

CitySDK Platform Linux Installation Guide

The CitySDK platform may be run using under a Linux based operating system

System requirements

- Linux based operating system

Installation procedure

Despite of any recent Linux distribution could be used for hosting the CitySDK service, for the production of this document, an Ubuntu-Server 12.04.2 LTS was used.

1. MongoDB database installation

```
sudo apt-get install mongodb
```

2. Mono framework installation

```
sudo apt-get install mono-xsp4
```

3. Get the CitySDK API package from the citySDK website

```
wget http://citysdk.ist.utl.pt/apidoc/latest.zip
```

4. Unpack the CitySDK package (downloaded from the CitySDK website). The server part is under the API directory of the decompressed folder.

```
unzip latest.zip
```

5. Adjust the configurations of the package's web.config (in CitySDK/API/Web.config file under <appsettings> section) according to the correct parameters, namely the BaseURL:

```
<add key="MongoServer" value="mongodb://localhost" />  
<add key="MongoDatabase" value="CitySDK" />  
<add key="BaseURL" value=" http://<server_path>/" />
```

Running the service

Considering that the CitySDK package was unpacked to directory <directory> and the service should run on the port <port>, for starting the CitySDK service the following command should be issued:

```
xsp4 --applications /:<directory> --port <port>
```

Example for a installation unpacked in /var/www/citysdk for running the server on port 8080:

```
xsp4 --applications /:/var/www/citysdk --port 8080
```

If the server started successfully, it should output:

```
xsp4  
Listening on address: 0.0.0.0  
Root directory: /home/aoliveira  
Listening on port: 8080 (non-secure)  
Hit Return to stop the server.
```

Testing

For testing the installation, you need to point a web browser to the resources page of the API:

http://<API_IP_ADDRESS>:<API_PORT>/citysdk/resources

If the API is running, you should see a page containing the available resources:

```
{ "citysdk-tourism": { "version": "1.0", "_links": { "find-categories": { "href": "http://tourism.citysdk.cm-lisboa.pt/categories/search{?list,limit,offset}", "templated": "true" }, "find-code": { "href": "http://tourism.citysdk.cm-lisboa.pt/search{?code}", "templated": "true" } } } }
```