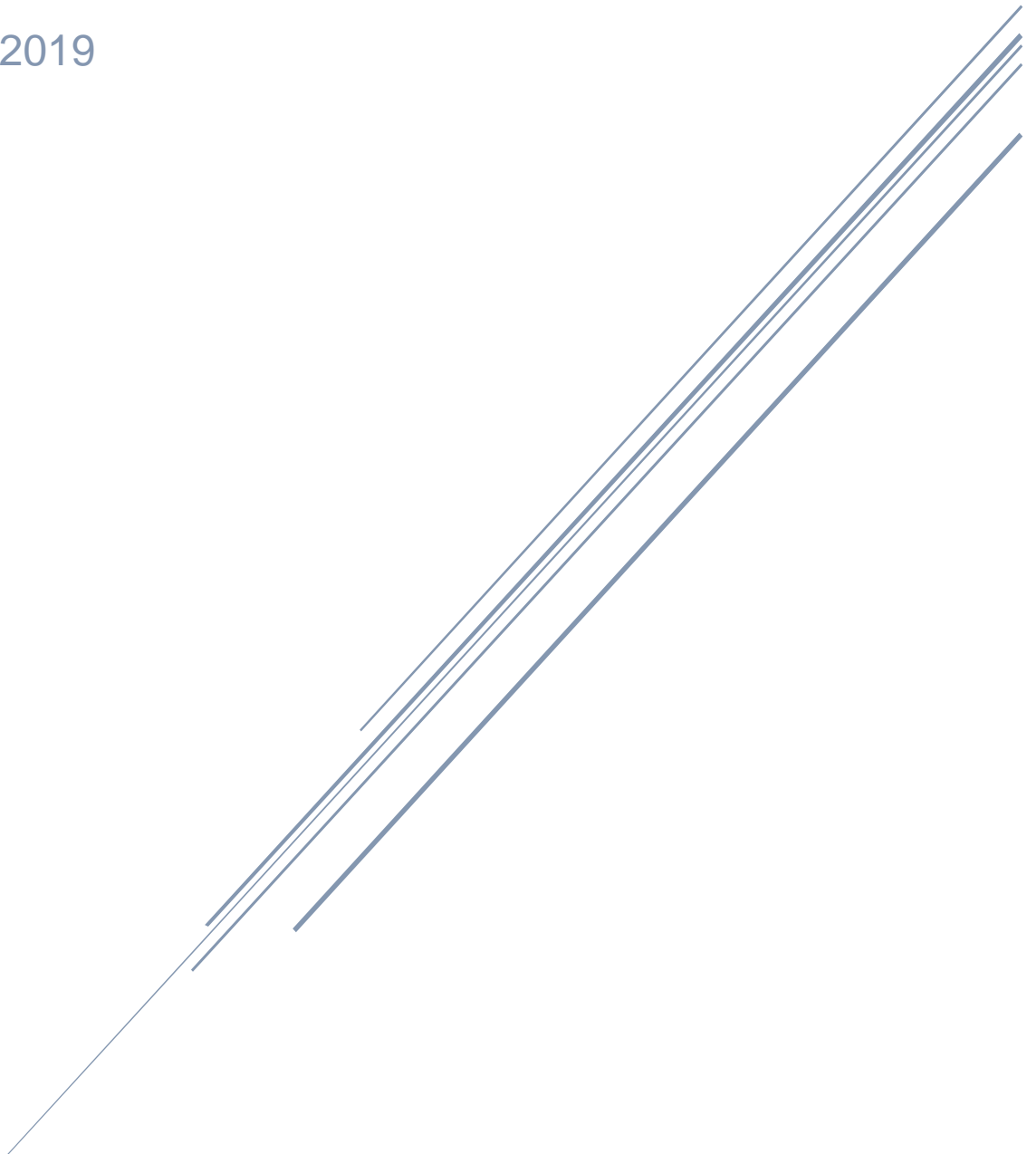


SMART IMPORTER AND PRESTASHOP INFRAESTRUCTURE

NICHOLAS SMART

29/05/2019



INS SA PALOMERA
ASIR

Robert Ventura
Josep Garcia Camara

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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 particular .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

We declare the domain name, nameservers and aliases.

```
GNU nano 2.5.3          Archivo: zones/db.smartfix.com
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      Prestashop.smartfix.com. nico.smartfix.com. (
                                1          ; Serial
                                604800     ; Refresh
                                86400      ; Retry
                                2419200    ; Expire
                                604800 )   ; Negative Cache TTL
;
; NAMESERVERS
@         IN      NS       Prestashop.smartfix.com.
Prestashop.smartfix.com. IN      A       192.168.50.60
www       IN      CNAME    Prestashop.smartfix.com.
```

Figure 1 DNS Primary zone. Nicholas Smart

Secondary zone

/etc/bind9/

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

```
GNU nano 2.5.3          Archivo: zones/smartfix.rev
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      Prestashop.smartfix.com. nico.smartfix.com. (
; Serial
; Refresh
; Retry
; Expire
; Negative Cache TTL
;
@         IN      NS       Prestashop.smartfix.com.
60        IN      PTR      Prestashop.smartfix.com.
```

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.

```
GNU nano 2.5.3          Archivo: named.conf.local
//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "smartfix.com" {
    type master;
    file "/etc/bind/zones/db.smartfix.com";
};

zone "0.50.168.192.in-addr.arpa" {
    type master;
    file "/etc/bind/zones/smartfix.rev";
};
```

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

```

VirtualHost *:80>
#ServerAdmin admin@your-domain.com
ServerName www.smartfix.com
ServerAlias www.smartfix.com
DocumentRoot /var/www/html/prestashop

    <Directory /var/www/html/prestashop>
        Options +FollowSymlinks
        AllowOverride All
        Require all granted
    </Directory>

    Alias /tools "/var/www/html/tools"
    <Directory "/var/www/html/tools">
        Order deny,allow
        AuthUserFile "/var/www/html/tools/password"
        AuthName "Virus"
        AuthType Basic
        Require valid-user
        ErrorDocument 401 /var/www/html/pages/401.html
        DirectoryIndex index.php
        Allow from all
    </Directory>
    ErrorDocument 403 "/var/www/html/pages/401.html"

ErrorLog /var/log/apache2/prestashop-error_log
CustomLog /var/log/apache2/prestashop-access_log common
</VirtualHost>

```

Figure 4 Apache configuration. Nicholas Smart

Htaccses

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

```

nico@Prestashop:/var/www/html/tools$ sudo htpasswd -c /var/www/html/tools/password nico
[sudo] password for nico:
New password:
Re-type new password:
Adding password for user nico
nico@Prestashop:/var/www/html/tools$

```

Illustration 5 creating Htaccess. Nicholas Smart

```

GNU nano 2.5.3      Archivo: /var/www/html/tools/password
nico:$apr1$ctS.zDb7$5Y82thQWmd3hWiIe3sKvA1

```

Figure 6. Creation of Htaccess_2. Nicholas Smart

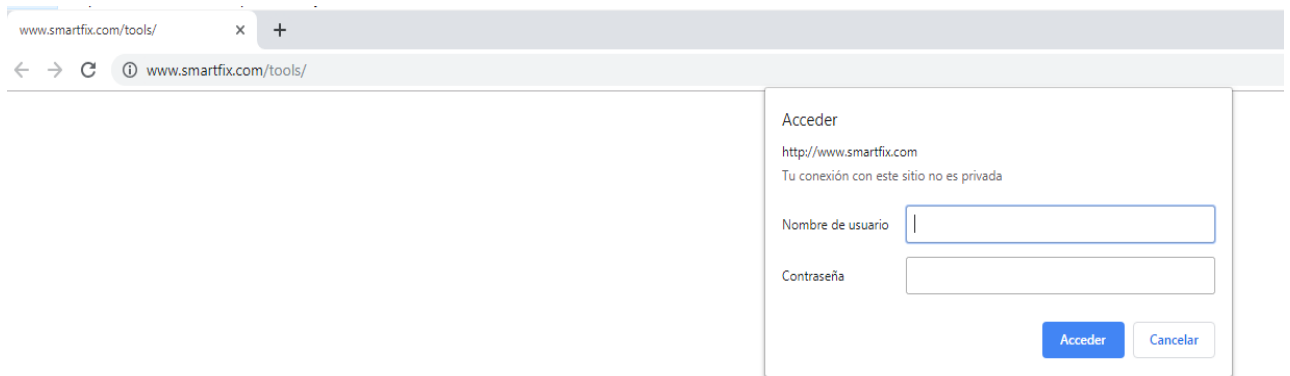


Illustration 7. Page implemented with Htaccess. Nicholas Smart

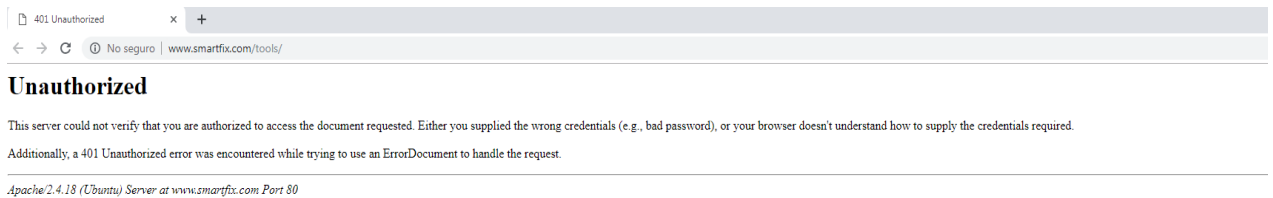


Illustration 8. Access denied by Htaccess. Nicholas Smart

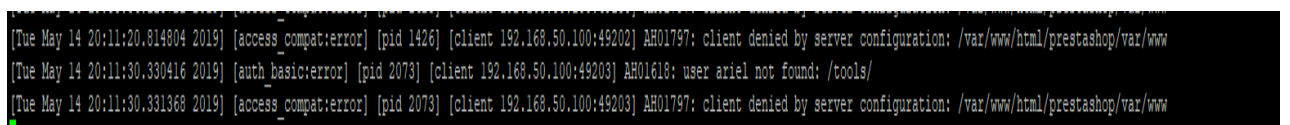


Illustration 9. Logs Error Htaccess. Nicholas Smart

Database

```
mysql> SHOW TABLES;
+-----+
| Tables_in_prestashop |
+-----+
| ps_access              |
| ps_accessory           |
| ps_address             |
| ps_address_format      |
| ps_admin_filter        |
| ps_advice              |
| ps_advice_lang         |
| ps_alias               |
| ps_attachment          |
| ps_attachment_lang     |
| ps_attribute           |
| ps_attribute_group     |
| ps_attribute_group_lang |
| ps_attribute_group_shop |
| ps_attribute_impact    |
| ps_attribute_lang      |
| ps_attribute_shop      |
| ps_authorization_role  |
| ps_badge               |
| ps_badge_lang          |
| ps_carrier             |
| ps_carrier_group       |
| ps_carrier_lang        |
| ps_carrier_shop        |
| ps_carrier_tax_rules_group_shop |
| ps_carrier_zone        |
| ps_cart                |
| ps_cart_cart_rule      |
| ps_cart_product        |
| ps_cart_rule           |
| ps_cart_rule_carrier   |
| ps_cart_rule_combination |
| ps_cart_rule_country   |
| ps_cart_rule_group     |
| ps_cart_rule_lang      |
| ps_cart_rule_product_rule |
| ps_cart_rule_product_rule_group |
| ps_cart_rule_product_rule_value |
```

Illustration 10 Prestashop_1 tables. Nicholas Smart

```
| ps_cart_rule_shop
| ps_category
| ps_category_group
| ps_category_lang
| ps_category_product
| ps_category_shop
| ps_cms
| 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
| ps_condition_advice
| ps_condition_badge
| ps_configuration
| ps_configuration_kpi
| ps_configuration_kpi_lang
| ps_configuration_lang
| ps_connections
| ps_connections_page
| ps_connections_source
| ps_contact
| ps_contact_lang
| ps_contact_shop
| ps_country
| ps_country_lang
| ps_country_shop
| ps_cronjobs
| ps_currency
| ps_currency_shop
| ps_customer
| 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
```

Figure 11. Prestashop_2 tables. Nicholas Smart

```

ps_emailsubscription
ps_employee
ps_employee_shop
ps_feature
ps_feature_lang
ps_feature_product
ps_feature_shop
ps_feature_value
ps_feature_value_lang
ps_gender
ps_gender_lang
ps_group
ps_group_lang
ps_group_reduction
ps_group_shop
ps_guest
ps_homeslider
ps_homeslider_slides
ps_homeslider_slides_lang
ps_hook
ps_hook_alias
ps_hook_module
ps_hook_module_exceptions
ps_image
ps_image_lang
ps_image_shop
ps_image_type
ps_import_match
ps_info
ps_info_lang
ps_info_shop
ps_lang
ps_lang_shop
ps_layered_category
ps_layered_filter
ps_layered_filter_shop
ps_layered_indexable_attribute_gr
ps_layered_indexable_attribute_gr
ps_layered_indexable_attribute_la
ps_layered_indexable_feature
ps_layered_indexable_feature_lang
ps_layered_indexable_feature_valu
ps_layered_price_index
ps_layered_product_attribute

```

Figure 12. Prestashop_3 tables. Nicholas Smart

```

ps_link_block
ps_link_block_lang
ps_link_block_shop
ps_linksmenutop
ps_linksmenutop_lang
ps_log
ps_mail
ps_manufacturer
ps_manufacturer_lang
ps_manufacturer_shop
ps_memcached_servers
ps_message
ps_message_readed
ps_meta
ps_meta_lang
ps_module
ps_module_access
ps_module_carrier
ps_module_country
ps_module_currency
ps_module_group
ps_module_history
ps_module_preference
ps_module_shop
ps_operating_system
ps_order_carrier
ps_order_cart_rule
ps_order_detail
ps_order_detail_tax
ps_order_history
ps_order_invoice
ps_order_invoice_payment
ps_order_invoice_tax
ps_order_message
ps_order_message_lang
ps_order_payment
ps_order_return
ps_order_return_detail
ps_order_return_state
ps_order_return_state_lang
ps_order_slip
ps_order_slip_detail
ps_order_slip_detail_tax
ps_order_state

```

Figure 13. Prestashop_4 tables. Nicholas Smart

```

| ps_order_state_lang
| ps_orders
| ps_pack
| ps_page
| ps_page_type
| ps_page_viewed
| ps_pagenotfound
| ps_product
| ps_product_attachment
| ps_product_attribute
| ps_product_attribute_combination
| ps_product_attribute_image
| ps_product_attribute_shop
| 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
| ps_quick_access
| ps_quick_access_lang
| ps_range_price
| ps_range_weight
| ps_reassurance
| ps_reassurance_lang
| ps_referrer
| ps_referrer_cache
| ps_referrer_shop
| ps_request_sql
| ps_required_field
| ps_risk
| ps_risk_lang
| ps_search_engine
| ps_search_index
| ps_search_word
| ps_sekeyword
| ps_shop
| ps_shop_group
| ps_shop_url

```

Illustration 14. Prestashop_5 tables. Nicholas Smart

```

| ps_smarty_cache
| ps_smarty_last_flush
| ps_smarty_lazy_cache
| ps_specific_price
| ps_specific_price_priority
| ps_specific_price_rule
| ps_specific_price_rule_condition
| ps_specific_price_rule_condition
| ps_state
| ps_statssearch
| ps_stock
| ps_stock_available
| ps_stock_mvt
| ps_stock_mvt_reason
| ps_stock_mvt_reason_lang
| ps_store
| ps_store_lang
| ps_store_shop
| ps_supplier
| ps_supplier_lang
| ps_supplier_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_preference
| ps_tag
| ps_tag_count
| ps_tax
| ps_tax_lang
| ps_tax_rule
| ps_tax_rules_group
| ps_tax_rules_group_shop
| ps_timezone
| ps_translation
| ps_warehouse
| ps_warehouse_carrier
| ps_warehouse_product_location
| ps_warehouse_shop

```

Figure 15. Prestashop_6 tables. Nicholas Smart

```

| ps_web_browser
| ps_webservice_account
| ps_webservice_account_shop
| ps_webservice_permission
| ps_zone
| ps_zone_shop
| tester
+-----+
265 rows in set (0,00 sec)

```

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

```
mysql> DESCRIBE ps_product;
```

Field	Type	Null	Key	Default	Extra
id_product	int(10) unsigned	NO	PRI	NULL	auto_increment
id_supplier	int(10) unsigned	YES	MUL	NULL	
id_manufacturer	int(10) unsigned	YES	MUL	NULL	
id_category_default	int(10) unsigned	YES	MUL	NULL	
id_shop_default	int(10) unsigned	NO		1	
id_tax_rules_group	int(11) unsigned	NO		NULL	
on_sale	tinyint(1) unsigned	NO		0	
online_only	tinyint(1) unsigned	NO		0	
ean13	varchar(13)	YES		NULL	
isbn	varchar(32)	YES		NULL	
upc	varchar(12)	YES		NULL	
ecotax	decimal(17,6)	NO		0.000000	
quantity	int(10)	NO		0	
minimal_quantity	int(10) unsigned	NO		1	
low_stock_threshold	int(10)	YES		NULL	
low_stock_alert	tinyint(1)	NO		0	
price	decimal(20,6)	NO		0.000000	
wholesale_price	decimal(20,6)	NO		0.000000	
unity	varchar(255)	YES		NULL	
unit_price_ratio	decimal(20,6)	NO		0.000000	
additional_shipping_cost	decimal(20,2)	NO		0.00	
reference	varchar(32)	YES		NULL	
supplier_reference	varchar(32)	YES		NULL	
location	varchar(64)	YES		NULL	
width	decimal(20,6)	NO		0.000000	
height	decimal(20,6)	NO		0.000000	
depth	decimal(20,6)	NO		0.000000	
weight	decimal(20,6)	NO		0.000000	
out_of_stock	int(10) unsigned	NO		2	
additional_delivery_times	tinyint(1) unsigned	NO		1	
quantity_discount	tinyint(1)	YES		0	
customizable	tinyint(2)	NO		0	
uploadable_files	tinyint(4)	NO		0	
text_fields	tinyint(4)	NO		0	
active	tinyint(1) unsigned	NO		0	
redirect_type	enum('', '404', '301-product', '302-product', '301-category', '302-category')	NO			
id_type_redirected	int(10) unsigned	NO		0	
available_for_order	tinyint(1)	NO		1	
available_date	date	YES		NULL	
show_condition	tinyint(1)	NO		0	
condition	enum('new', 'used', 'refurbished')	NO		new	
show_price	tinyint(1)	NO		1	
indexed	tinyint(1)	NO	MUL	0	
visibility	enum('both', 'catalog', 'search', 'none')	NO		both	
cache_is_pack	tinyint(1)	NO		0	
cache_has_attachments	tinyint(1)	NO		0	
is_virtual	tinyint(1)	NO		0	
cache_default_attribute	int(10) unsigned	YES		NULL	
date_add	datetime	NO	MUL	NULL	
date_upd	datetime	NO		NULL	
advanced_stock_management	tinyint(1)	NO		0	
pack_stock_type	int(11) unsigned	NO		3	
state	int(11) unsigned	NO	MUL	1	

53 rows in set (0,00 sec)

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	
Cache_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



PrestaShop₁

Illustration 18 image thanks to Seoxan.com.

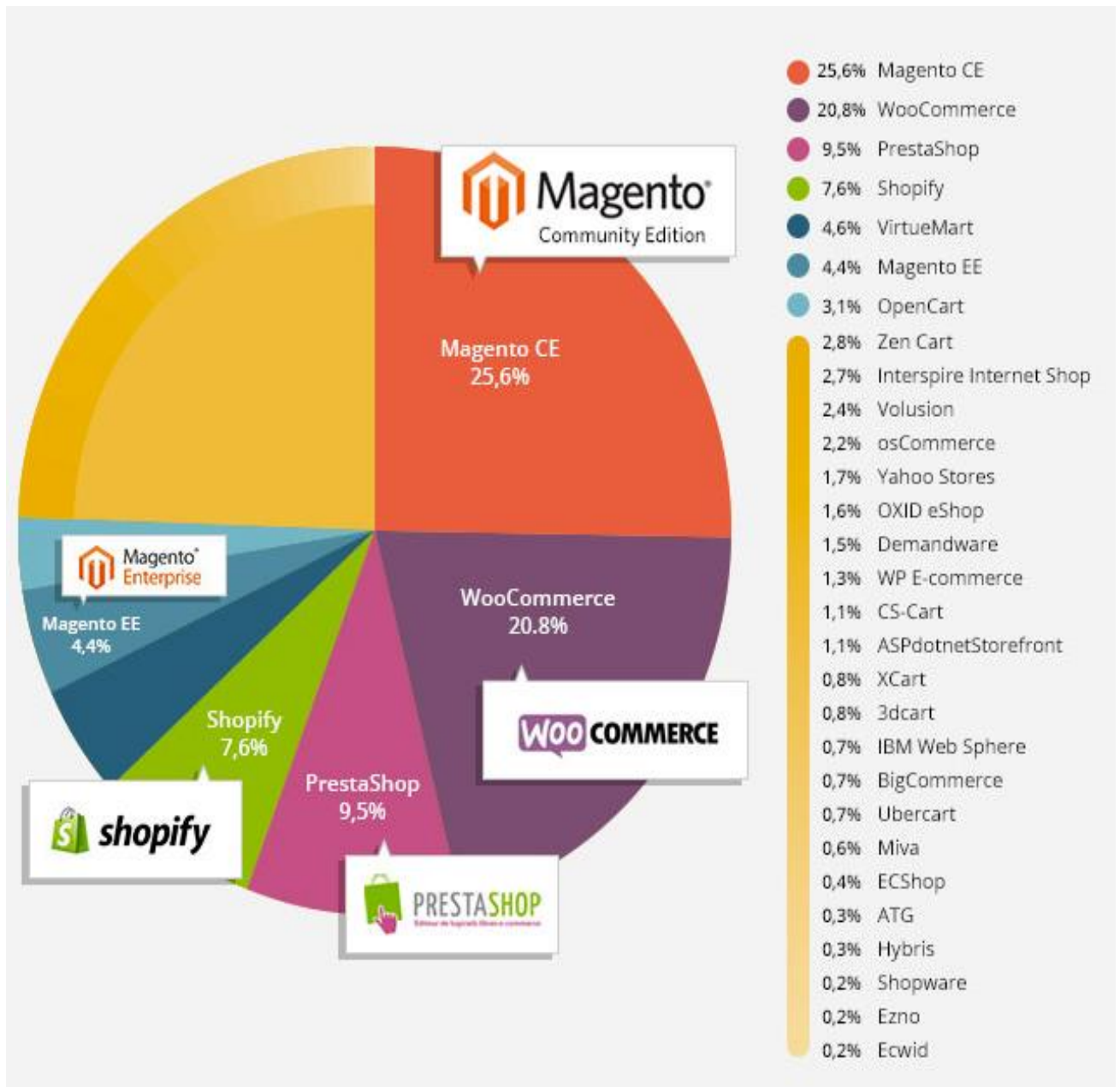


Figure 19. Image thanks to Queretail.com.

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.



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

Scripts

- Smart Importer:

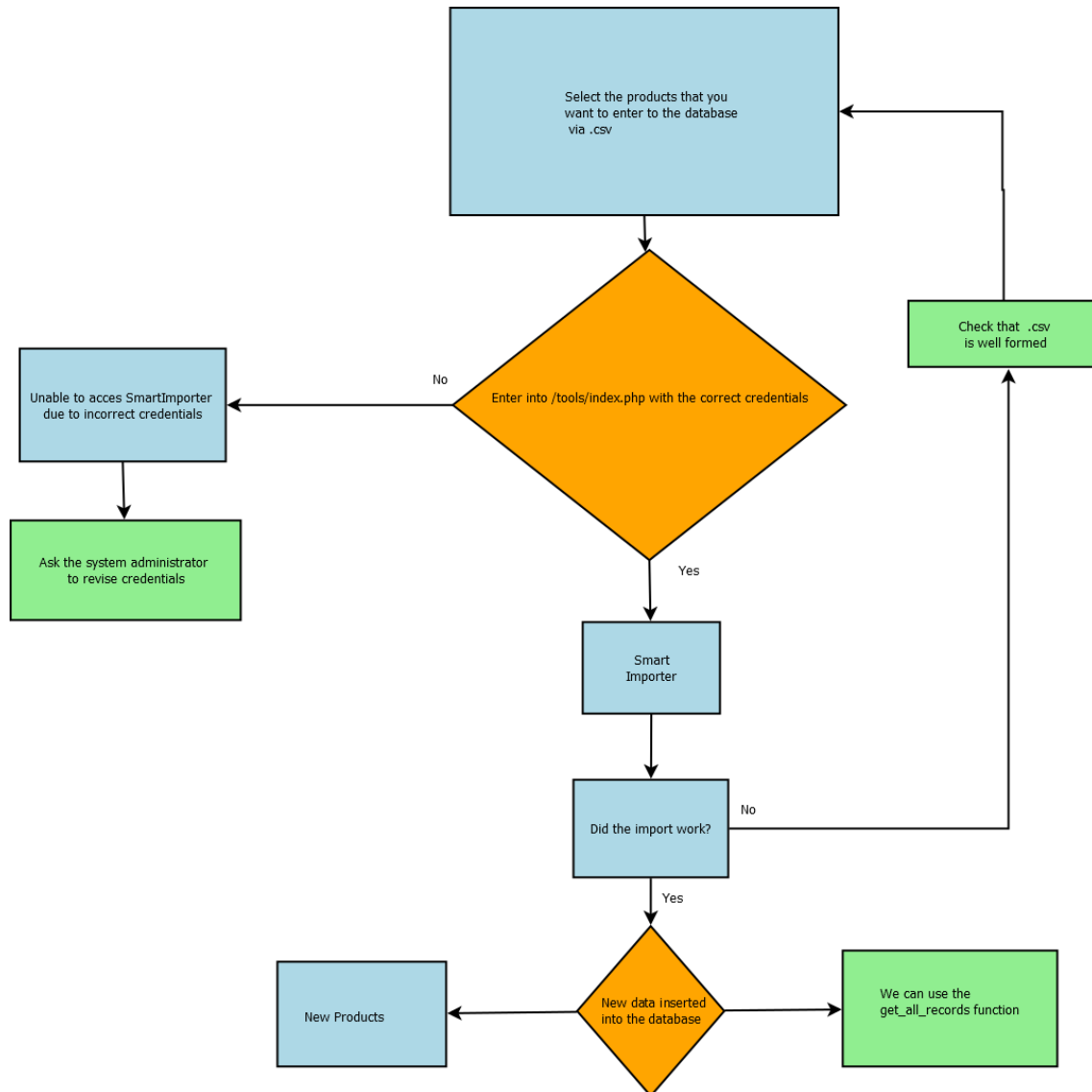


Figure 21. SmartImporter design. Nicholas Smart

- NGINX scheme

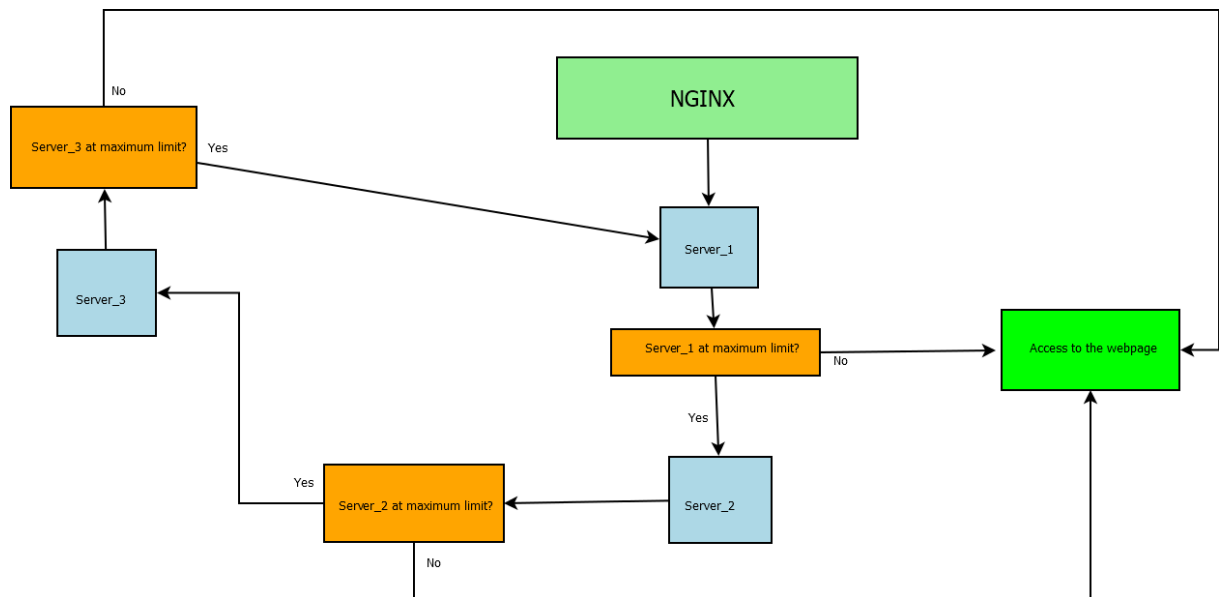


Figure 22. Nginx schema. Nicholas Smart

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
Htaccess	10mins
Installing and configuring NGINX	2-3 hours
Scripts	6 – 10 hours approximately
Installing and configuring MySQL	3-4 hours

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Thanks

- Professors of INS Sa Palomera for all their patience and dedication
 - Ricard Pla, professor of operating systems and hardware implementation
 - Robert Ventura, professor of database administration.
 - José Moreno, professor of virtualization and programming
 - Jordi Aparacio, professor of Web design and HTML/CSS/PHP
 - Josep Camara Garcia, professor of operating systems administration
 - Cristina Gómez Alonso, professor of programming and brand languages and computer security
 - Josep Catà, professor of programming and hardware
 - Isaac Puli Diestro, professor of computer services and operating systems
 - Xavier Martín, professor of networks and operating systems
 - David Bancells, professor of computer security
 - Silvia Fortuny, Office teacher
 - Pere Sánchez, professor of operating systems and networks
 - Josep Anton Perez, professor of operating systems and computer security
 - Josep Oliveras, professor of networks
- The GK2WEB/Informàtica team Cano Granada SL

Webgraphy

- ❖ <https://linoxide.com/linux-how-to/install-configure-dhcp-ubuntu/>
- ❖ <https://hostadvice.com/how-to/how-to-install-prestashop-on-ubuntu-18-04-server/>
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