



SuperMap



SuperMap Web mapping Series Webinar

Kenya

18th – 20th May 2022: DAY 2 of 3

Day 1: Homework Check

- You filled the emailing form
 - Download resources (iClient, iServer, iDesktop)
 - Have installed and configured machine
 - Have registered for the SuperMap Contest 2022
 - Created GitHub account and followed okomojacob to follow along future code versions.
 - Stared SuperMap webMapping repository on GitHub.
 - Once you're done, you can submit(Via response) a screenshot of the results to the email. supermapkenya@gmail.com
-
- i. Download iServer and iClient [here](#)
 - ii. Download OSM Free Spatial Data [from Open Geofabrik here](#)
 - iii. Download free administrative boundaries and 3D (Elevation Data) [from DIV-GIS](#)

Data Processing Preparation Workflow

- Download resources (iClient, iServer, iDesktop)
- Download Spatial Data: OSM, Administration data
- Create New Work Space
- Create a new File Data Sources
- Import data into the new data source(jkuat)
- Clip a small study area to reduce weight and processing cost
- Create a thematic map for buildings to see unique themes
 - Unique Values map
 - Unique Expression type
- Save Map and Workspace
- Start iServer and visit port 8090
- Keenly Publish workspace as shown below

SuperMap iDesktop 10i(2020)

File Start Data 3D Data Spatial Analysis Traffic Analysis Geoprocessing Modeler View Online Maps Thematic Mapping Style Settings AI Mapping Object Operations 2D Plotting Search(Ctrl+F)

Workspace Manager

- KalimoniCadastral
 - Datasources
 - kiambuDataSource
 - KalimoniJuja
 - KalimoniBuildings
 - KalimoniLUse
 - Maps
 - KalimoniJuja@kiambuDataSource
 - Layouts
 - Scenes
 - Diagrams
 - Model

Layer Manager

- KalimoniLUse@kiambuDataSou
- KalimoniBuildings@kiambuData
- KalimoniBuildings@kiambuData
- KalimoniJuja@kiambuDataSou

Thematic Mapping

Thematic Map: KalimoniBuildings@kiambuDataSource#1







Properties Advanced

Expression: type

☒ Reset Unique Value after Expression Changed

Color Scheme:

Vis... Styles Unique Value Title

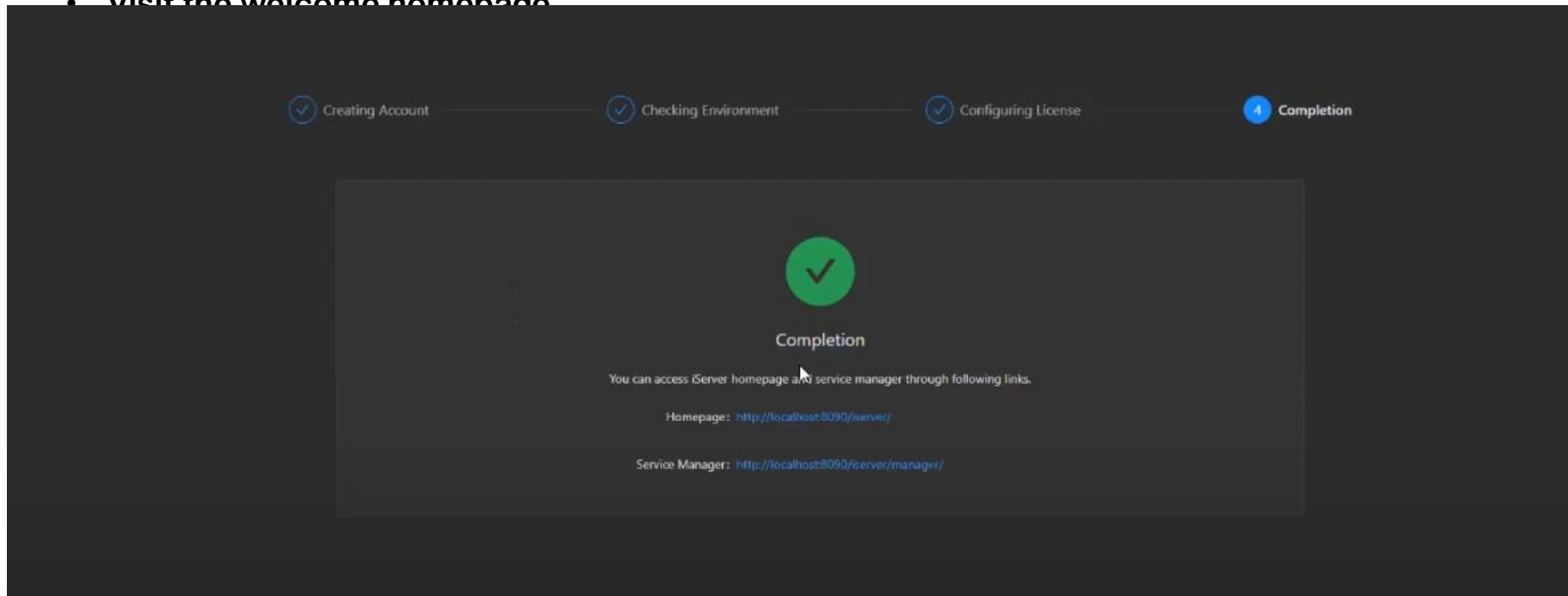
<input checked="" type="checkbox"/>		<NULL>	<NULL>
<input checked="" type="checkbox"/>		apartments	apartments
<input checked="" type="checkbox"/>		construction	construction
<input checked="" type="checkbox"/>		greenhouse	greenhouse
<input checked="" type="checkbox"/>		residential	residential
<input checked="" type="checkbox"/>			Default Style

☒ Apply Immediately Apply

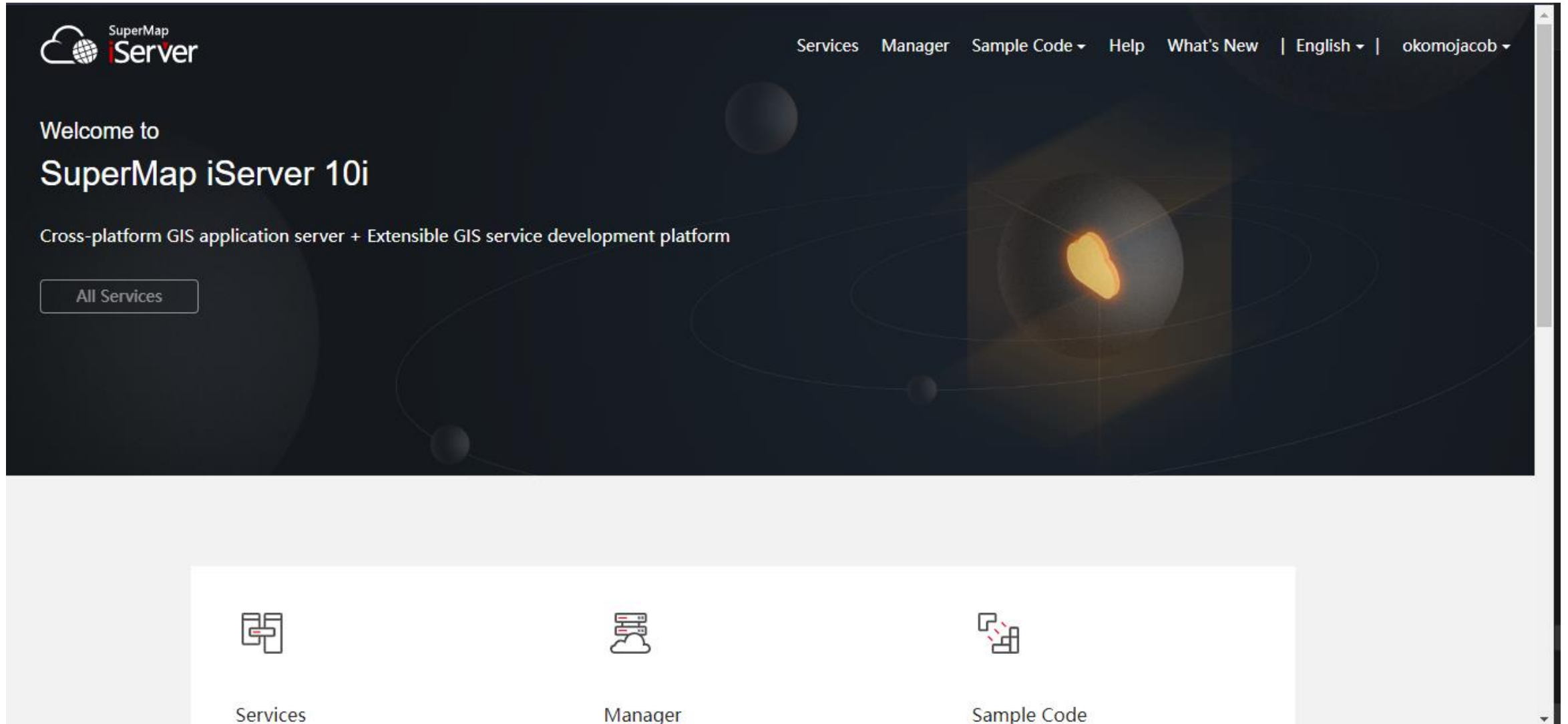
Objects: 0 Scale: 1:122,785.266328384 Lo... G... Center: 37.089542 -1.145421

Publish Workspace Workflow

- Start iServer by double-clicking **startup.bat** in the bin folder and visit port localhost://8090
- To deploy your spatial data in a local GIS-Server for management
- **Initial set-up:**
 - Create a local admin account password.
 - Check environment
 - Configure license then
 - Complete the initial configuration
 - Visit the welcome homepage



Publish Workspace Workflow



The screenshot displays the SuperMap iServer 10i web application. The top navigation bar includes links for Services, Manager, Sample Code, Help, What's New, and a language dropdown set to English. A user profile 'okomojacob' is also visible. The main content area features a dark background with a stylized globe and orbital paths. The text 'Welcome to SuperMap iServer 10i' is prominently displayed, followed by the description 'Cross-platform GIS application server + Extensible GIS service development platform'. A button labeled 'All Services' is present. Below this, a horizontal menu contains three items: 'Services' with a server rack icon, 'Manager' with a server rack icon, and 'Sample Code' with a code block icon.

SuperMap iServer

Services Manager Sample Code Help What's New | English | okomojacob

Welcome to
SuperMap iServer 10i

Cross-platform GIS application server + Extensible GIS service development platform

All Services

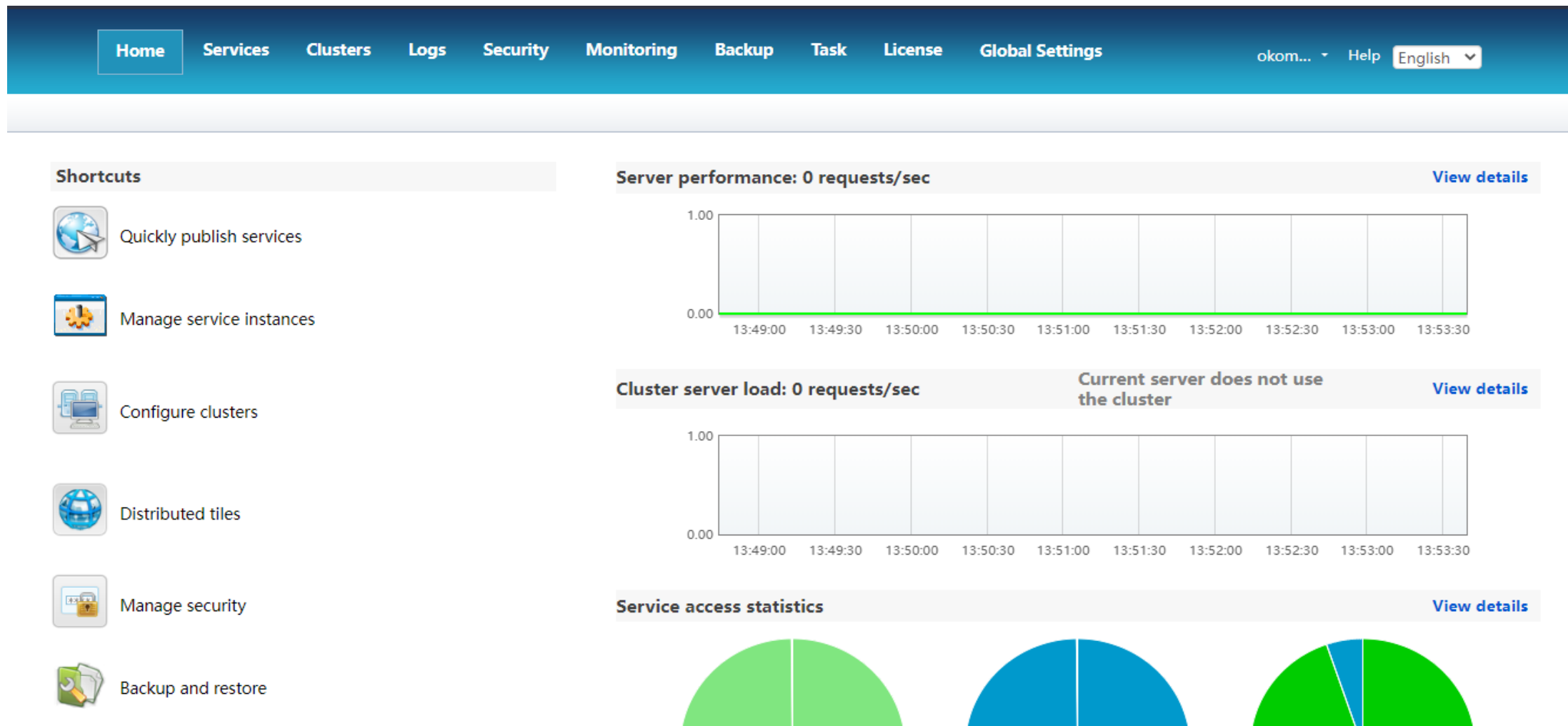
Services Manager Sample Code



Publish Workspace Workflow:

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

- Quickly Publish as a Workspace





Select your remote .smwu Workspace here

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

- Quickly Publish as a Workspace

[Home](#) [Services](#) [Clusters](#) [Logs](#) [Security](#) [Monitoring](#) [Backup](#) [Task](#) [License](#) [Global Settings](#) okom... ▾ [Help](#) English ▾

Shortcuts

Quickly publish services

Manage service instances

Configure clusters

Distributed tiles

Manage security

Backup and restore

Server performance: 0 requests/sec [View details](#)

Quickly publish service-Configure data

Workspace Type: File Workspace ▾

Workspace path: D:/2.WORK/2.SuperMap/V Local browse Remote browse

Password:


Back Next Cancel


Service access statistics [View details](#)


Select REST Map/Data Services for 2D cadastral Mapping


[Home](#) [Services](#) [Clusters](#) [Logs](#) [Security](#) [Monitoring](#) [Backup](#) [Task](#) [License](#) [Global Settings](#) okom... ▾ [Help](#) English ▾


Shortcuts


 Quickly publish services

 Manage service instances

 Configure clusters

 Distributed tiles

 Manage security

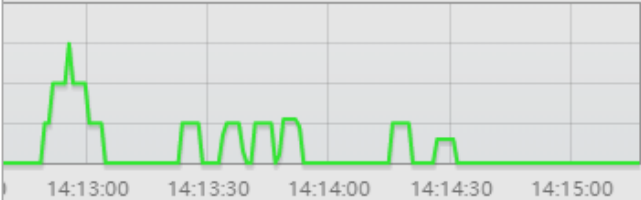
 Backup and restore

Quickly publish service-Please select the service type

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

<input type="checkbox"/>	Select/Deselect	
<input checked="" type="checkbox"/>	REST Map Service	▾
<input checked="" type="checkbox"/>	REST Data Service	▾
<input type="checkbox"/>	REST 3D Service	▾
<input type="checkbox"/>	REST Spatial Analysis Service	▾
<input type="checkbox"/>	REST Transportation Analysis Service	▾
<input type="checkbox"/>	REST Traffic Transfer Analysis Service	▾
<input type="checkbox"/>	REST 3D Network Analysis Service	▾
<input type="checkbox"/>	REST Address Matching Service	▾
<input type="checkbox"/>	REST Vector Tile Service	▾
<input type="checkbox"/>	WMS1.1.1 Service	▾
<input type="checkbox"/>	WMS1.3.0 Service	▾
<input type="checkbox"/>	WMTS1.0.0 Service	▾
<input type="checkbox"/>	WMTS-China Service	▾
<input type="checkbox"/>	WFS1.0.0 Service	▾
<input type="checkbox"/>	WFS2.0.0 Service	▾
<input type="checkbox"/>	WCS1.1.1 Service	▾
<input type="checkbox"/>	WCS1.1.2 Service	▾

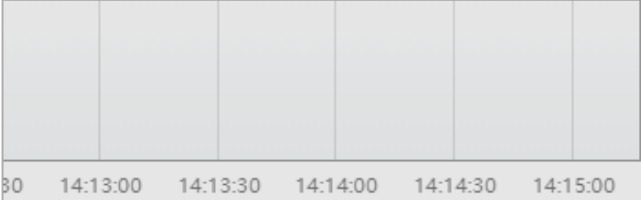
[View details](#)



14:13:00 14:13:30 14:14:00 14:14:30 14:15:00


Current server does not use the cluster

[View details](#)



14:13:00 14:13:30 14:14:00 14:14:30 14:15:00

[View details](#)



Enable Editable

Quickly publish service-Whether the data service is editable or not [X]

Editable: ☒

Enable delay commit: ☐

Back Next

Quickly publish service-Whether the map service is editable or not [X]

Editable: ☒

DPI:

Back Next Cancel

Quickly publish service-Configuration completed [X]

Service instance information:

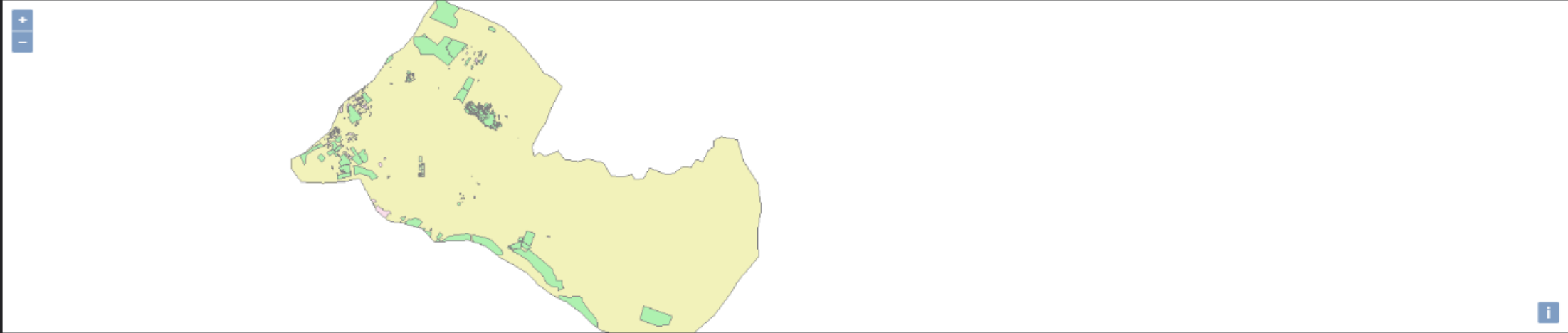
Data source: KalimoniCadastral.smwu

Service type: rest-map,rest-data

Back Finish Cancel

Preview and Inspect the Map Service in iClient

Dimensions: Responsive ▾ 1859 × 394 71% ▾ No throttling ▾



Elements Console Sources Network Performance Memory Application Security Lighthouse

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>...</head>
  <body onload="init()">
    <div id="map">
      <div class="ol-viewport" data-view="1" style="position: relative; overflow: hidden; width: 100%; height: 100%; touch-action: none;">
        <canvas class="ol-unselectable" width="1859" height="394" style="width: 100%; height: 100%; display: block;" == $0
        <div class="ol-overlaycontainer"></div>
        <div class="ol-overlaycontainer-stopevent">...</div>
      </div>
    </div>
    <div id="popup" class="ol-popup">...</div>
  </body>
</html>
```

html body div#map div.ol-viewport canvas.ol-unselectable

Styles Computed Layout Event Listeners

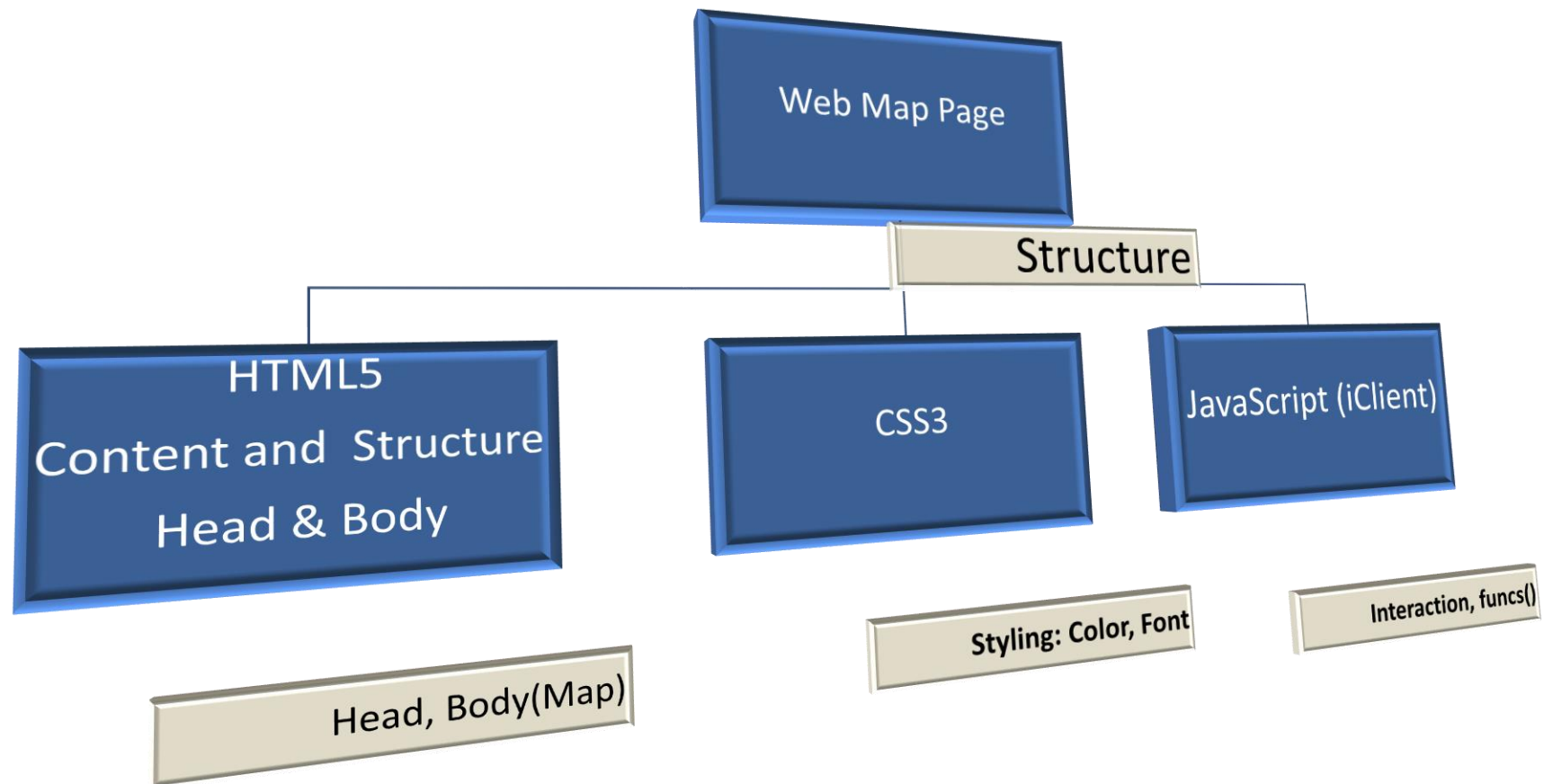
Filter :hov .cls + [4]

```
element.style {
  width: 100%;
  height: 100%;
  display: block;
}

.ol-unselectable, .ol-viewport {
  -webkit-touch-callout: none;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
  -webkit-tap-highlight-color:
}
```

ol.css:1

Basic Website structure



Daily 2: Homework

- Ensure you're in the mailing list
- If not yet, fill this form.
- Download the OSM Landuse and buildings data
- Download Admin and Elevation data from DIVA-GIS
- Choose a study area of your interest, preferably your home county
- Process the data in iDesktop,
- Publish your result in iServer
- Take screenshots of the results and respond to email
- **You should complete the daily homework before the next meeting**
- Read On: The connection of a simple Website and DOM manipulation, Basic JavaScript Functions.
- SoloLearn, MDN, Codecademy, CodeWars, W3Schools

Thank You !