

SuperMap iClient for JavaScript Getting Started —Leaflet

SuperMap Software Co., Ltd.

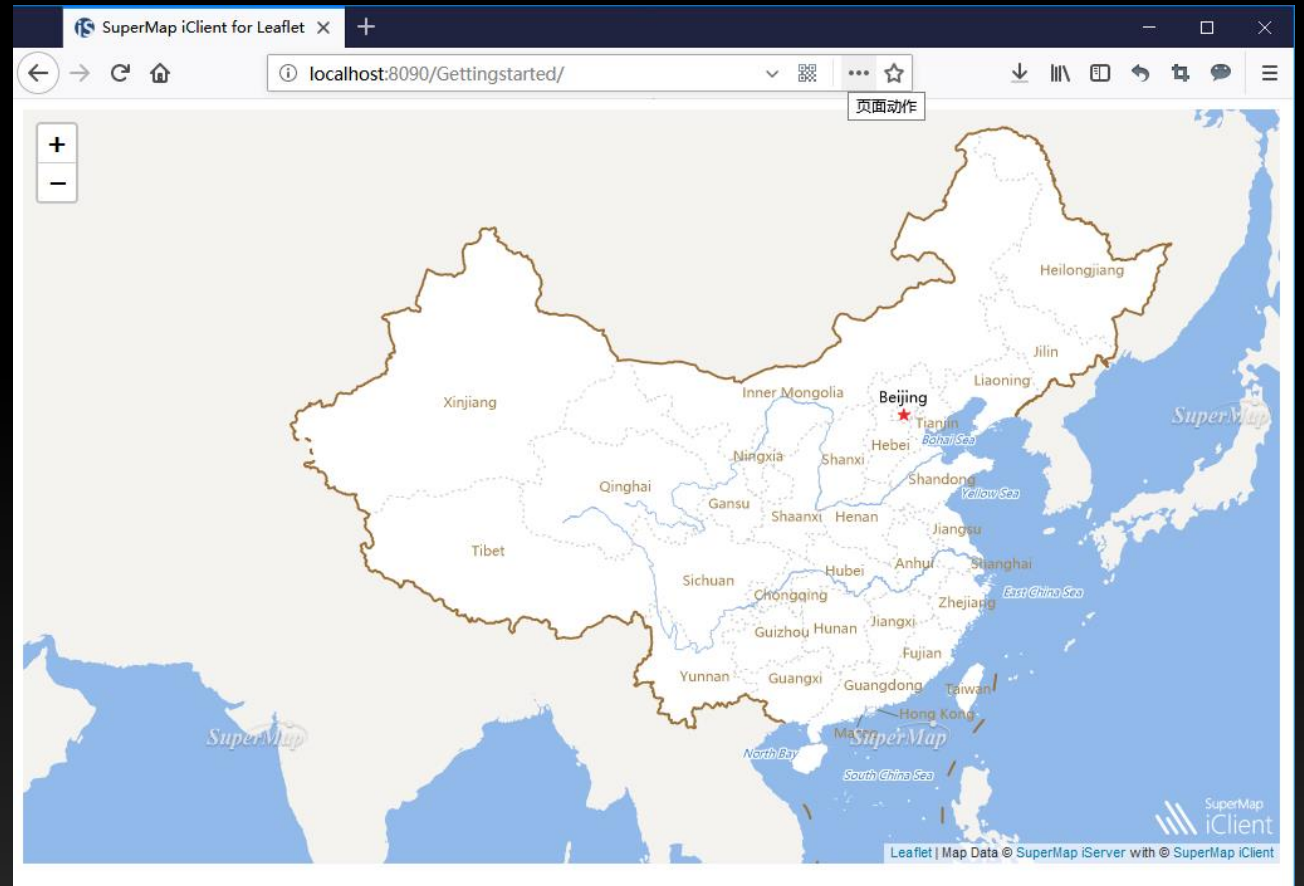
Contents

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

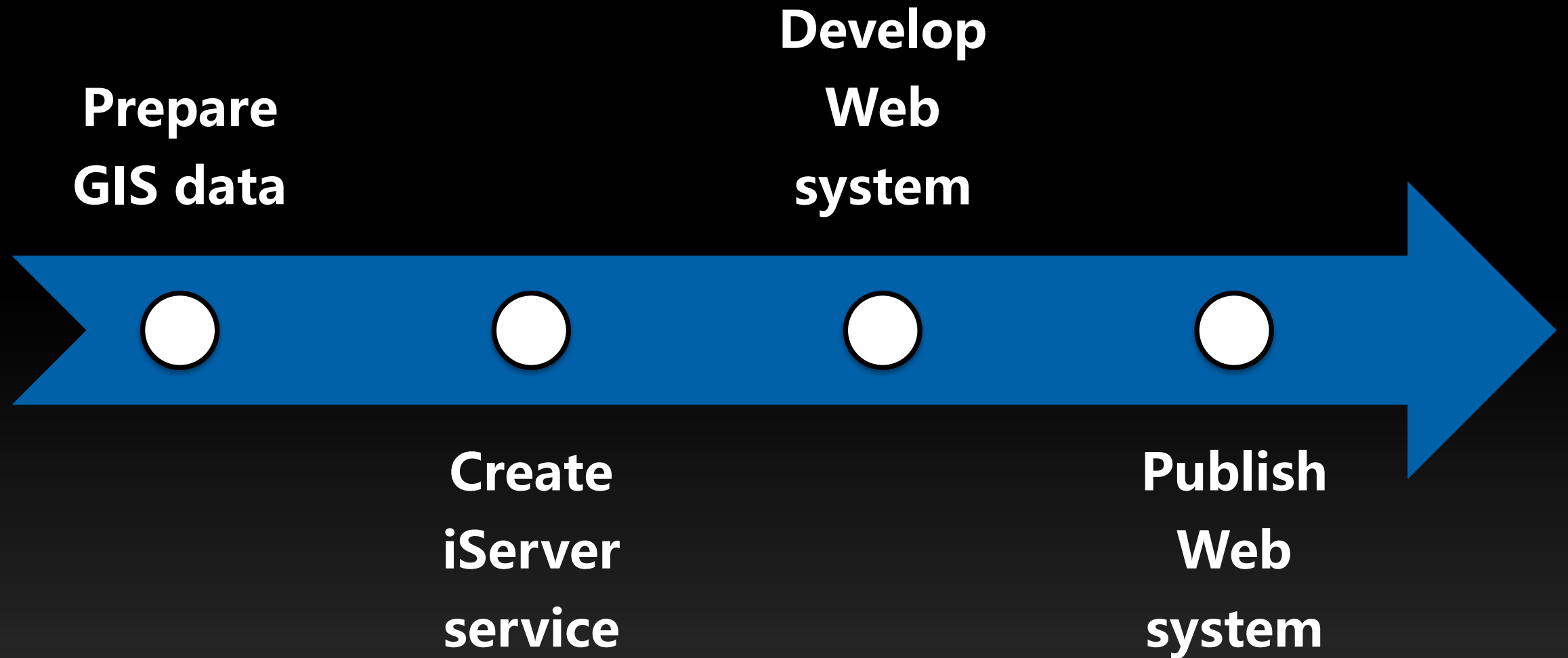
Note: “SuperMap iClient for JavaScript” is abbreviated as “JS” in the course

System Target

- Publish a web system
 - Functions: Browse a map

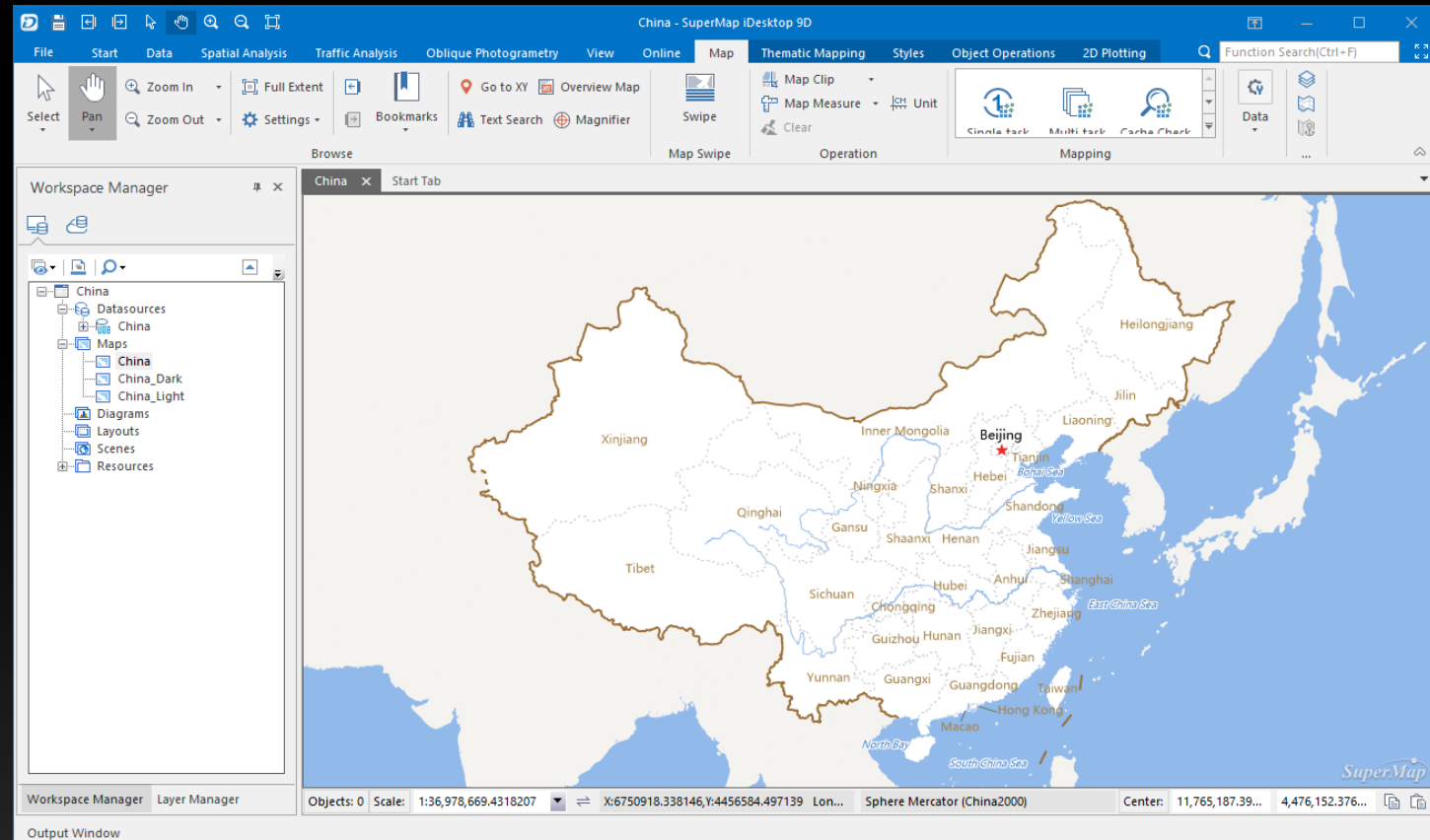


Steps



Step 1: Prepare GIS Data

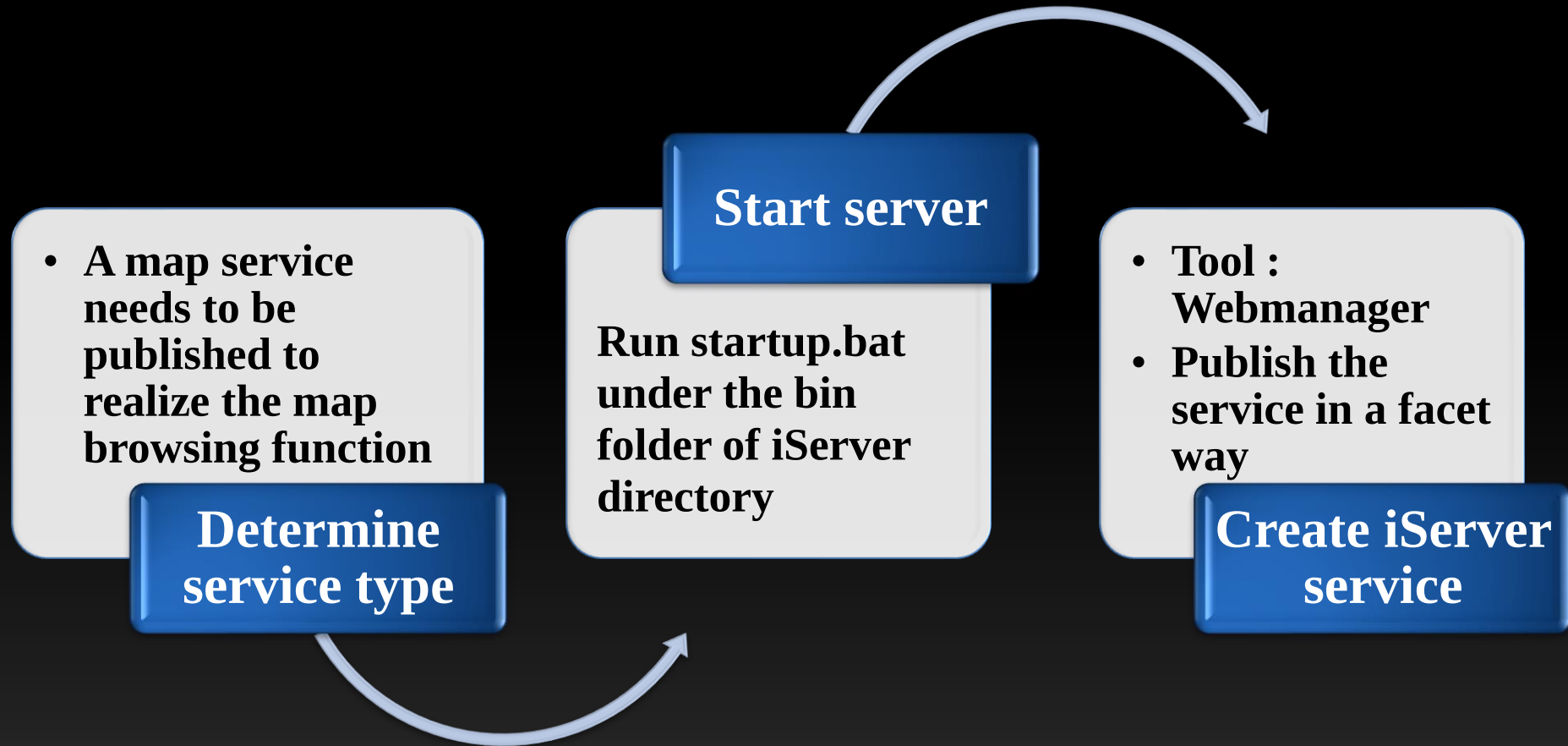
- Prepare GIS data with SuperMap iDesktop
 - Map: World



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

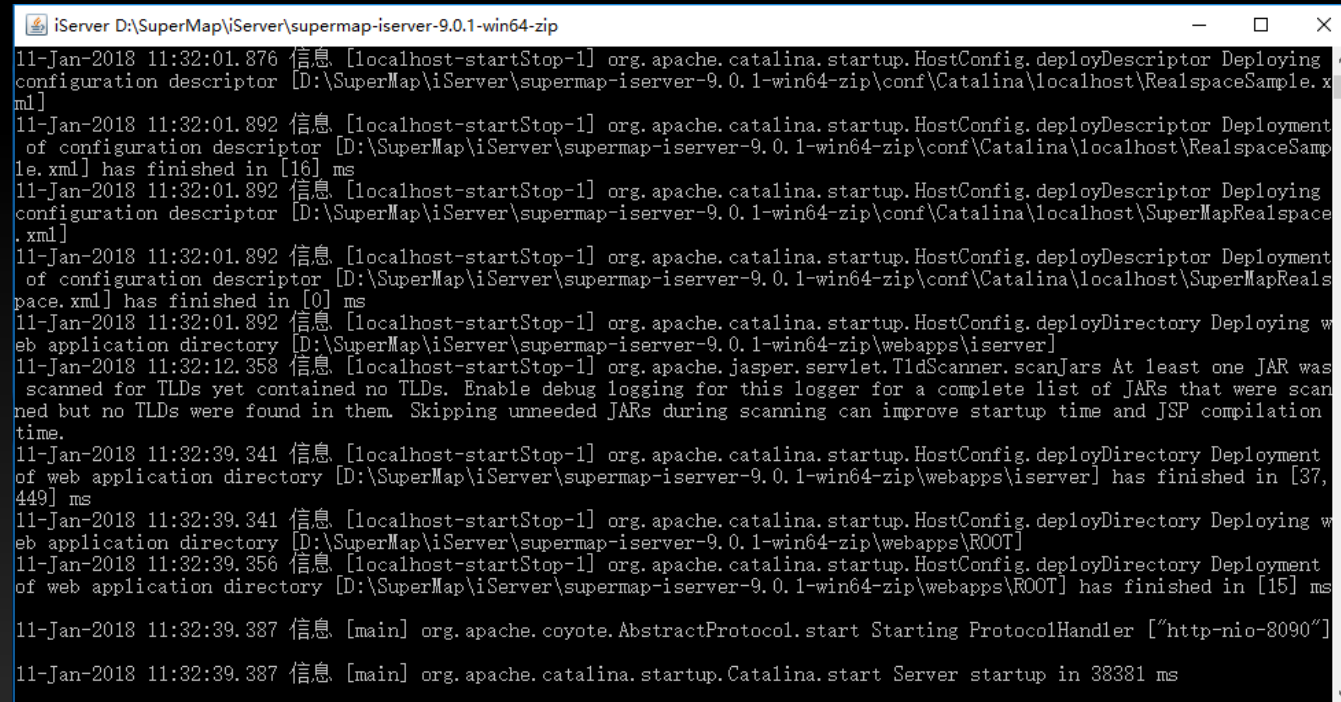
Step 2: Create iServer Service

- Contents



Step 2: Create iServer Service

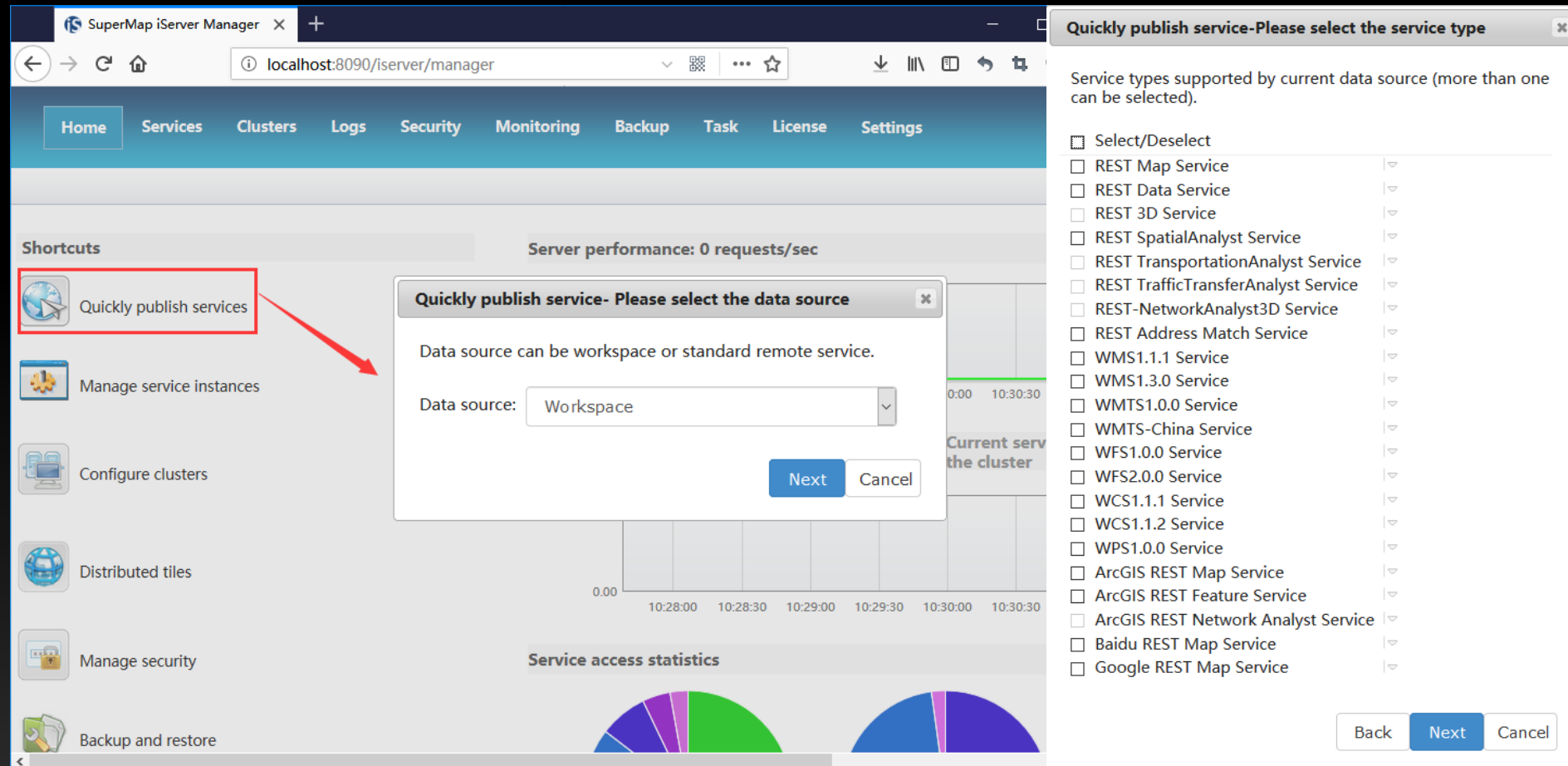
- Start iServer
 - Method 1: Run startup.bat under the bin folder
 - Method 2: Start > Programs > SuperMap > SuperMap iServer > Start iServer Service



```
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\RealspaceSam
ple.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
```

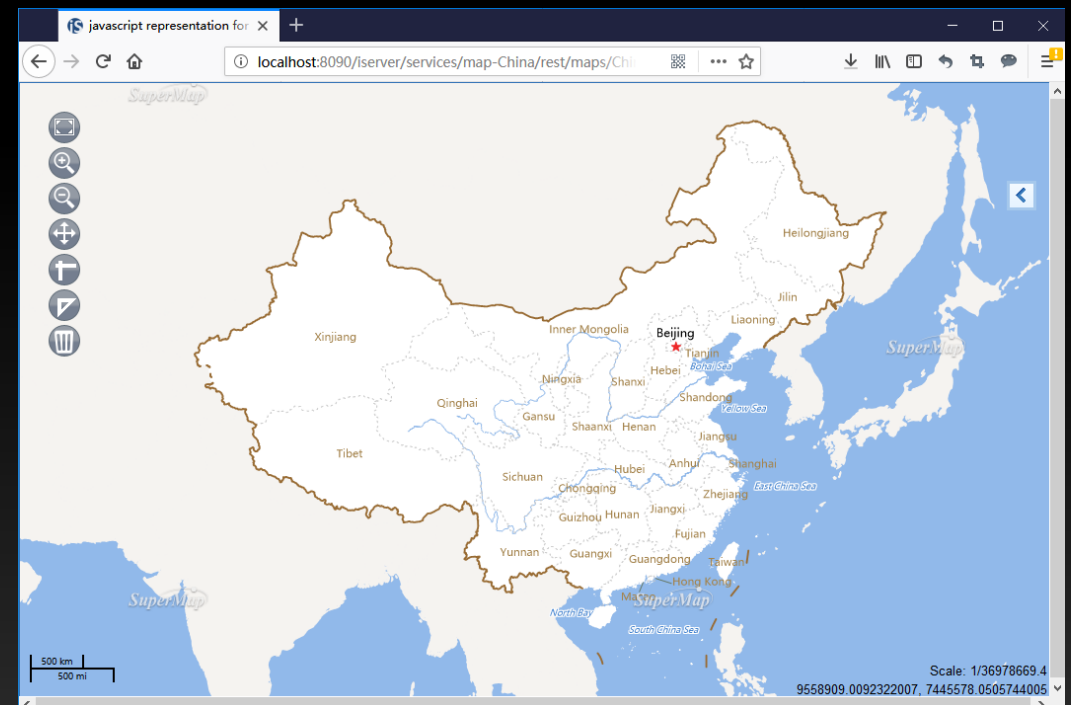
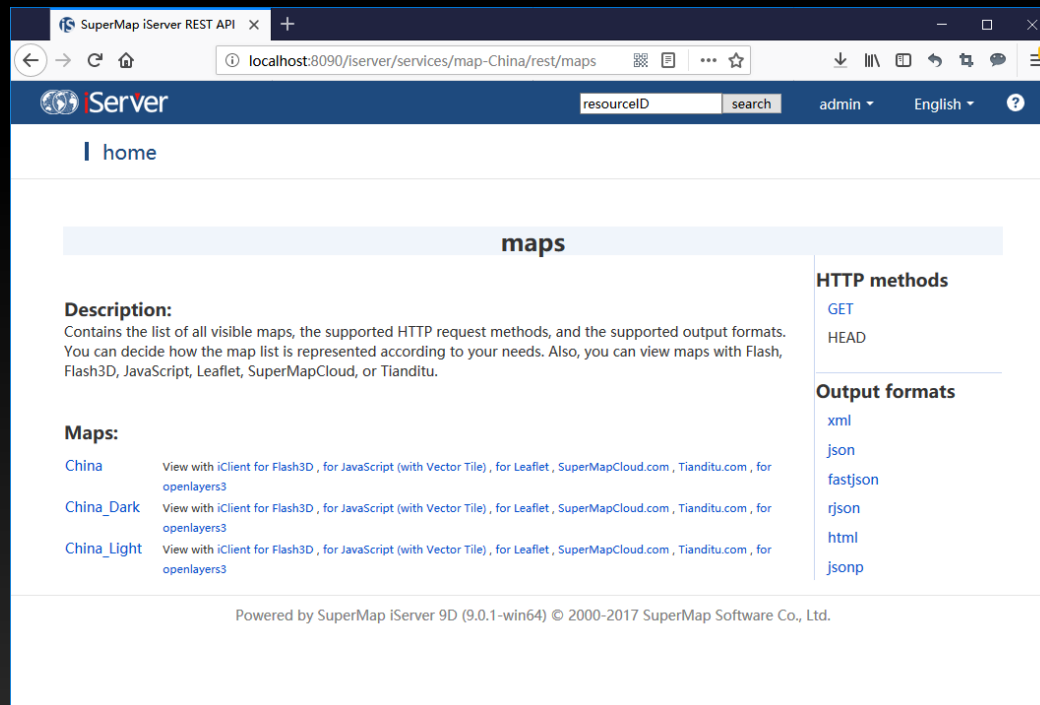
Step 2: Create iServer Service

- <http://localhost:8090/iserver/manager/>



Step 2: Test iServer Service

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

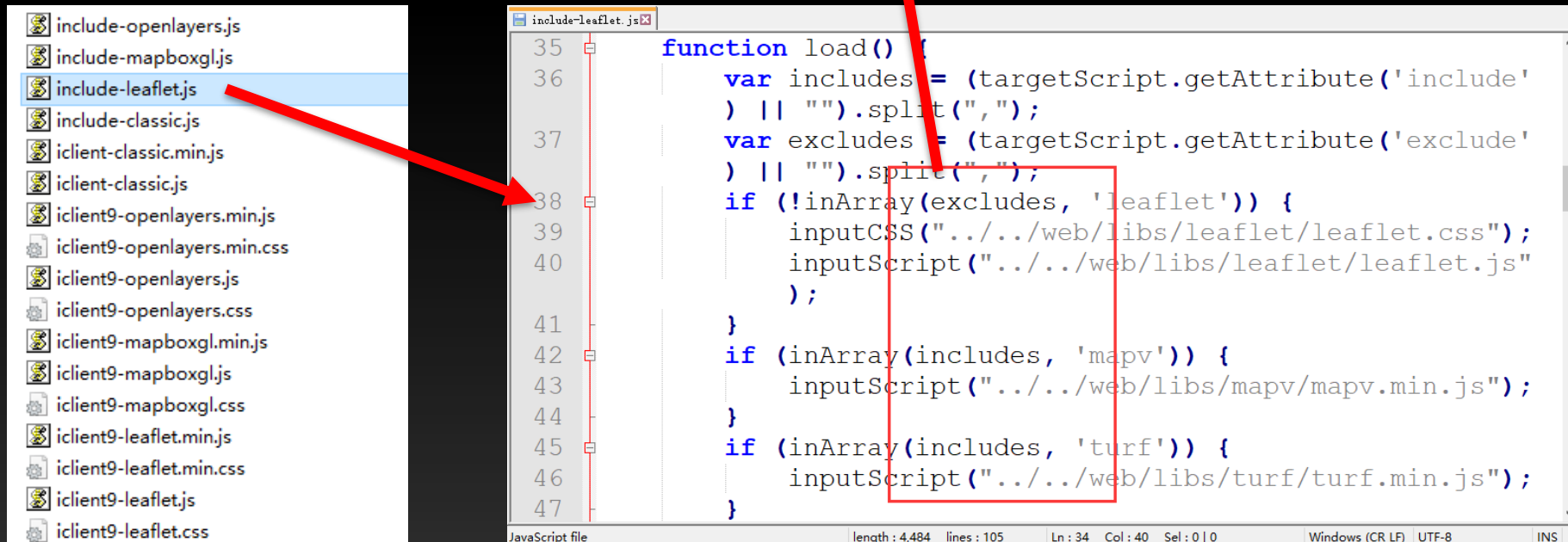


Step 3: Develop Web System

- 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 employs 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 HTML 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});

    }
</script>
</head>
```

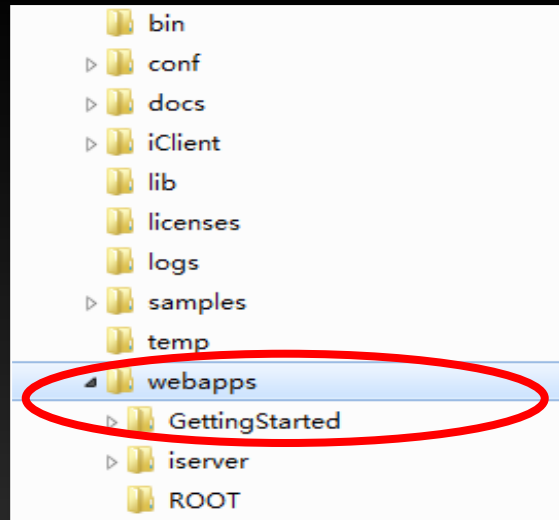
Step 3: Add iServer layer to Map

```
<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() {
        // 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>
```

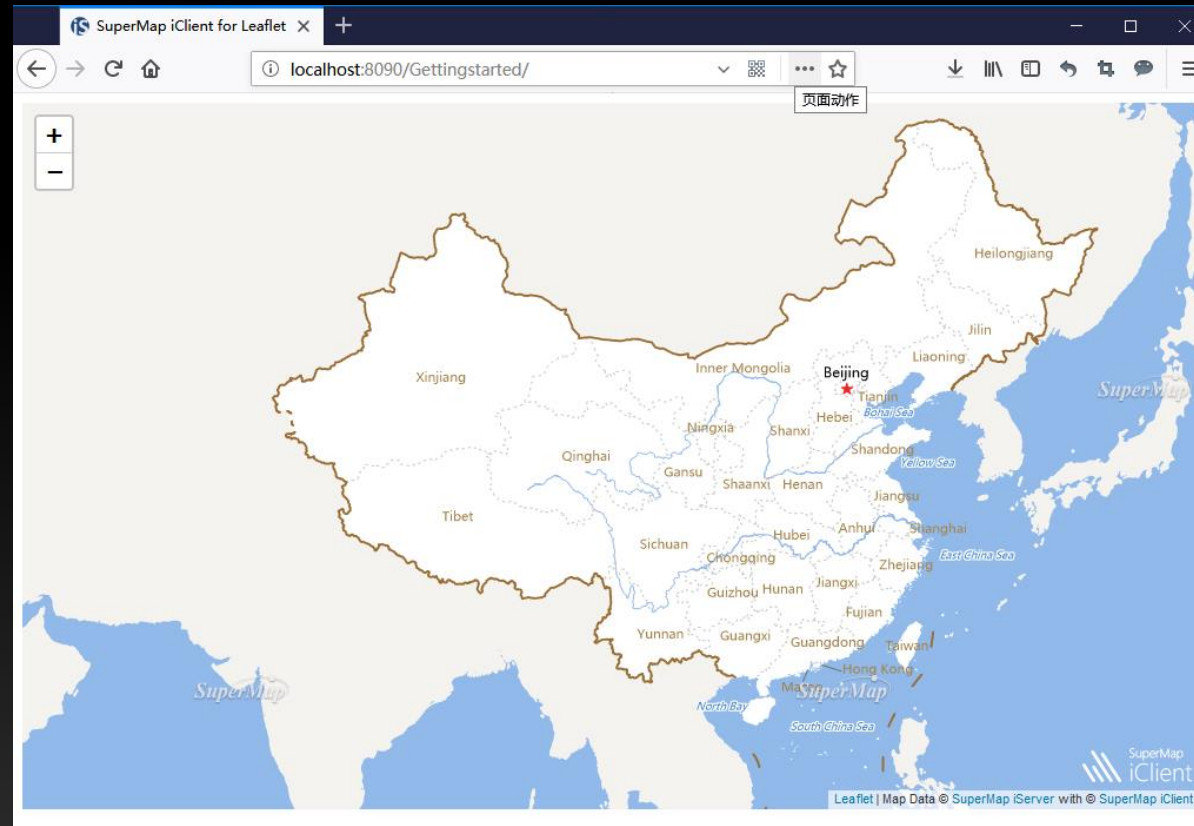

Step 4: Publish Web System

- 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/>



Thanks!

SuperMap

北京超图

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