Smart

SMART IMPORTER AND PRESTASHOP INFRAESTRUCTURE

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INS SA PALOMERA

ASIR

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# Introduction

## What is Smart importer?

Smart Importer is a tool that imports data and information from an external client to a database in the company.

### Requirements

* Windows or Linux Server
* IIS Service or LAMP server
* MySQL/MariaDB or another database type.
* PHP version 7.0 minimum.
* Recommended to have a DNS service installed and configured.
* The Apache service with version 2.4 minimum.

## Scripting

### Configuration scripts

* **Functions. php**

It is the most complex script, it filters the data that is in the document that you want to import, more in particularly .csv format always when the file has a minimum weight of 1bit.

The second function is the get\_all\_records.

It does a SELECT of some of the specific fields that we have entered.

***Requirements***

* This script is designed to work with products in Prestashop. In the case that you need to add more fields or change the tables that you have. You must change the $sql for something more precise.
* $sql only needs to be changed if you are not working with Prestashop ps\_product table.
* A data file preferably in the .csv format
* **Config.php**

It is the script that helps the Index.php connect to the companies database.

What it does is a simple try that results in yes or no. For more information you can review the documentation that is on the GitHub.

***Requirements***

* $Server Yam = "Server name or IP"
* $username = "Database User (MySQL/MariaDB/etc")
* $password = "Database user password"
* $db = "database name where you want to connect"
* **Index.php**

This is the Smart Importer home page.

For more information on the scripts you can consult the page on GitHub:

<https://github.com/nic1551/Sintesi_ASIR/blob/master/CONFIG/CONFIG.md>

## Dns

### Main area

/etc/bind9/Route

Recommended to make a separate folder to create DNS zones

Picture containing screenshot, monitor, interior, black

Automatically generated descriptionWe declare the domain name, nameservers and aliases.

Figure 1 DNS Primary zone. Nicholas Smart

### 

### Secondary zone

/etc/bind9/

Better known as the inverse zone. We declare the nameserves, hosts and pointers.

Picture containing screen capture, monitor, interior

Automatically generated description

Illustration 2 DNS secondary zone. Nicholas Smart

### Named. conf. local

Where we can declare the main zone, inverse zone and where to get the configuration files.

Picture containing screenshot

Automatically generated description

Figure 3 DNS conf. local area. Nicholas Smart

For more information on the scripts you can consult the page on GitHub:

<https://github.com/nic1551/Sintesi_ASIR/blob/master/DNS/DNS.md>

## 

## Apache

### What is it?

Apache is an HTTP server that can be installed on UNIX and Windows systems. Its main function is hosting.

### Configuration

Requirements:

* **VirtualHost**

The \* represents the IPs (\* = ALL) and the number after the 2 points (:) is the port.

* **Servername**

The server name. Before putting something it is advisable to create the DNS zone, if not there will be conflicts

* **Documentroot**

The root where we can find the main data.

* **DirectoryIndex**

The name of the document you want when we enter the server. There are usually similar ones like index. HTML, index. PHP.

* **< Directory "/CA name" >**

The virtual directory name.

**Optional:**

* **Order**

The order of permissions, the one that goes first will have superiority. In the following case you have denial as priority (Deny)

* **AuthUserFile**

The file where passwords are saved in case you want to configure a .htaccess.

* **AuthName**

Alternate name for the site.

* **AuthType**

Type of authentication.

* **Require valid-user**

The user or group of users who have permissions to enter. You have to use a. htaccess.

* **ErrorDocument "Error Number"**

In case an internal error appears, we can make a custom HTML page. You have to put a number of error (1XX, 2xx, 3xx, 4xx, 5xx) and the path where we have saved the HTML file

* **Allow From All**

You can enter all users both the system and anonymous. It is not recommended except if you have configured well or you are using the Require Valid-User and Order parameters.

* **Options**
* **Require All granted**

Requires all users to be authenticated

* **ErrorLog**

Error log path

* **CustomLog**

Path of detailed error logs



Figure 4 Apache configuration. Nicholas Smart

### Htacces

It's a file where we can store the passwords and settings that we've talked about before. (Require valid-user and AuthUserFile).

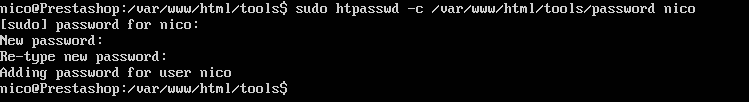


Illustration 5 creating Htaccess. Nicholas Smart

Picture containing screenshot

Automatically generated description

Figure 6. Creation of Htaccess\_2. Nicholas Smart

Picture containing screenshot

Automatically generated description

Illustration 7. Page implemented with Htacces. Nicholas Smart

Picture containing screenshot

Automatically generated description

Illustration 8. Access denied by Htacces. Nicholas Smart

Illustration 9. Logs Error Htacces. Nicholas Smart

## Database

|  |  |
| --- | --- |
| Picture containing text  Automatically generated description  Illustration 10 Prestashop\_1 tables. Nicholas Smart | Picture containing text  Automatically generated description  Figure 11. Prestashop\_2 tables. Nicholas Smart |
| Picture containing text  Automatically generated description  Figure 12. Prestashop\_3 tables. Nicholas Smart | Picture containing text  Automatically generated description  Figure 13. Prestashop\_4 tables. Nicholas Smart |
| Picture containing text  Automatically generated description  Illustration 14. Prestashop\_5 tables. Nicholas Smart | Picture containing text  Automatically generated description  Figure 15. Prestashop\_6 tables. Nicholas Smart |
| Figure 16. Prestashop\_7 tables. Nicholas Smart | |

|  |  |
| --- | --- |
| **Table name** | **Description** |
| Ps\_access | A table containing employee permissions. |
| Ps\_accessory\* |  |
| Ps\_address | Customer, manufacturer and vendor addresses |
| Ps\_address\_format | A code for each country, id\_country. Spain = EN |
| Ps\_admin\_filter\* |  |
| ps\_advice\* |  |
| Ps\_advice\_lang\* |  |
| ps\_alias | Search keyword |
| Ps\_attachment | Name of the products files |
| Ps\_attachment\_lang\* |  |
| Ps\_attribute | Name of product attributes |
| Ps\_attribute\_group | Almost like Ps\_attribute. Group the names. |
| Ps\_attribute\_group\_lang\* |  |
| Ps\_attribute\_group\_shop |  |
| ps\_attribute\_impact\* |  |
| ps\_attribute\_lang | All attributes, colors, sizes, etc. |
| ps\_attribute\_shop\* |  |
| ps\_authorization\_role | Management Roles. Has more priority ps\_access |
| Ps\_badge\* |  |
| Ps\_badge\_lang\* |  |
| Ps\_carrier | Shipping and Transport Topic |
| Ps\_carrier\_group\* |  |
| Ps\_carrier\_lang\* |  |
| Ps\_carrier\_shop | Transportation Pickup |
| Ps\_carrier\_tax\_rules\_group\_shop | Transportation rules |
| Ps\_carrier\_zone | Location area where collected |
| Ps\_cart | It is not recommended to modify the cart |
| Ps\_cart\_cart\_rule\* |  |
| Ps\_cart\_product | Products that are in the basket |
| Ps\_cart\_rule | Shopping Cart Rules |
| Ps\_cart\_rule\_carrier | Transportation company rules for items in the basket |
| Ps\_cart\_rule\_combination\* |  |
| Ps\_cart\_rule\_country | Country from which the customer owns products in the basket |
| Ps\_cart\_rule\_group\* |  |
| Ps\_cart\_rule\_lange\* |  |
| Ps\_cart\_rule\_product\_rule\* |  |
| Ps\_cart\_rule\_product\_rule\_group\* |  |
| Ps\_cart\_rule\_product\_rule\_value\* |  |
| Ps\_cart\_rule\_shop\* |  |
| Ps\_category | It is not advisable to modify this table, it contains different categories. If you have to change you have to do from the Prestashop backend |
| Ps\_category\_group\* |  |
| Ps\_category\_lang | Related to Ps\_category. You don't change. |
| Ps\_category\_product | Related to the products. In no case is it necessary to modify or delete it. |
| Ps\_category\_shop | Modification of the content of the virtual store. Recommended that migrate from the backend of Prestashop |
| Ps\_cms\_category\* |  |
| Ps\_cms\_category\_lang\* |  |
| Ps\_cms\_category\_shop\* |  |
| Ps\_cms\_lang\* |  |
| Ps\_cms\_role\* |  |
| Ps\_cms\_role\_lang\* |  |
| Ps\_cms\_shop\* |  |
| Ps\_condition | SQL attributes. Do not change. |
| Ps\_condition\_advice | Default values that are not touched. |
| Ps\_condition\_badge |
| Ps\_configuration | Main configuration for Prestashop. No touching at all |
| Ps\_configuration\_kpi\* |  |
| Ps\_configuration\_kpi\_lang\* |  |
| Ps\_configuration\_lang\* |  |
| Ps\_connections\* |  |
| Ps\_connections\_page\* |  |
| Ps\_connections\_source\* |  |
| Ps\_contact | Contains the email of the Administrator account |
| Ps\_contact\_lang | Contact pages |
| Ps\_contact\_shop | Relationship to Contacts |
| Ps\_cronjobs | Where cron jobs are saved (cronjobs) |
| Ps\_currency | Set up store coins (euros, pounds, dollars etc). |
| Ps\_currency\_shop\* |  |
| Ps\_customer | Customer-related data |
| Ps\_customer\_group\* |  |
| Ps\_customer\_message\* |  |
| Ps\_customer\_message\_sync\_imap\* |  |
| Ps\_customer\_thread\* |  |
| Ps\_customization\* |  |
| Ps\_customization\_field\* |  |
| Ps\_customization\_field\_lang\* |  |
| Ps\_customized\_data\* |  |
| Ps\_date\_range\* |  |
| Ps\_delivery | Values on delivery |
| Ps\_emailsubscription\* |  |
| Ps\_employee | Contains administrator data normally encrypted with MD5 or SHA1 |
| Ps\_employee\_shop\* |  |
| Ps\_feature | Product-related data |
| Ps\_feature\_lang | More specific product data. Weight, properties... |
| Ps\_feature\_product\* |  |
| Ps\_feature\_shop\* |  |
| Ps\_feature\_value | Product values related to weight, height etc |
| Ps\_feature\_value\_lang | So that the products are available in different languages |
| Ps\_gender | Very simple. 2 values. Male and female |
| Ps\_gender\_lang\* |  |
| Ps\_group | Information related to the status of users, guests. |
| Ps\_group\_lang | Different languages for users |
| Ps\_group\_reduction\* |  |
| Ps\_group\_shop\* |  |
| Ps\_guest | Guest data |
| Ps\_homeslider | Home Page Slider Information |
| Ps\_homeslider\_slides | More Slider values |
| Ps\_homeslider\_slides\_lang | You have to modify it from the Prestashop backend |
| Ps\_hook | Module and menu positions. Admin position modules.🡪🡪 |
| Ps\_hook\_alias\* |  |
| Ps\_hook\_module\* |  |
| Ps\_hooke\_module\_exceptions\* |  |
| Ps\_image | Many values on the images. |
| Ps\_image\_lang | Many values on images and language |
| Ps\_image\_shop\* |  |
| Ps\_image\_type | Image Type Information |
| Ps\_import\_match\* |  |
| Ps\_info\* |  |
| Ps\_info\_lang\* |  |
| Ps\_info\_shop\* |  |
| Ps\_lang | Languages that come out in our Prestashop |
| Ps\_lang\_shop\* |  |
| Ps\_layered\_category\* |  |
| Ps\_layered\_filter\* |  |
| Ps\_layered\_filter\_shop\* |  |
| Ps\_layered\_indexable\_attribute\_group\* |  |
| Ps\_layered\_indexable\_attribute\_group\_lang\_value\* |  |
| Ps\_layered\_indexable\_attribute\_lang\_value\* |  |
| Ps\_layered\_indexable\_feature\* |  |
| Ps\_layered\_indexable\_feature\_lang\_value\* |  |
| Ps\_layered\_indexable\_feature\_value\_lang\_value\* |  |
| Ps\_layered\_price\_index | It contains all the prices of the products of the store |
| Ps\_layered\_product\_attribute\* |  |
| Ps\_link\_block\* |  |
| Ps\_link\_block\_lang\* |  |
| Ps\_link\_block\_shop\* |  |
| Ps\_linksmenutop\* |  |
| Ps\_linksmenutop\_lang\* |  |
| Ps\_log | Information on the location of Prestashop logs |
| Ps\_mail\* |  |
| Ps\_manufacturer | Provider Information |
| Ps\_manufacturer\_lang\* |  |
| Ps\_manufacturer\_shop\* |  |
| Ps\_memcached\_servers\* |  |
| Ps\_message\* |  |
| Ps\_message\_readed\* |  |
| Ps\_meta | Store meta information, main pages, contact, Sitemap |
| Ps\_meta\_lang | Same as Ps\_meta but for different languages |
| Ps\_module | Names and information about the modules |
| Ps\_module\_access | Modules-related values |
| Ps\_module\_carrier\* |  |
| Ps\_module\_country | Values related to the modules and different countries. |
| Ps\_module\_currency | Coin and coin Modules |
| Ps\_module\_group\* |  |
| Ps\_module\_history\* |  |
| Ps\_module\_preference\* |  |
| Ps\_module\_shop | Information about module values |
| Ps\_operating\_system | Information on a list of supported operating systems and most used by users |
| Ps\_order\_carrier | Transport options |
| Ps\_order\_cart\_rule\* |  |
| Ps\_order\_detail | Store defect Values |
| Ps\_order\_detail\_tax\* |  |
| Ps\_order\_history | Customer Purchase history Information |
| Ps\_order\_invoice\* |  |
| Ps\_order\_invoice\_payment\* |  |
| Ps\_order\_invoice\_tax\* |  |
| Ps\_order\_message | Message confirming the order |
| Ps\_order\_message\_lang | Same as Ps\_order\_message but for different languages |
| Ps\_order\_payment\* |  |
| Ps\_order\_return\* |  |
| Ps\_order\_return\_detail\* |  |
| Ps\_order\_return\_state | CSS values |
| Ps\_order\_return\_state\_lang | More CSS values |
| Ps\_order\_slip\* |  |
| Ps\_order\_slip\_detail\* |  |
| Ps\_order\_slip\_detail\_tax\* |  |
| Ps\_order\_state\* |  |
| Ps\_order\_state\_lang | Contains order language information |
| Ps\_orders\* |  |
| Ps\_pack\* |  |
| Ps\_page | Related to Prestashop products. Contains important values |
| Ps\_page\_type\* |  |
| Ps\_page\_viewed\* |  |
| Ps\_pagenotfound\* |  |
| Ps\_product | Contains the content of Prestashop products. It's also the table that works SmartImporter |
| Ps\_product\_attachment |  |
| Ps\_product\_attribute |  |
| Ps\_product\_attribute\_combination |  |
| Ps\_product\_attribute\_image |  |
| Ps\_product\_attribute\_sjop |  |
| Ps\_product\_carrier |  |
| Ps\_product\_country\_tax |  |
| Ps\_product\_download |  |
| Ps\_product\_group\_reduction\_cache |  |
| Ps\_product\_lang |  |
| Ps\_product\_sale |  |
| Ps\_product\_shop |  |
| Ps\_product\_supplier |  |
| Ps\_product\_tag |  |
| Ps\_profile |  |
| Ps\_profile\_lang | Contains access values |
| Ps\_quick\_access | Links |
| Ps\_quick\_access\_lang | Links languages |
| Ps\_range\_price | Product pricing Information |
| Ps\_range\_weight |  |
| Ps\_reassurance |  |
| Ps\_reassurance\_lang |  |
| Ps\_referrer |  |
| Ps\_referrer\_cache |  |
| Ps\_referrer\_shop |  |
| Ps\_referrer\_sql |  |
| Ps\_required\_field |  |
| Ps\_risk |  |
| Ps\_risk\_lang |  |
| Ps\_search\_engine | Information on the SEO and search engine |
| Ps\_search\_index | Saves the indexes of the products. |
| Ps\_search\_word | Default words |
| Ps\_sekeyword |  |
| Ps\_shop | Access to the main web page |
| Ps\_shop\_group | Access to the main web page |
| Ps\_shop\_url | Access to the main web page |
| Ps\_smarty\_cache |  |
| Ps\_smarty\_last\_flush | Logs |
| Ps\_smarty\_lazy\_cache | More detailed Logs |
| Ps\_specific\_price |  |
| Ps\_specific\_price\_priority |  |
| Ps\_specific\_price\_rule |  |
| Ps\_specific\_price\_rule\_condition |  |
| Ps\_specific\_price\_rule\_condition\_group |  |
| Ps\_state | It contains information about provinces and countries. |
| Ps\_statssearch | It contains a log of the products that have been searched and how many times each one has been searched. |
| Ps\_Stock |  |
| Ps\_stock\_available | Contains values on all store stocks |
| Ps\_stock\_mvt |  |
| Ps\_stock\_mvt\_reason |  |
| Ps\_stock\_mvt\_reason\_lang |  |
| Ps\_store |  |
| Ps\_store\_lang |  |
| Ps\_store\_shop |  |
| Ps\_supply\_order |  |
| Ps\_supply\_order\_detail |  |
| Ps\_supply\_order\_history |  |
| Ps\_supply\_order\_receipt\_history |  |
| Ps\_supply\_order\_state |  |
| Ps\_supply\_order\_state\_lang |  |
| Ps\_tab |  |
| Ps\_tab\_advice |  |
| Ps\_tab\_lang |  |
| Ps\_tab\_module\_prefernce |  |
| Ps\_tag |  |
| Ps\_tag\_count |  |
| Ps\_tax | Values on the different types of VAT |
| Ps\_tax\_lang | Language template for Ps\_tax |
| Ps\_tax\_rule | Values that are related to Ps\_tax |
| Ps\_tax\_rules\_group | Values that are related to Ps\_tax |
| Ps\_tax\_rules\_group\_shop | Values that are related to Ps\_tax |
| Ps\_timezone | A list of time zones. |
| Ps\_translation |  |
| Ps\_warehouse |  |
| Ps\_warehouse\_carrier |  |
| Ps\_warehouse\_product\_location |  |
| Ps\_warehouse\_shop |  |
| Ps\_web\_browser | List of the most used browsers of the clients |
| Ps\_webservice\_account |  |
| Ps\_webservice\_account\_shop |  |
| Ps\_webserice\_permission |  |
| Ps\_zone | Information on areas |
| Ps\_zone\_shop | More detailed information of Ps\_zone |

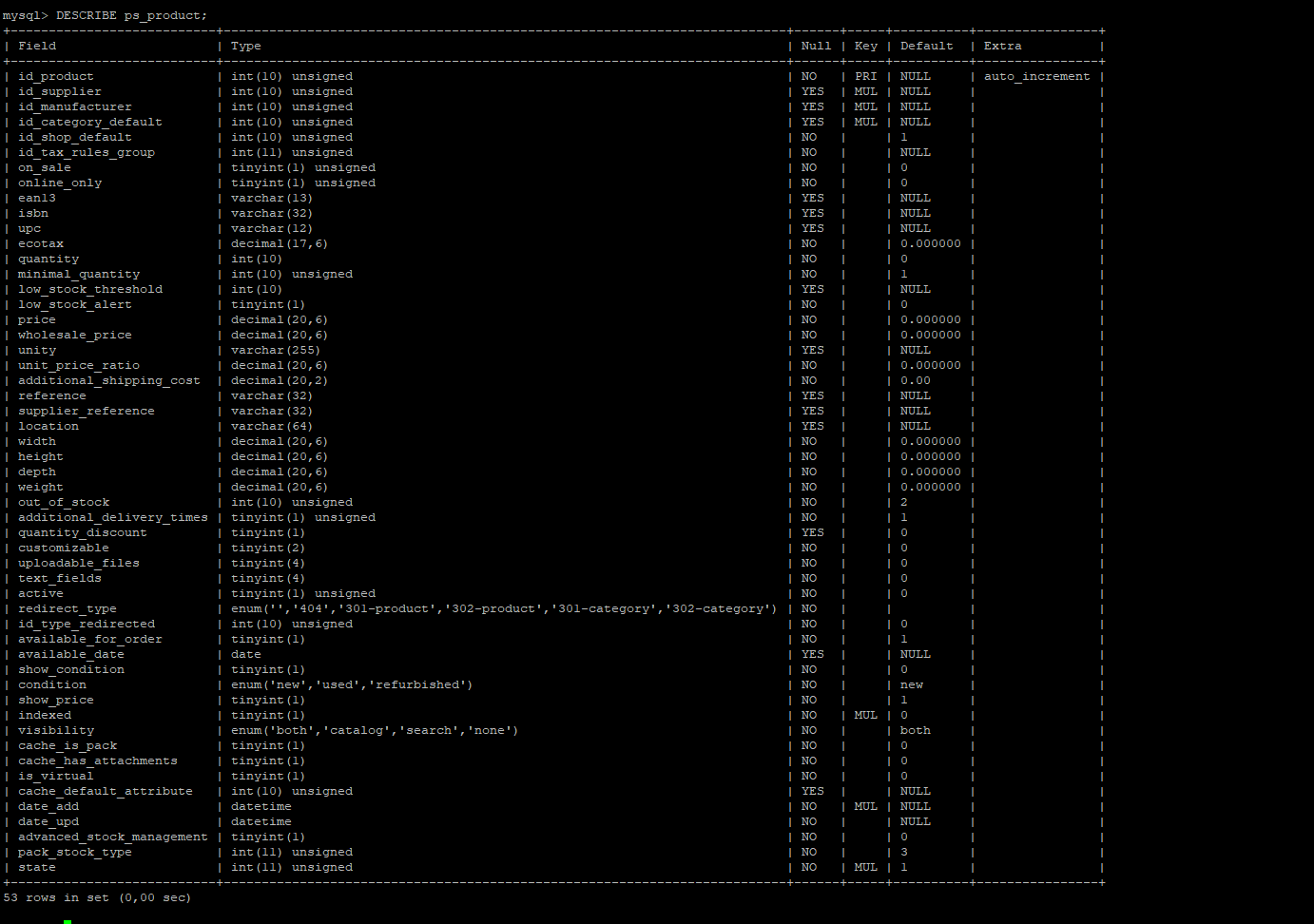


Figure 17. A summary of the PS\_PRODUCTE table. Nicholas Smart

|  |  |
| --- | --- |
| Table name | Description |
| Id\_product | The product identifier |
| Id\_supplier | The Vendor ID |
| Id\_manufacturer | The manufacturer's identifier |
| Id\_category\_default | The default category identifier |
| Id\_shop\_default | The default store identifier |
| Id\_tax\_rules\_group | The identifiers of the VAT rules related to the product |
| On\_sale | If the product is in the sales |
| Online\_only | If the product is exclusive for online sale |
| Ean13 | A 13-digit code accompanied by a barcode. Help relates the name to a fast id\_product |
| Isbn | The code in manuals or books |
| Upc | Universal Product Codes |
| Ecotax | VAT for hazardous products to the environment |
| Quantity | Quantity of the same product that we have in stock |
| Minimal\_quantity | Minimum stock Quantity |
| Low\_Stock\_threshold | Message to warn when stock is low |
| Low\_Stock\_alert | Value to define that is the lowest stock low |
| Price | Price we paid to the provider |
| Wholesale\_price | Public sale Price |
| Unity | Unit Price |
| Unit\_price\_ratio | Unit Price Ratio |
| Additional\_shipping\_cost | Transport price |
| Reference | Internal reference that the product has |
| Supplier\_reference | Vendor-related Internal reference |
| Location | Location |
| Height | Product height |
| Depth | Depth of product |
| Width | Product width |
| Out\_of\_Stock | We mark if we do not have more stock of the product |
| Additional\_delivery\_times | Approximate timetable for carriers |
| Quantity\_discount | Discount for purchase in quantity |
| Customizable | If the product is customizable |
| Uploadable\_files | Files that normally contain images about the product that we can upload to the web |
| Text\_fields | Text fields related to product information. |
| Active | If the product is active it comes out visible to the public |
| Redirect\_type | An enum. Error number if the page is not available. 203, 301, 404 etc |
| Id\_type\_redirected | Message depends on code you received in Redirect\_type |
| Available\_for\_order | If the product is available to book or buy online |
| Available\_date | Date when the product is available in both the online store and the physical. |
| Show\_condition | Message containing a value of the product condition based on the value that is in condition |
| Condition | New, reformed, refurbished |
| Show\_price | Price available |
| Indexed | If the product is indexed |
| Visibility | If this active the product is visible. Same as active but active field has higher priority |
| Cache\_is\_pack |  |
| Cahce\_has\_attachments |  |
| Is\_virtual | If the product is only virtual |
| Cache\_default\_attribute |  |
| Date\_add | Date when a user with permissions has modified the product |
| Date\_upd | Date when a user with permissions has modified the product |
| Advanced\_stock\_managment |  |
| Pack\_stock\_type |  |
| State | Status (no stock, stock, etc.) |

Above we have an image of the ps\_product table. It is the main table that works with SmartImporter.

## Web

### Prestashop

### What is it?

It is an open-source software that is written in PHP with additional support for MySQL. It was founded in 2007 in Paris, France. Prestashop is currently used in approximately 250,000 stores worldwide (almost 10% of the world) and is available in 60 different languages

[](https://www.google.com/url?sa=i&source=images&cd=&ved=2ahUKEwi0kfu7-LviAhXE2eAKHfQBDWoQjRx6BAgBEAU&url=https%3A%2F%2Fwww.seoxan.es%2Fprogramacion-web-ecommerce%2Fprestashop-logo%2F&psig=AOvVaw0SBT27grFD8cyHjme2HS5g&ust=1559054423422257)1

Illustration 18 image thanks to Seoxan.com.

[Picture containing screenshot

Automatically generated description](http://646CD3EF49653BC07E928509629163E718BA74A1/%28https%3A%2Fwww.google.com%2Furl%3Fsa%3Di%26source%3Dimages%26cd%3D%26ved%3D2ahUKEwiWyuS097viAhUQoRQKHT4DBCEQjRx6BAgBEAU%26url%3Dhttps%253A%252F%252Fwww.qeretail.com%252Fblog%252F13-key-considerations-when-choosing-best-ecommerce-platform%252Fplatform-market-share-2%252F%26psig%3DAOvVaw2gxBv9K5anndTO-WQ2IcyI%26ust%3D1559054019924451%29)

Figure 19. Image thanks to Queretail.com.

### Why Prestashop?

Prestashop is the third most used world-wide. The reason why I chose this CMS is because in my studies we have seen and used it insufficiently enough. And the other reason is in the company where I am working and many more in the world use Prestashop. It has a lot of potential and with time and patience it could be used for many things with it. The third reason because I chose this CMS is because it is already designed with PHP and is intended to ease and smooth over operations with SQL. Of which My importer uses both PHP and MySQL.

### Prestashop Infrastructure

### Requirements

* A domain name (DNS)
* Apache WEB Server 1.3 Minimum, Nginx, or Microsoft IIS
* PHP version 5.2 minimum.
* MySQL version 5.0 minimum with a database created exclusively for the Prestashop.
* Recommended an SSH or FTP access to request connection data.

## Nginx

### What is it?

It is an open source software dedicated to Web server, proxy, reverse proxy and load balancer.

[](https://www.google.com/url?sa=i&source=images&cd=&ved=2ahUKEwjdisje-rviAhVvAWMBHTkZBV0QjRx6BAgBEAU&url=https%3A%2F%2Fwww.nginx.com%2F&psig=AOvVaw0ARQ13X0neLXiT0kNLxNtv&ust=1559055035901268)

Illustration 20. NGINX Logo. Thanks to www.nginx.com

### Scripts

* Smart Importer:

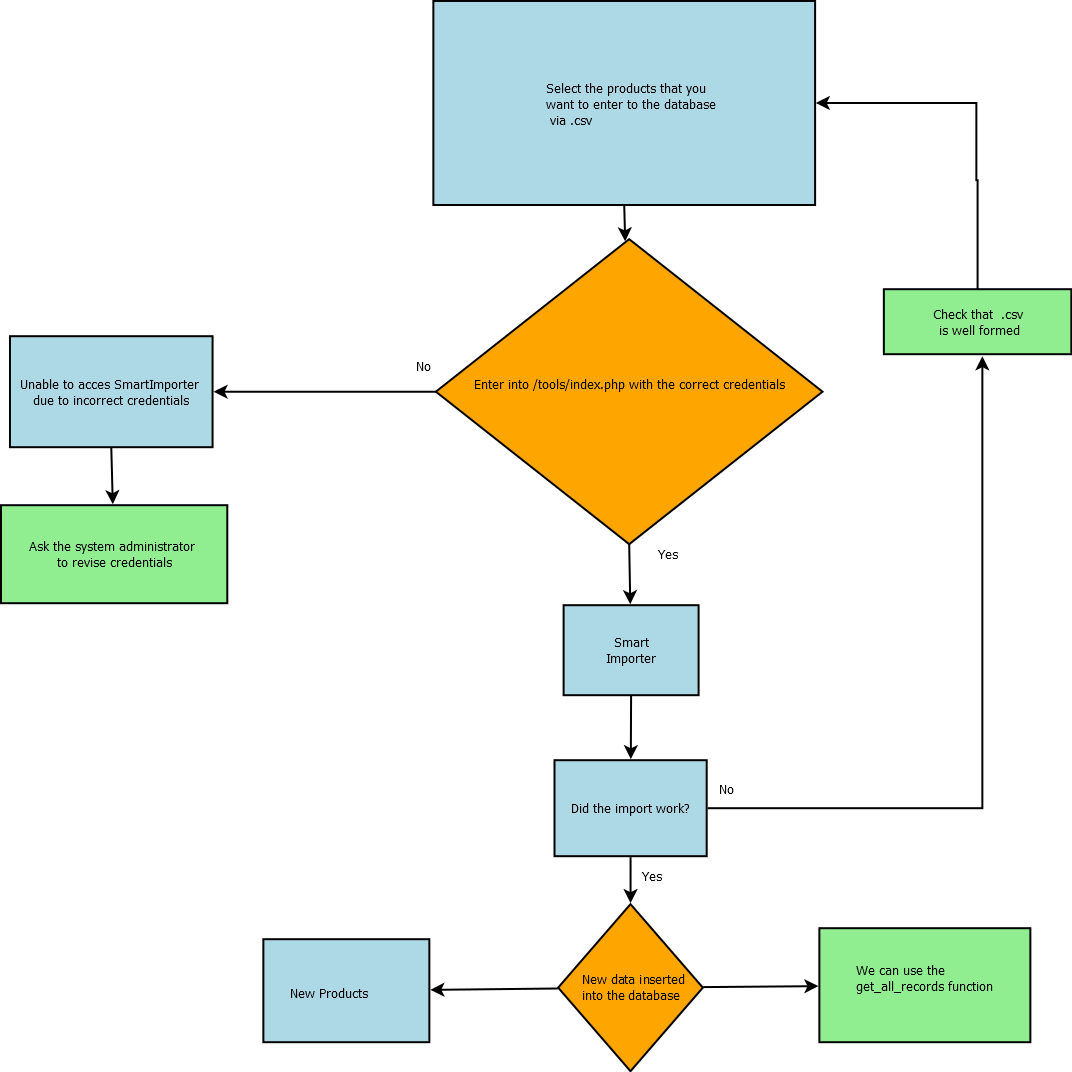


Figure 21. SmartImporter design. Nicholas Smart

* NGINX scheme

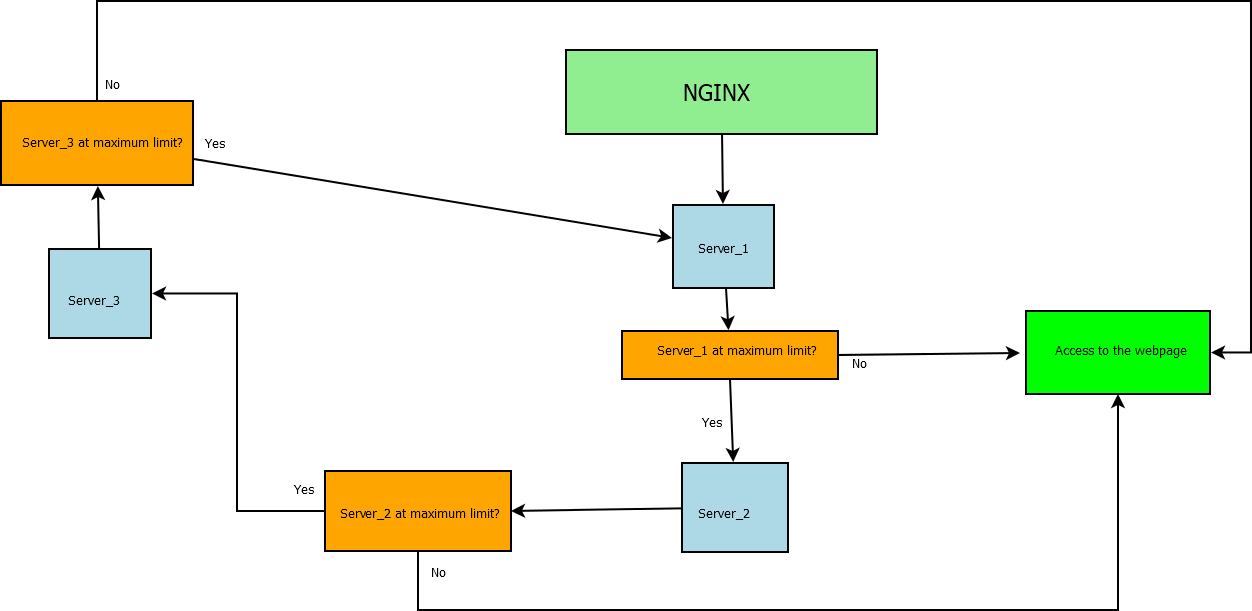


Figure 22. Nginx schema. Nicholas Smart

## Problems I have had in this project and improvements

* I wanted to make a script that allows the import of more formats apart from. csv As for example the. xml,. JSON
  + Unfortunately not enough time

|  |  |
| --- | --- |
| Name | Hours dedicated approximately |
| DNS ZONE | 1H |
| Prestashop Installation | 2H |
| Creating the SmartImporter Script | 2months (approx. 40 – 50hours) |
| Apache Installation and Configuration | 3-4 hours |
| Htacces | 10mins |
| Installing and configuring NGINX | 2-3 hours |
| Scripts | 6 – 10 hours approximately |
| Installing and configuring MySQL | 3-4 hours |

## Table of Illustrations

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[Figure 6. Creation of Htaccess\_2. Nicholas Smart 7](#_Toc9882464)

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## Webgraphy

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