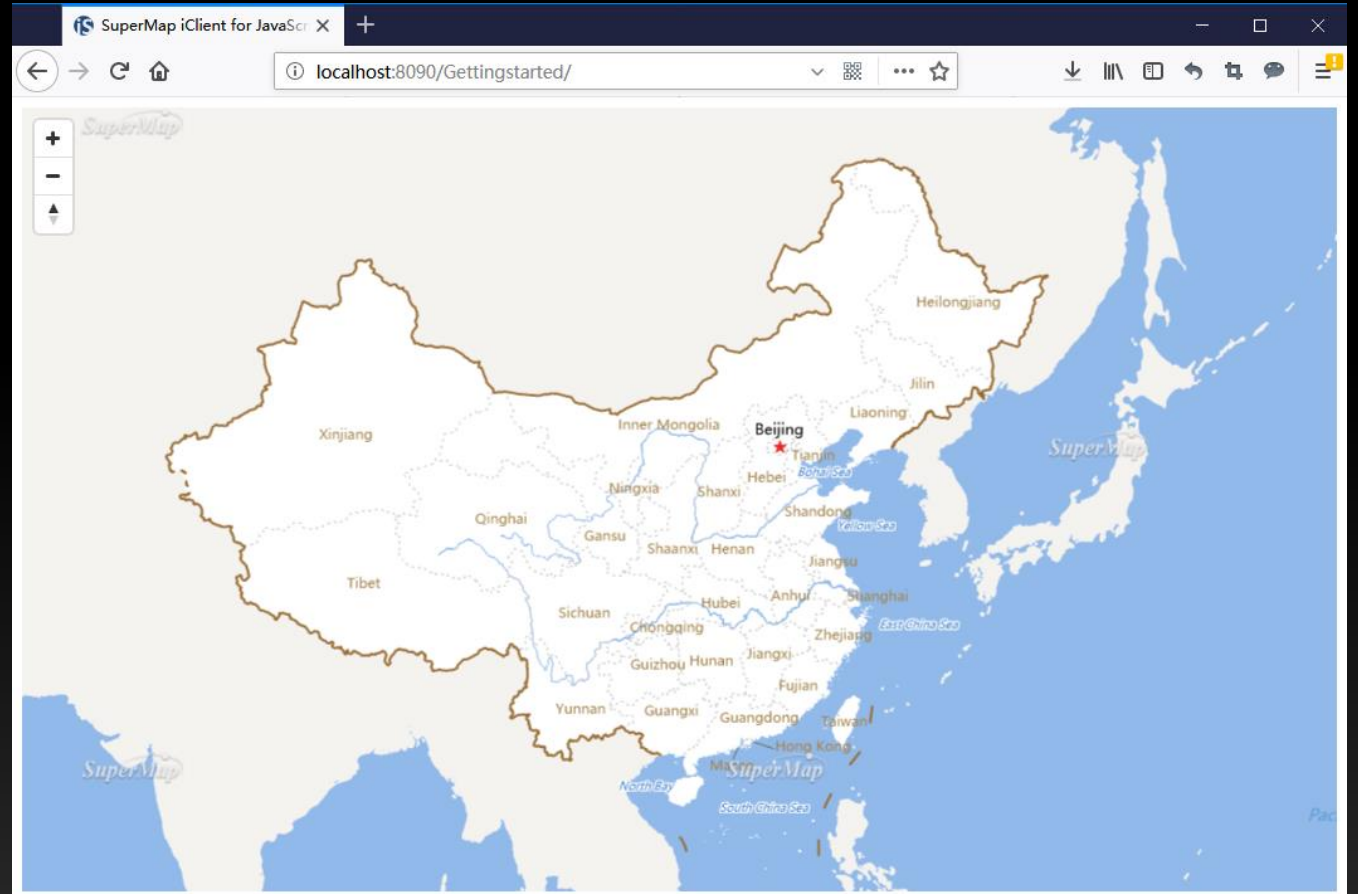
Contents

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

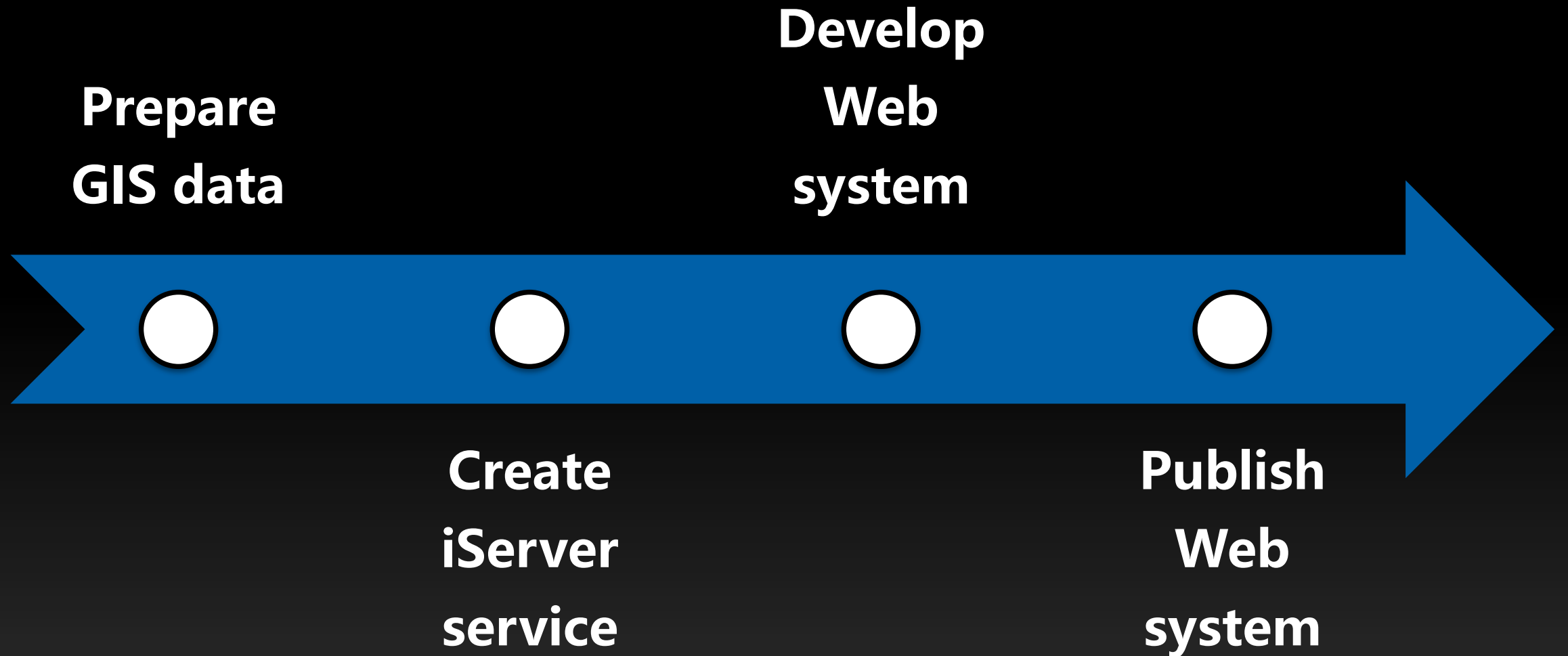
Note: “SuperMap iClient for JavaScript” is abbreviated as “JS” in the course

System Target

- Publish a web system
 - Functions: Browse a map

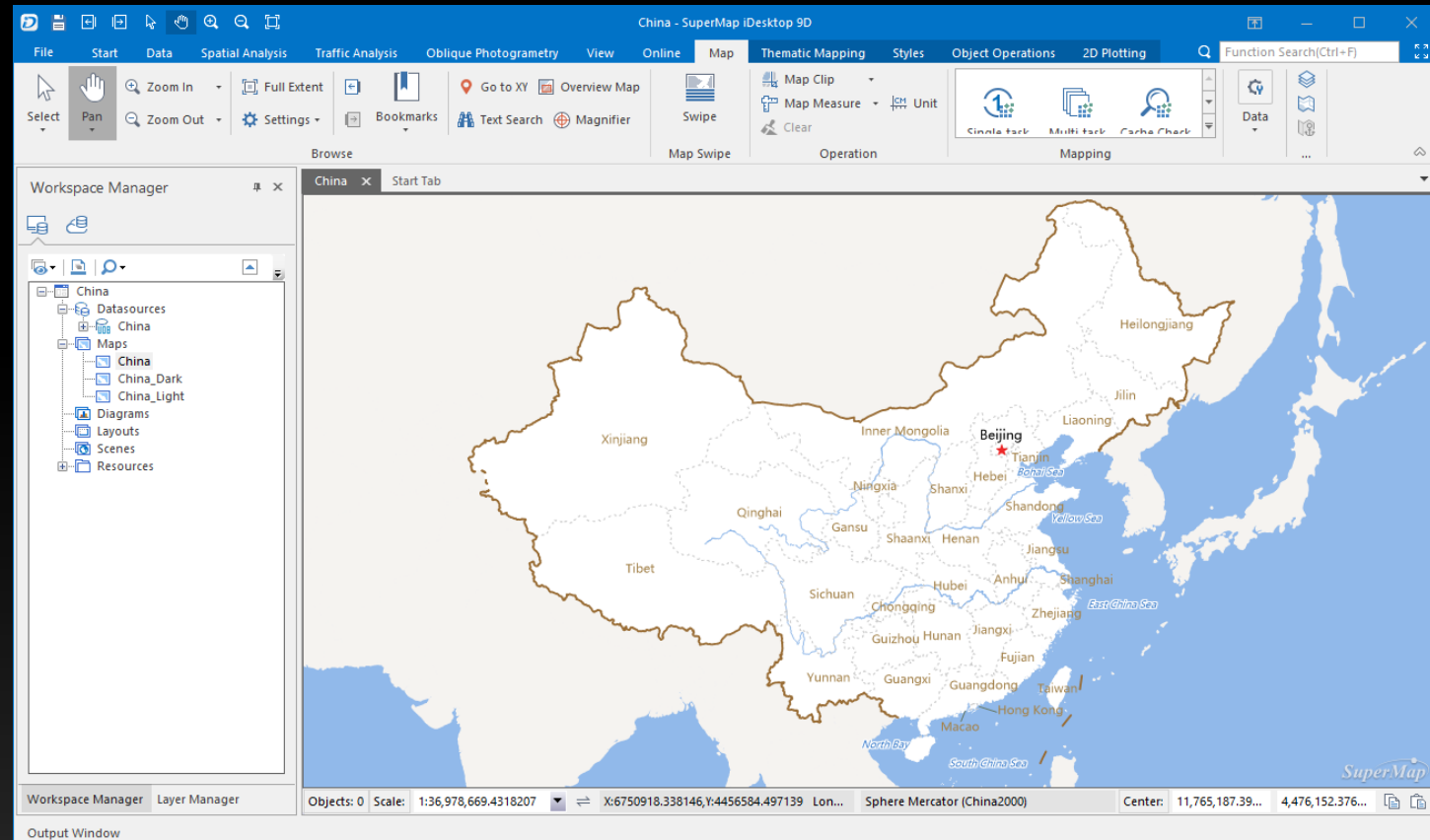


Steps



Step 1: Prepare GIS Data

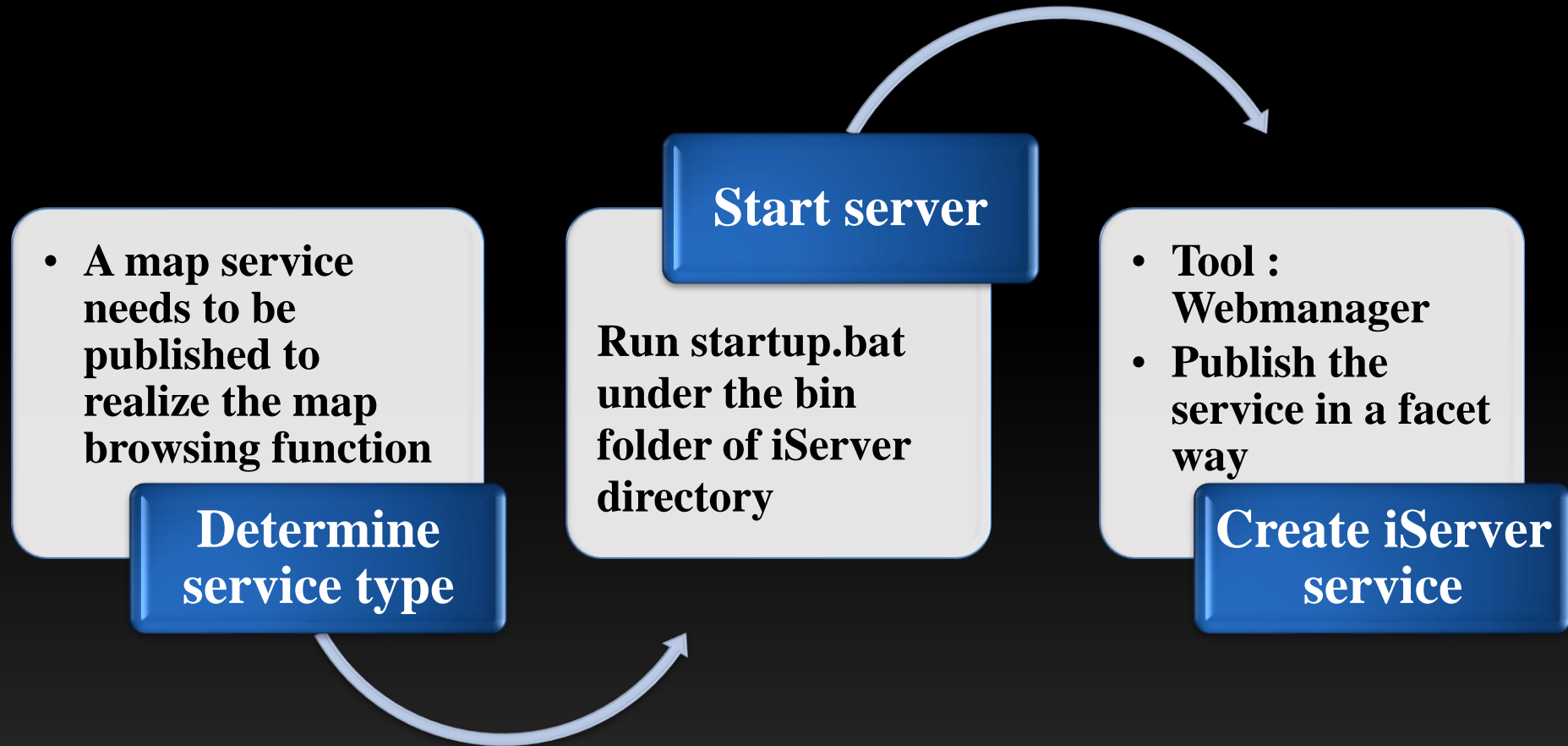
- Prepare GIS data with SuperMap iDesktop
 - Map: World



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

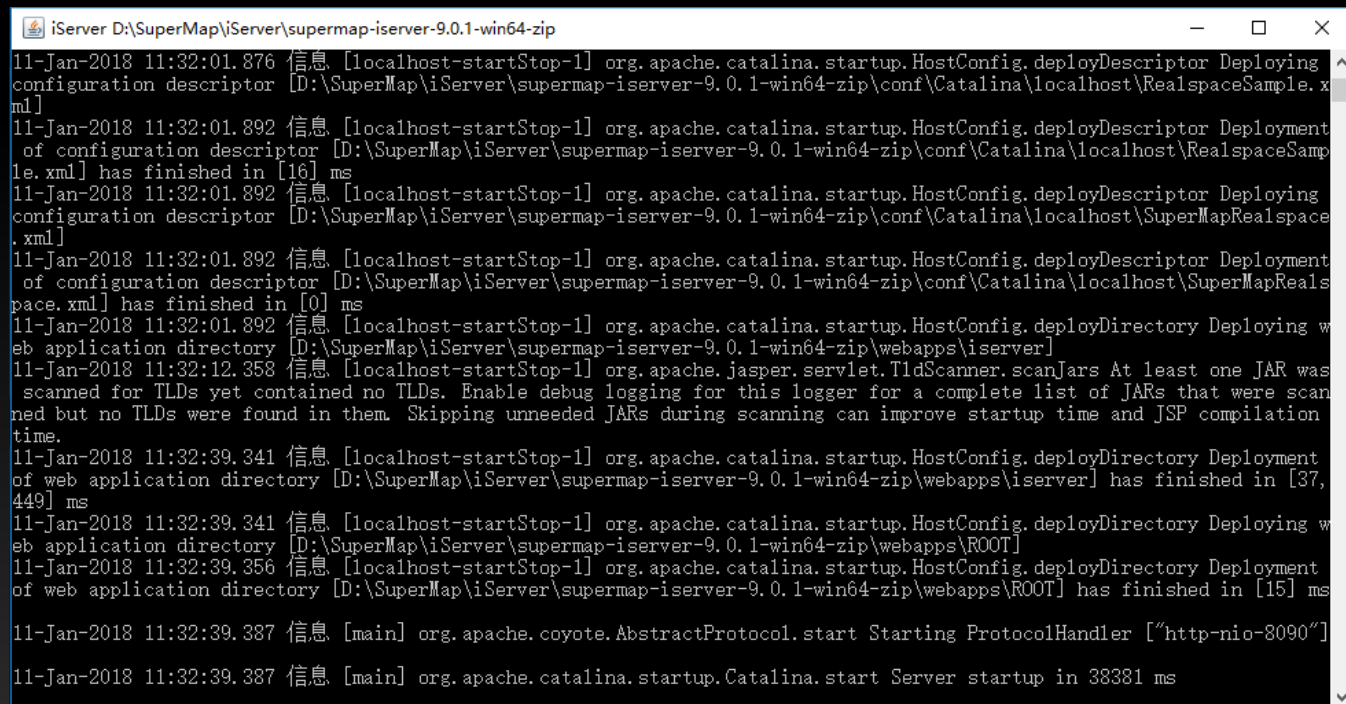
Step 2: Create iServer Service

- Contents



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
ml]
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
le.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\SuperMapRealspace
.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\SuperMapReals
pace.xml] has finished in [0] ms
11-Jan-2018 11:32:01.892 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\iserver]
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 scan
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] ms
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/>

The screenshot displays the SuperMap iServer Manager web interface. The main navigation bar includes Home, Services, Clusters, Logs, Security, Monitoring, Backup, Task, License, and Settings. A sidebar on the left contains shortcuts: Quickly publish services (highlighted with a red box and arrow), Manage service instances, Configure clusters, Distributed tiles, Manage security, and Backup and restore. The main content area shows 'Server performance: 0 requests/sec' and 'Service access statistics' with pie charts. A dialog box titled 'Quickly publish service- Please select the data source' is open, with 'Workspace' selected in the 'Data source' dropdown and 'Next' and 'Cancel' buttons at the bottom.

Quickly publish service-Please select the service type

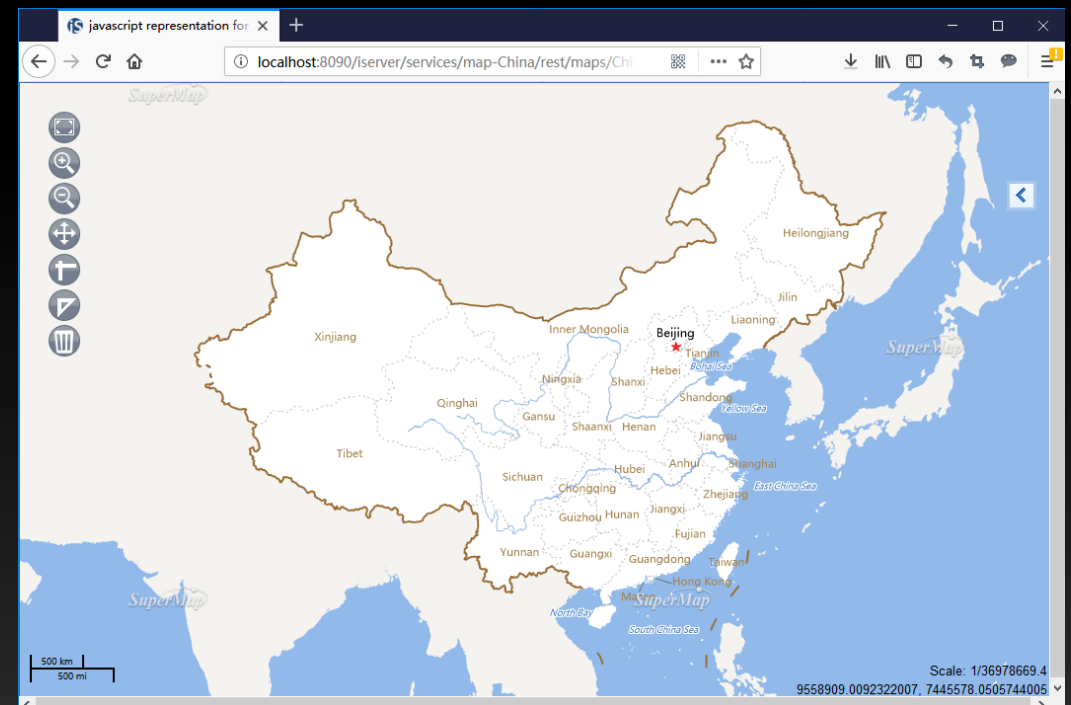
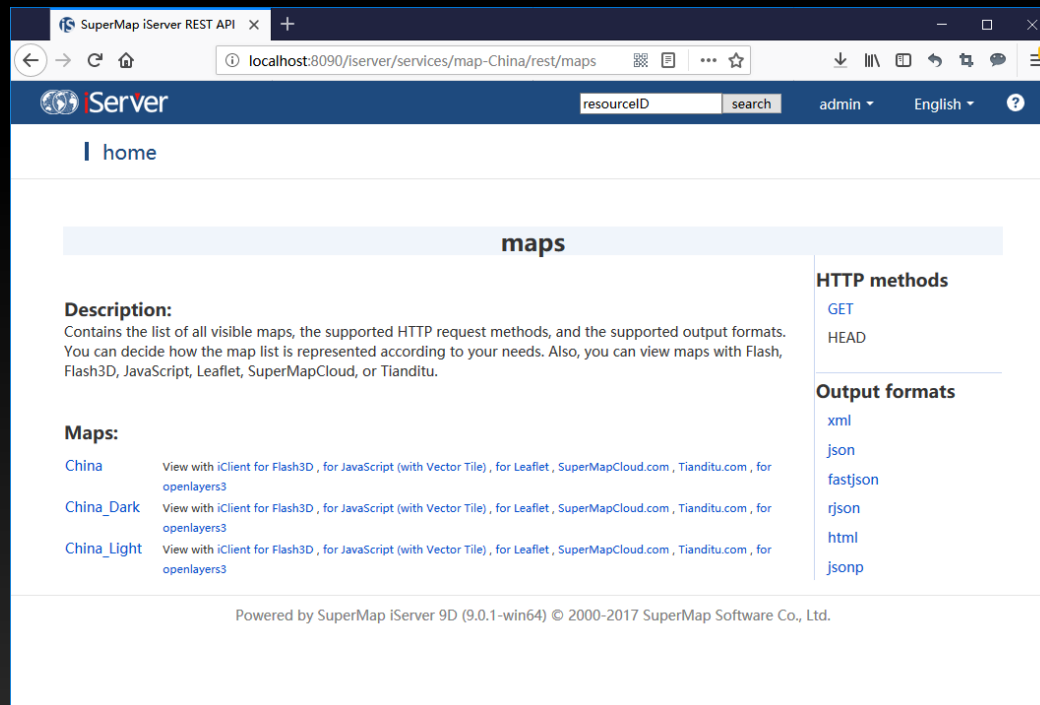
Service types supported by current data source (more than one can be selected).

- Select/Deselect
- REST Map Service
- REST Data Service
- REST 3D Service
- REST SpatialAnalyst Service
- REST TransportationAnalyst Service
- REST TrafficTransferAnalyst Service
- REST-NetworkAnalyst3D Service
- REST Address Match Service
- WMS1.1.1 Service
- WMS1.3.0 Service
- WMTS1.0.0 Service
- WMTS-China Service
- WFS1.0.0 Service
- WFS2.0.0 Service
- WCS1.1.1 Service
- WCS1.1.2 Service
- WPS1.0.0 Service
- ArcGIS REST Map Service
- ArcGIS REST Feature Service
- ArcGIS REST Network Analyst Service
- Baidu REST Map Service
- Google REST Map Service

Back Next Cancel

Step 2: Test iServer Service

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

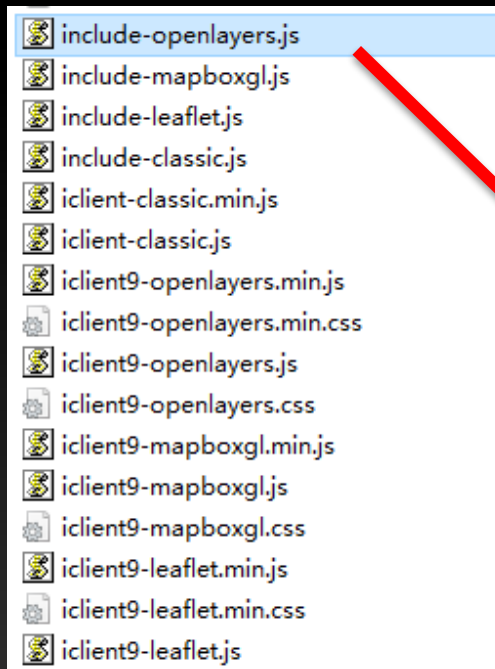


Step 3: Develop Web System

- 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)



```
include-openlayers.js
31 return false
32 }
33 function load() {
34   var includes = (targetScript.getAttribute('include') ||
35     "").split(",");
36   var excludes = (targetScript.getAttribute('exclude') ||
37     "").split(",");
38   if (!inArray(excludes, 'ol')) {
39     inputCSS("../web/libs/openlayers/ol.css");
40     inputScript("../web/libs/openlayers/ol.js");
41   }
42   if (inArray(includes, 'mapv')) {
43     inputScript("../web/libs/mapv/mapv.min.js");
44   }
45   if (inArray(includes, 'turf')) {
46     inputScript("../web/libs/turf/turf.min.js");
47   }
48   if (!inArray(excludes, 'iclient9-openlayers')) {
49     inputScript("../dist/iclient9-openlayers.min.js");
50   }
51   if (!inArray(excludes, 'iclient9-openlayers-css')) {
52     inputCSS("../dist/iclient9-openlayers.min.css");
53   }
54 }
```

Step 3: Create an HTML Page

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

Step 3: Add DIV for Map Control

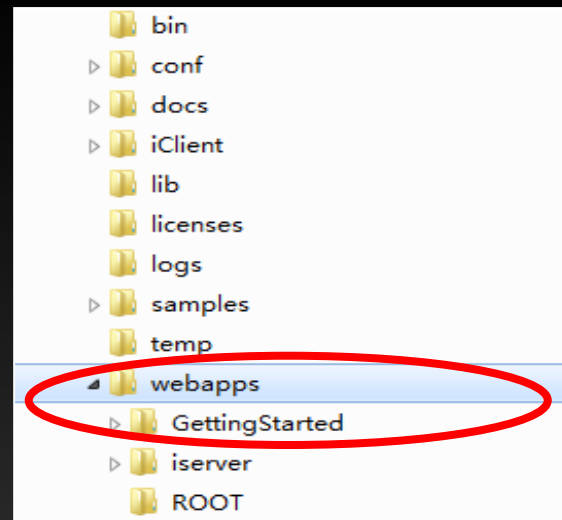
```
<html>  
.....  
<body onload=onPageLoad(>  
    <div id= "myMap" style=" width:100%;height:100% ">  
    </div>  
</body>  
</html>
```

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

```
var map,  
// 设置访问的GIS服务地址  
url="http://localhost:8090/iserver/services/map-china400/rest/maps/China";  
function onPageLoad(){  
    // 创建地图对象  
    map=new ol.Map({  
        view: new ol.View({center: [0, 0],zoom:2,projection:'EPSG:3857'}),  
        layers: [new ol.layer.Tile({  
            source: new ol.source.TileSuperMapRest({url:url})  
        })],  
        target: 'myMap'});  
}
```

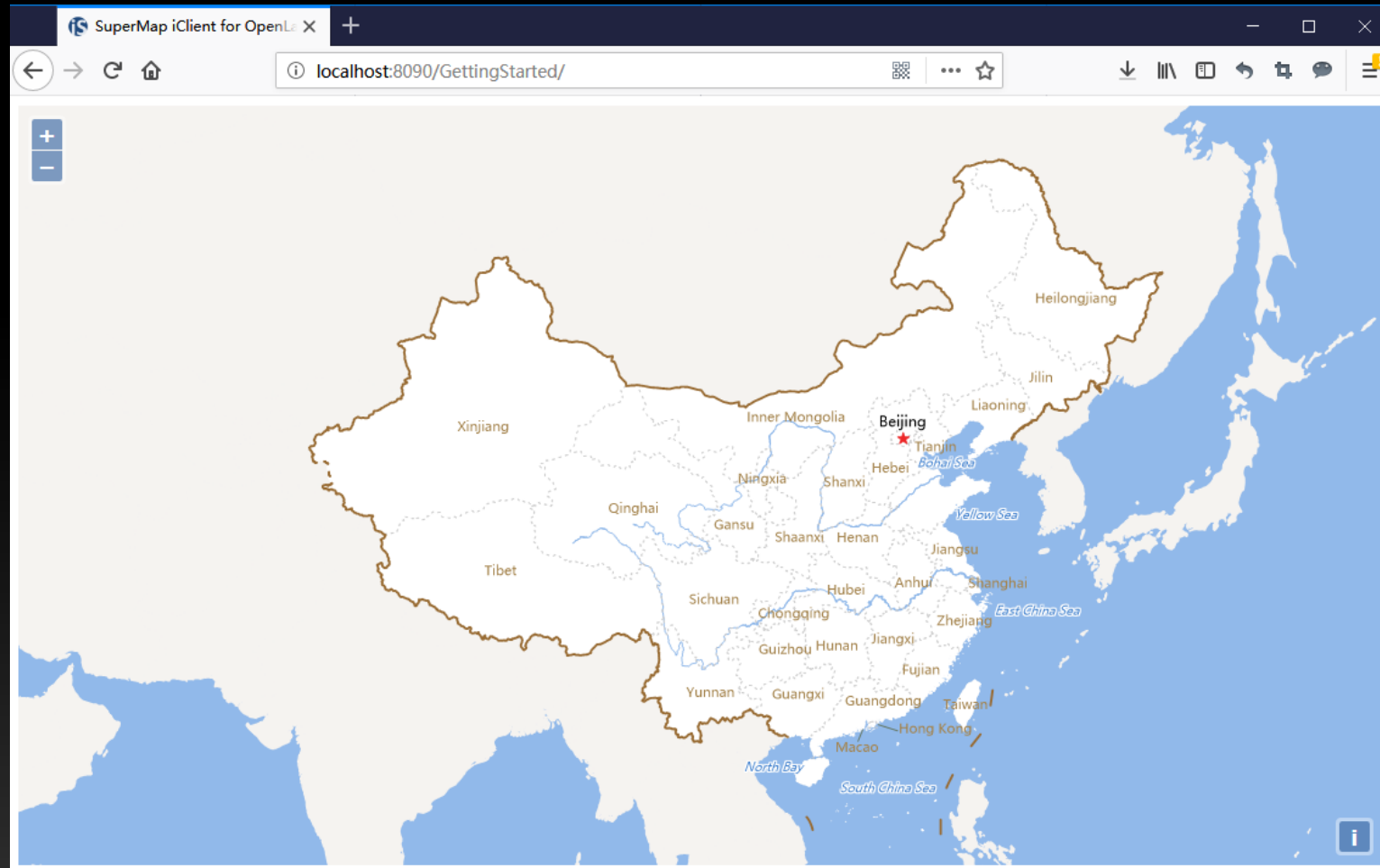
Step 4: Publish Web System

- 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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Thank You!

