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# **Read the Docs Template Documentation**

*Release 1.0*

**Read the Docs**

**Jul 17, 2023**



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# Nominatim Server

Build a Nominatim Server with OpenStreetMap Data



**Get Started**  
Get started with OpenNameSearch

**Search**  
Search

**Reverse**  
Reverse Search

**GeoFabrik**  
PBF Downloads

**OpenSteetMap**  
OpenStreetMap





## 1.1 Overview

This script is for building a basic Nominatim server with OpenStreetMap data

## 1.2 Authors

- David Ghedini
- Kaloyan Petrov
- Cited, Inc

## 1.3 Components

<https://www.openstreetmap.org>

<http://www.geofabrik.de/>

<http://mapnik.org/>

<http://openlayers.org/>

<http://leafletjs.com>

<http://www.postgresql.org/>

<http://postgis.net/>





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## Installation and Usage

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This script is for building a basic Nominatim server with OpenStreetMap data.

Only for use on a clean Ubuntu 22!

### 2.1 Running the Script

Step 1: Get the OpenNameSearch.sh script from GitHub:

```
wget https://raw.githubusercontent.com/AcuGIS/Nominatim_Server/master/Nominatim_
↳Server.sh
```

Step 2: Make it executable:

```
chmod 755 Nominatim_Server.sh
```

Step 3: Run the script:

```
./Nominatim_Server pbf_url
```

### 2.2 Examples

Load Andorra data (one of the smallest data sets):

```
./OpenNameSearch.sh https://download.geofabrik.de/europe/andorra-latest.osm.pbf
```

### 2.3 Welcome Page

Once installation completes, navigate to the IP or hostname on your server.

You should see a page as below:



Click the Search function (or go to [domain.com/search.html](http://domain.com/search.html))

You should see a page as below:

**Nominatim Demo** Search Reverse Search By ID About & Help

Simple **Structured**

Search


▶ Advanced options

Data last updated: 1 day ago (Details)

## Welcome to Nominatim

Nominatim is a search engine for [OpenStreetMap](#) data. This is the debugging interface.

[More information](#)



Addresses and postcodes are approximate. Blue circle is search result, smaller red circle is search position (reverse geocoding).

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To test functionality, enter below into the Search box:

AD500 Andorra la Vella, Andorra

Confirm that results are returned

My Server demo Search Reverse Search By ID About & Help


N10906007317 [Show](#)

OSM type+id (N123, n123, W123, w123, R123, r123), Place id (1234) or URL (<https://openstreetmap.org/way/123>)

Data from API request (debug output) Data last updated: 6 days ago (Details)

## Esteve Albert Corp [link to this page](#)

Name	Esteve Albert Corp (name)
Type	historic:memorial
Last Updated	2023-07-15T18:38:17+00:00
Search Rank	30
Address Rank	30 (house / building)
Importance	0.000009999999999995449
Coverage	Point
Centre Point (lat,lon)	42.5070176,1.5211723
OSM	<a href="#">node 10906007317</a>
Place Id	102923 ( <a href="#">on this server</a> )
Computed Postcode	AD500 ( <a href="#">how?</a> )
Address Tags	
Extra Tags	



## Address

Local name	Type	OSM	Address rank	Admin level	Distance
Esteve Albert Corp	historic:memorial		29	0	
Placeta Sant Esteve	highway:pedestrian	<a href="#">way 1055584591</a>	26	0	<a href="#">details</a>
Centre històric	place:neighbourhood	<a href="#">node 2125755654</a>	22		<a href="#">details</a>

## 2.4 Loading and Reloading PBFs

You can use our reload-OpenNameSearch.sh script via GitHub script.

Usage is:

```
./reload-Nominatim Server.sh [PBF_URL1] [PBF_URL2] ...
```

## 2.5 Enable Automatic Updates

The script creates an updater service. In order to enable updates:

```
chmod +x /etc/init.d/nominatim_updater
```

## 2.6 Credits

<https://www.acugis.com>

<https://citedcorp.com>

## 2.7 Contribute

- Issue Tracker: [github.com/AcuGIS/OpenNameSearch/issues](https://github.com/AcuGIS/OpenNameSearch/issues)

- Source Code: [github.com/AcuGIS/OpenNameSearch](https://github.com/AcuGIS/OpenNameSearch)

## 2.8 Support

If you are having issues, please let us know.

## 2.9 License

The project is licensed under the BSD license.



### 3.1 Check Hostname

Be sure that your server hostname is properly set.

While you can use Nominatim with only an IP address, if you wish to use SSL, be sure to set the hostname.

You can check using the 'hostname' command

```
root@suite:~# hostname
server1
```

If the full hostname is not set, use hostnamectl to set the full hostname:

```
root@suite:~# hostnamectl set-hostname server1.domain.com
```

Use the hostname command to verify the full hostname is now set:

```
root@suite:~# hostname
server1.domain.com
```

### 3.2 Get Certificate

In order to provision SSL for your instance, follow below:

1. Install the python Cerbot module for Apache:

```
apt-get -y install python3-certbot-apache
```

2. Request certificate:

```
certbot --apache --agree-tos --email hostmaster@domain.com --no-eff-email -d_
↳domain.com
```

Be sure to replace 'domain.com' above with your actual domain or sub domain.

### 3.3 Update Configuration

You will need to update the Nominatim webapp configuration.

To do so, edit /var/www/html/theme/config.theme.js

Replace:

```
Nominatim_Config.Nominatim_API_Endpoint = "http://domain.com/nominatim/"
```

with:

```
Nominatim_Config.Nominatim_API_Endpoint = "https://domain.com/nominatim/"
```

Restart Apache for update to take effect:

```
service apache2 restart
```



## CHAPTER 4

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