

# CityFocus – Installation Manual

## 1) Install Rasdaman

On the server side we have used a debian based linux distribution machine.

The server installation, in this case, is very simple because rasdaman provide deb packages and is possible to follow instruction at this link

<http://www.rasdaman.org/wiki/InstallFromDEB>

Once the rasdaman server is installed it provides a set of bash commands to import and query raster images and implement WCS and WCPS services using a component called Petascope.

The import of the georeferenced images is performed using the `rasimport` command from the command line, passing the parameters depending on the information collected using the `gdalinfo` command on the image.

When imported the images are stored inside a sql lite database like a BLOB.

The WCPS (Web Coverage Processing Services) can provide a representation of the images using a http url passing in a sql like query.

The query is related with the images we uploaded this way is possible to obtain a resulting image considering the weight we give to our choices.

## 2) Install a Web Server

In order to run the application is necessary to install a web server. In our case we decided to use Apache HTTP Server.

It can be downloaded from: <https://httpd.apache.org/download.cgi>

Once installed it will create a “www” folder in our system. Inside this folder we can copy all the files from the CityFocus “Web App” folder.

## 3) Run the WebServer

To use the application you have to run the server, depending on the operative system the command to run it might vary. On a Linux machine, simply open a terminal and type

```
# /etc/init.d/apache2 start
```

The server will now run and will be accessible on <http://localhost/>