

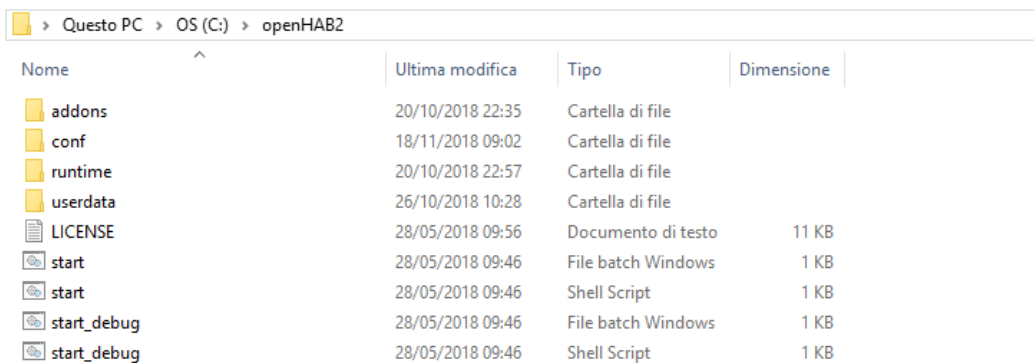
# User Guide

## How to install Openhab Management System

**Prerequisite:** installation of OpenHAB2 (for more information visit <https://www.openhab.org/>).

To use our Management system in OpenHab you have to **follow this steps**:

1. Go to VirtualSmartHomeproject / OpenhabManagementSystem / conf
2. Copy the following folders:
  - a. Icons
  - b. Items
  - c. Rules
  - d. Sounds
  - e. Things
3. Go to your OpenHAB2 folder, it will appear like this one:



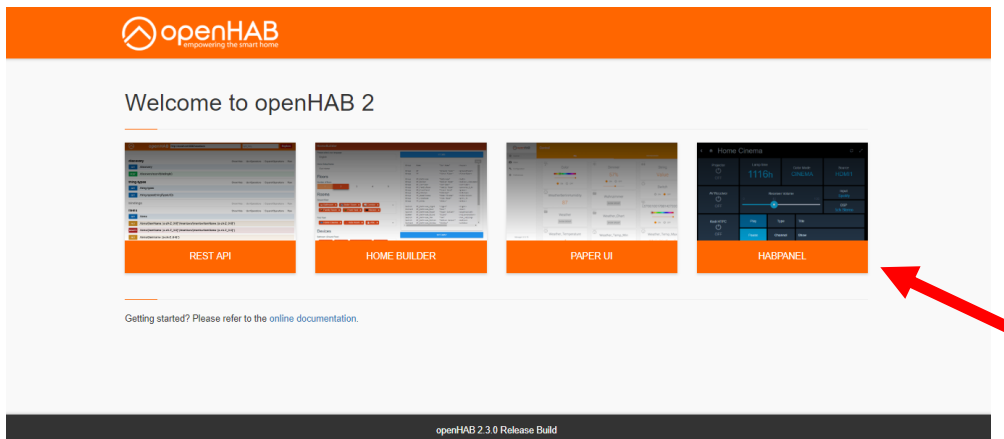
Nome	Ultima modifica	Tipo	Dimensione
addons	20/10/2018 22:35	Cartella di file	
conf	18/11/2018 09:02	Cartella di file	
runtime	20/10/2018 22:57	Cartella di file	
userdata	26/10/2018 10:28	Cartella di file	
LICENSE	28/05/2018 09:56	Documento di testo	11 KB
start	28/05/2018 09:46	File batch Windows	1 KB
start	28/05/2018 09:46	Shell Script	1 KB
start_debug	28/05/2018 09:46	File batch Windows	1 KB
start_debug	28/05/2018 09:46	Shell Script	1 KB

4. Paste the folders copied inside the folder conf (of your OpenHAB2 folder)

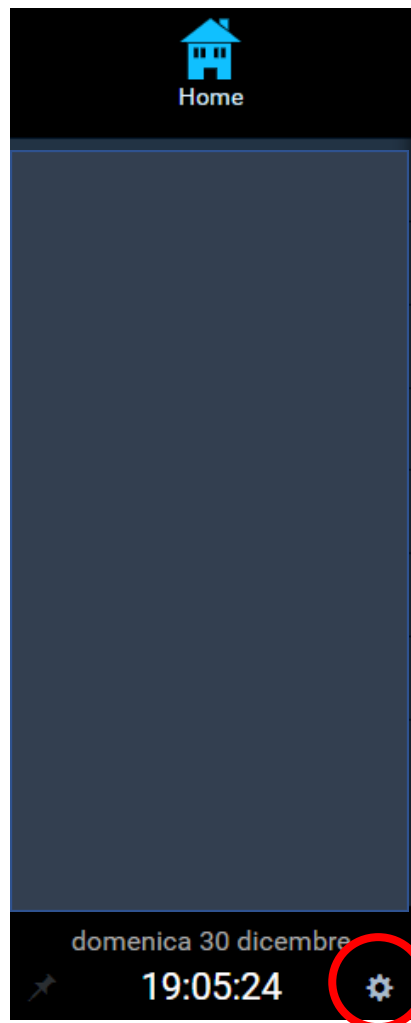
**Now you have all the management system, but you can't control it. Continue these steps to import correctly our HabPanel configuration.**

5. Go to *VirtualSmartHomeproject / OpenhabManagementSystem* and download the **habpanel-config.json** file
6. Open OpenHab in your browser, for example following this link:  
<http://localhost:8080/start/index>

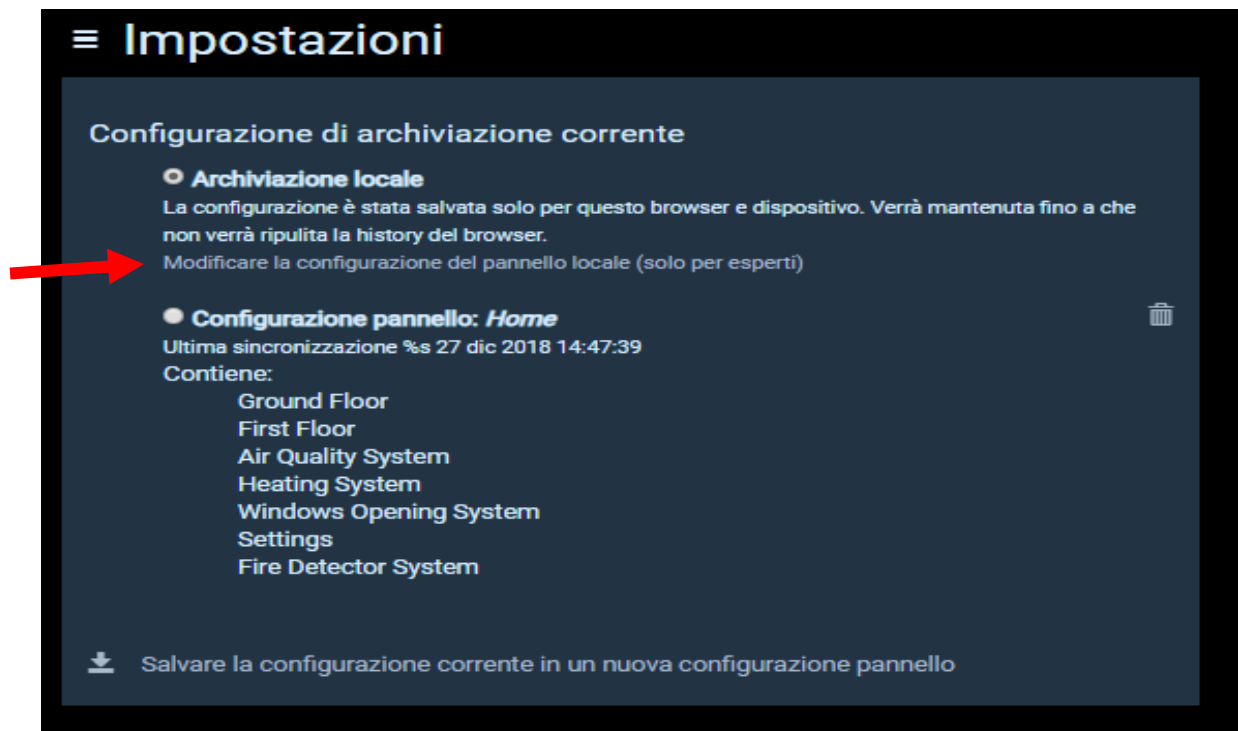
You will see a page like this:



7. Go into HABPANEL, it should be empty.
8. Click on the button menu (on the left of the header)
9. It will open this menu:



10. Click on the settings symbol (circled in the previous image) and it will appear this settings panel:



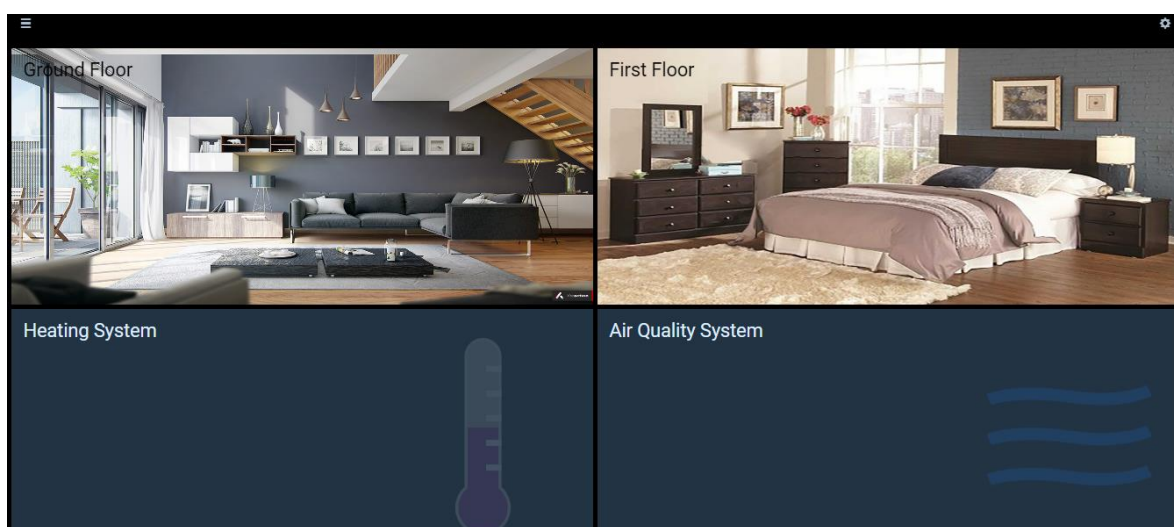
11. Click on the link pointed by the red arrow in the previous image and you will see the following panel:



12. Click on **Import** and then you have to choose the file **habpanel-config.json** that you have just download

13. To confirm this operation you have to click on **Save** button

Now if you return on the initial page of your habpanel you will see this panel:



## What can you do with the Openhab Management System

You can visualize your virtual smart divided by floor and by concern (heating system, air quality system and fire detector system).

In each panel you will find on the top some buttons with whom you can execute some simulations.  
*The simulations you can do differ based on the panel.*

In each panel you can also activate or deactivate the Managing System.

## How to import OpenhabBroker project

1. (In eclipse) File > import > Existing Maven Projects and click on Next
2. In Root Directory insert the path of the project
3. In Projects check /pom.xml
4. Click on Finish
5. Resolve the errors:
  - Right click on project
  - Select Build Path > Configure Build Path...
  - Select Libraris and click on add External JARs...
  - Insert path of OpenhabBroker/external jars
  - Select all jar in the repository
  - Apply and Close

Sometimes, there are some errors in the file OpenhabManagerTest. To solve them import JUnit4 and the other dependencies required

## How to import OpenhabBroker.jar in your project

1. Right click on your project
2. Select Build Path > Configure Build Path...
3. Select Libraris and click on add External JARs...
4. Insert path of the OpenhabBroker.jar and select it
5. Insert path of the jar in the external jars repository and select them
6. Apply and Close

How to use OpenhabBroker

1. You can use our broker service creating an OpenhabManager object through the method `createOpenhabManager(seconds)` or the method `createOpenhabManager()`;  
e.g.

```
OpenhabManager manager = OpenhabManager.createOpenhabManager(2);
```

2. With this object you can invoke the methods:
  - a. startPolling()

- b. stopPolling()
- c. getJson() /getList() / getHashMap()
- d. getStatusFromJson() / getStatus()
- e. setStatus() / sendCommand()

*For more information about these methods download the [MethodsDocumentation.pdf](#) file.*

When you use our OpenhabBroker it creates a log file with all debug, info and warn log. It is saved in this path: C://logs

**In the package test.openhabBroker you can also find an example of utilization of this class.**