

Mejores prácticas con Joomla

Por: Ing. Erika Arreguin Murillo

¿Qué es un Sistema Gestor de Contenidos?

" Un CMS es un sistema de software para computadora que permite organizar y facilitar la creación de documentos y otros contenidos de un modo cooperativo. Con frecuencia, un CMS es una aplicación web usada para gestionar sitios web y contenidos web"

Joomla - administrador

The screenshot displays the Joomla! administrator control panel. At the top, there is a navigation menu with items: System, Users, Menus, Content, Components, Extensions, and Help. The main header area includes a 'Control Panel' title and the Joomla! logo. A left sidebar contains a menu of administrative functions categorized into CONTENT, STRUCTURE, USERS, CONFIGURATION, EXTENSIONS, and MAINTENANCE. The main content area features a prominent blue notification box for post-installation messages, followed by three summary tables: 'LOGGED-IN USERS', 'POPULAR ARTICLES', and 'RECENTLY ADDED ARTICLES'. The bottom of the page shows a status bar with system information and a copyright notice.

System • Users • Menus • Content • Components • Extensions • Help • Mejores practi... B

Control Panel Joomla!

CONTENT

- Add New Article
- Article Manager
- Category Manager
- Media Manager

STRUCTURE

- Menu Manager
- Module Manager

USERS

- User Manager

CONFIGURATION

- Global Configuration
- Template Manager
- Language Manager

EXTENSIONS

- Install Extensions

MAINTENANCE

- Joomla! is up-to-date
- All extensions are up-to-date

You have post-installation messages

There are important post-installation messages that require your attention. To view those messages please click on the [Review Messages](#) button below.

You can review the messages at any time by clicking on the Components, Post-installation messages menu item of your site's administrator section. This information area won't appear when you have hidden all messages.

[Review Messages](#)

LOGGED-IN USERS

Super User Administration	2014-06-17
---------------------------	------------

POPULAR ARTICLES

Articulo (es-es)	2014-06-17
Article (en-gb)	2014-06-17

RECENTLY ADDED ARTICLES

Articulo (es-es) Super User	2014-06-17
Article (en-gb) Super User	2014-06-17

MultiUniversal Online • IP: 192.168.1.1 • Joomla! 3.2.1 • © 2014. All rights reserved.

Joomla - sitio



The screenshot displays a Joomla! website interface. At the top, the main title "Mejores practicas con Joomla" is shown in a large, bold, dark blue font, accompanied by Spanish and English language flags. Below the title, the page is divided into several sections. On the left, there is a "Inicio" (Home) section and an "Artículo (es-es)" (Article) section. The article section includes a "Detalles" (Details) sub-section with metadata: "Escrito por Joomla", "Categoría: Categoría (es-es)", "Publicado: 17 Junio 2014", and "Visto: 0". Below this is a block of placeholder text in Latin. To the right of the article is a "Main menu es-ES" with a link to "Inicio". Further right is a "Login Form" containing input fields for "Usuario" (Username) and "Contraseña" (Password), a "Recuérdeme" (Remember me) checkbox, and a blue "Identificarse" (Log In) button. Below the login form are links for "Crear una cuenta" (Create an account), "¿Recordar usuario?" (Remember username?), and "¿Recordar contraseña?" (Remember password?). At the bottom of the page, the footer contains the copyright notice "© 2014 Mejores practicas con Joomla" and a link "Volver arriba" (Go up).

Mejores practicas con Joomla

Inicio

Artículo (es-es)

Detalles

Escrito por Joomla

Categoría: Categoría (es-es)

Publicado: 17 Junio 2014

Visto: 0

Lorem ipsum ad his scripta blandit partiendo, eum fastidii accumsan euripidis in, eum liber hendrent an. Qui ut wisi vocibus suscipiantur, quo dicit ridens inciderint id. Quo mundi lobortis reformidans eu, legimus senseritdefiniebas an eos. Eu sit tincidunt incorrupte definitionem, vis mutat affert percipit cu, eirmod consectetuer signiferumque eu per. In usu latineequidem dolores. Quo no falli vis intellegam, ut fugit veritus placeratper. Ius id vidit volumus mandamus, vide veritus democritum te nec, ei eosdebet libris consulatu.

Está aquí: Inicio

Main menu es-ES

Inicio

Login Form

Usuario

Contraseña

Recuérdeme

Identificarse

Crear una cuenta

¿Recordar usuario?

¿Recordar contraseña?

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Volver arriba

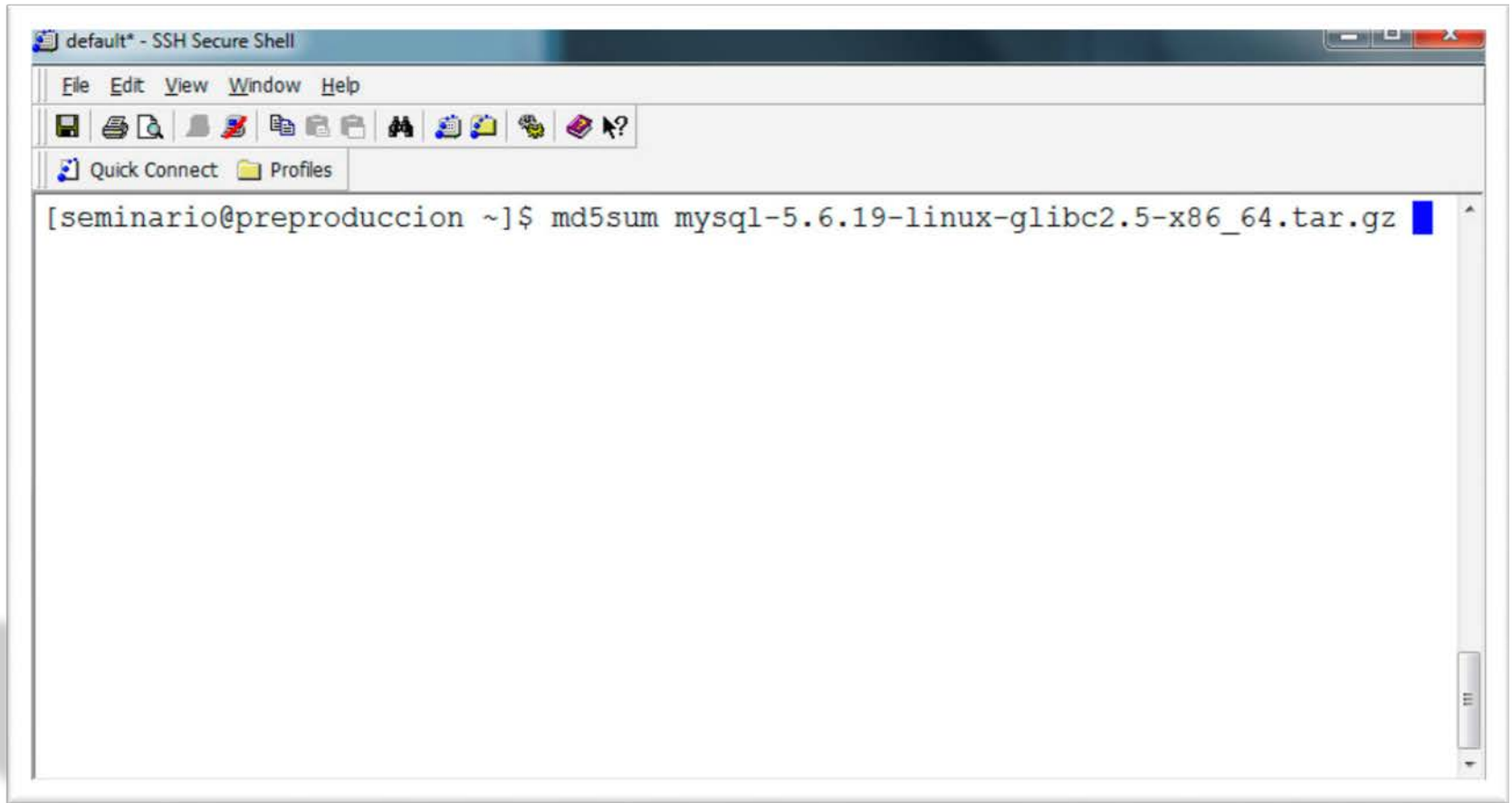
Versión de Joomla	Software	Versión recomendada	Versión mínima
Joomla 3.x	PHP (Magic Quotes GPC off)	5.4+	5.3.10 +
Joomla 1.6.x Joomla 1.7.x Joomla 2.5	PHP	5.3	5.2.4+
Joomla 1.5.x	PHP	5.3	5.2+
	Servidor de Base de Datos		
Joomla 3.x	MySQL (InnoDB support required)	5.1 +	5.1 +
Joomla 1.6.x Joomla 1.7.x Joomla 2.5	MySQL	5.0.4+	5.0.4+
Joomla 1.5.x	MySQL	4.1.+	3.23.x
	Servidor Web		
Joomla 3.x	Apache	2.x+	2.x+
Joomla 1.6.x Joomla 1.7.x Joomla 2.5	Apache	2x+	2.x+
Joomla 1.5.x	Apache	2.x+	1.3

Uno

Descargar el software de fuentes confiables

Dos

Verificar la integridad del software
descargado



The image shows a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, search, and copy. There are also tabs for "Quick Connect" and "Profiles". The main area of the terminal displays the command: `[seminario@preproduccion ~]$ md5sum mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz`. A blue cursor is positioned at the end of the command line.

```
[seminario@preproduccion ~]$ md5sum mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz
```


default* - SSH Secure Shell

File Edit View Window Help



Quick Connect Profiles

```
[seminario@preproduccion ~]$ md5sum mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz  
5e0e455c5a02b661b10561ad60e86a19  mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz  
[seminario@preproduccion ~]$
```

```
default* - SSH Secure Shell
File Edit View Window Help
[seminario@preproduccion ~]$ md5sum mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz
5e0e455c5a02b661b10561ad60e86a19 mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz
[seminario@preproduccion ~]$
```

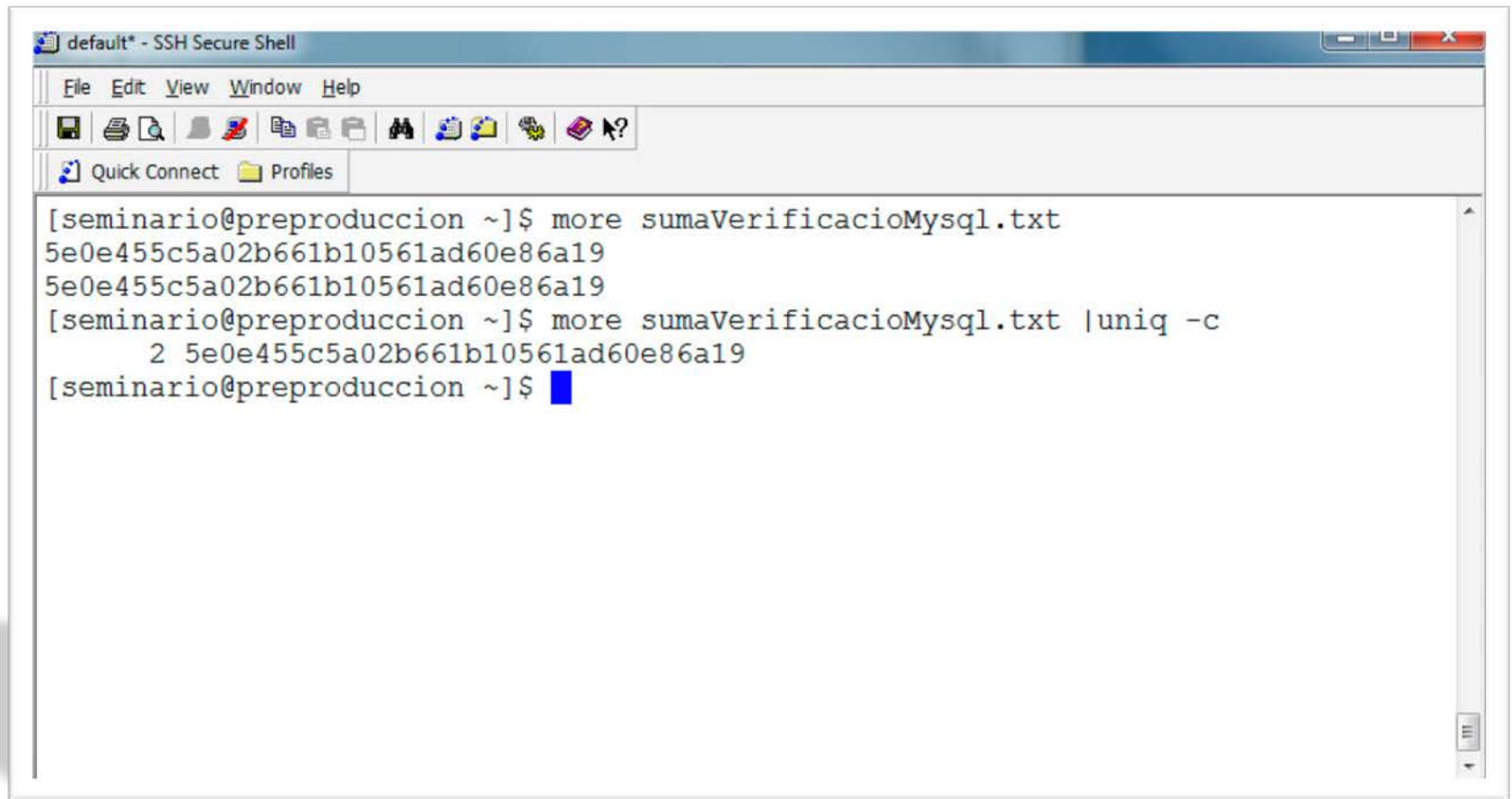
MySQL :: Download MySQL

dev.mysql.com/downloads/mysql/

1.linux_glibc2.5.x86_64.rpm

Linux - Generic (glibc 2.5) (x86, 64-bit), Compressed TAR Archive	5.6.19	291.4M	Download
(mysql-5.6.19-linux-glibc2.5-x86_64.tar.gz)	MD5: 5e0e455c5a02b661b10561ad60e86a19		Signature
Linux - Generic (glibc 2.5) (x86, 32-bit), Compressed TAR Archive	5.6.19	283.4M	Download
(mysql-5.6.19-linux-glibc2.5-i686.tar.gz)	MD5: ccda5c3a9bf5c7d1f5a39ef493322660		Signature

 We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.



The image shows a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, search, and copy. There are also tabs for "Quick Connect" and "Profiles". The terminal content shows the following commands and output:

```
[seminario@preproduccion ~]$ more sumaVerificacioMysql.txt
5e0e455c5a02b661b10561ad60e86a19
5e0e455c5a02b661b10561ad60e86a19
[seminario@preproduccion ~]$ more sumaVerificacioMysql.txt |uniq -c
      2 5e0e455c5a02b661b10561ad60e86a19
[seminario@preproduccion ~]$
```

MySQL en Windows

Usuario	Privilegios	Conexión	Contraseña
root	todos	local	Sin contraseña
root	todos	exterior	Sin contraseña
[anónima]	todos	local	Sin contraseña
[anónima]	todos en la BD test u otras donde el nombre inicie con test	exterior	Sin contraseña

MySQL en Unix

Usuario	Privilegios	Conexión	Contraseña
root	todos	local	Sin contraseña
root	todos	local	Sin contraseña
	Todos en la BD test u otras donde el nombre inicie con test	local	Sin contraseña
	Todos en la BD test u otras donde el nombre inicie con test	local	Sin contraseña

Recomendación

Establecer una contraseña para las cuentas anónimas y para las cuentas de root

Cuentas anónimas de MySQL – SET PASSWORD Windows

```
shell> mysql -u root
```

```
mysql> SET PASSWORD FOR "@'localhost' = PASSWORD('nvaContraseña');
```

```
mysql> SET PASSWORD FOR "@'% = PASSWORD('nvaContraseña');
```

Cuentas anónimas de MySQL – SET PASSWORD Unix

```
shell> mysql -u root
```

```
mysql> SET PASSWORD FOR "@'localhost' = PASSWORD('nvaContraseña');
```

```
mysql> SET PASSWORD FOR "@'host_name' = PASSWORD('nvaContraseña');
```


Cuentas anónimas de MySQL – UPDATE en Windows y Unix

```
shell> mysql -u root
```

```
mysql> UPDATE mysql.user SET Password = PASSWORD('newpwd') WHERE User = '';
```

```
mysql> FLUSH PRIVILEGES;
```

Cuentas root de MySQL – SET PASSWORD Windows

```
shell> mysql -u root
```

```
mysql> SET PASSWORD FOR 'root'@'localhost' = PASSWORD('nvaContraseña');
```

```
mysql> SET PASSWORD FOR 'root'@'%' = PASSWORD('nvaContraseña');
```

Cuentas root de MySQL – SET PASSWORD Unix

```
shell> mysql -u root
```

```
mysql> SET PASSWORD FOR 'root'@'localhost' = PASSWORD('nvaContraseña');
```

```
mysql> SET PASSWORD FOR 'root'@'host_name' = PASSWORD('nvaContraseña');
```

Cuentas root de MySQL – UPDATE en Windows y Unix

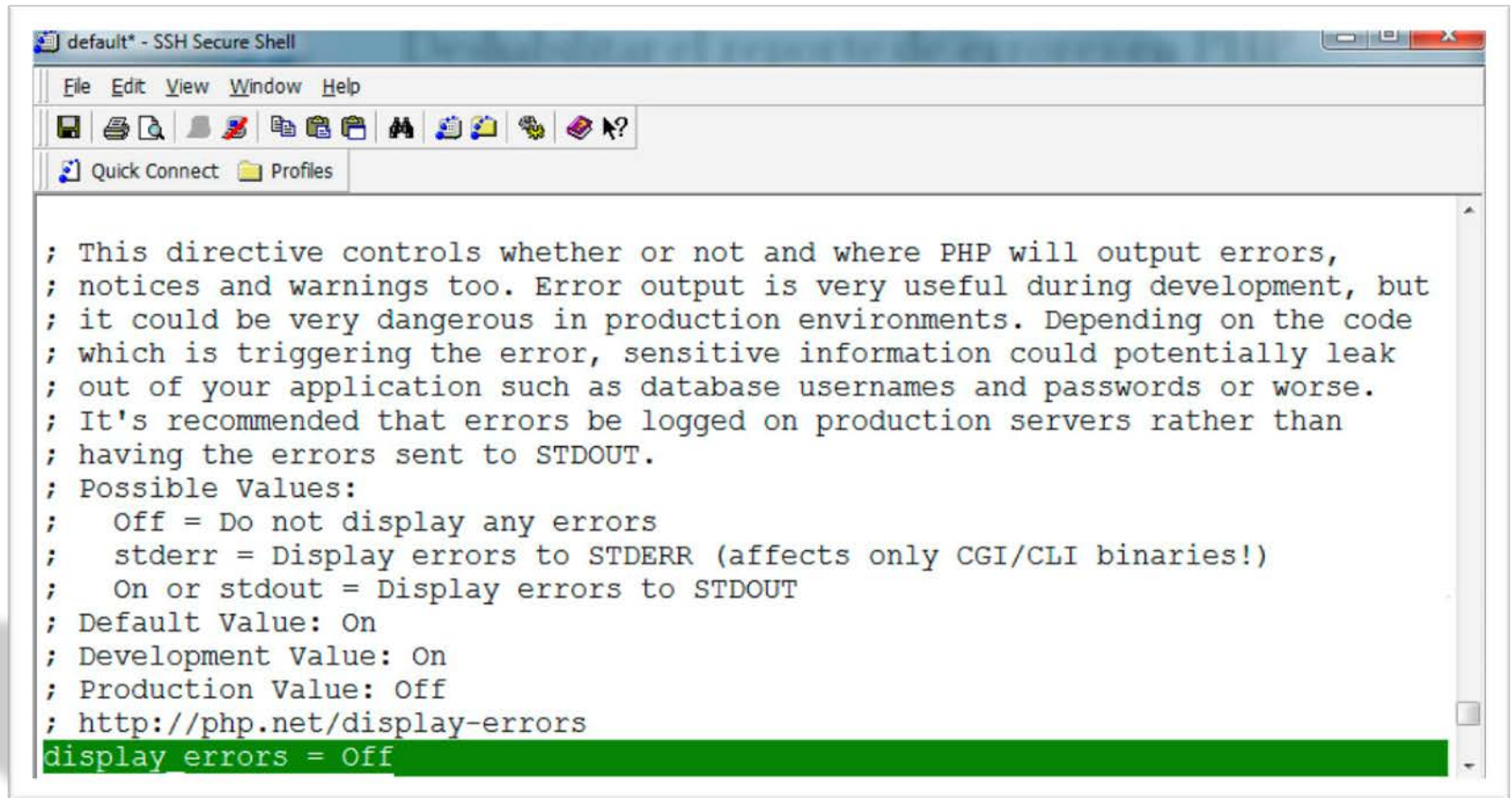
```
shell> mysql -u root
```

```
mysql> UPDATE mysql.user SET Password = PASSWORD('newpwd') WHERE User = 'root';
```

```
mysql> FLUSH PRIVILEGES;
```

REC

Deshabilitar el reporte de errores en PHP

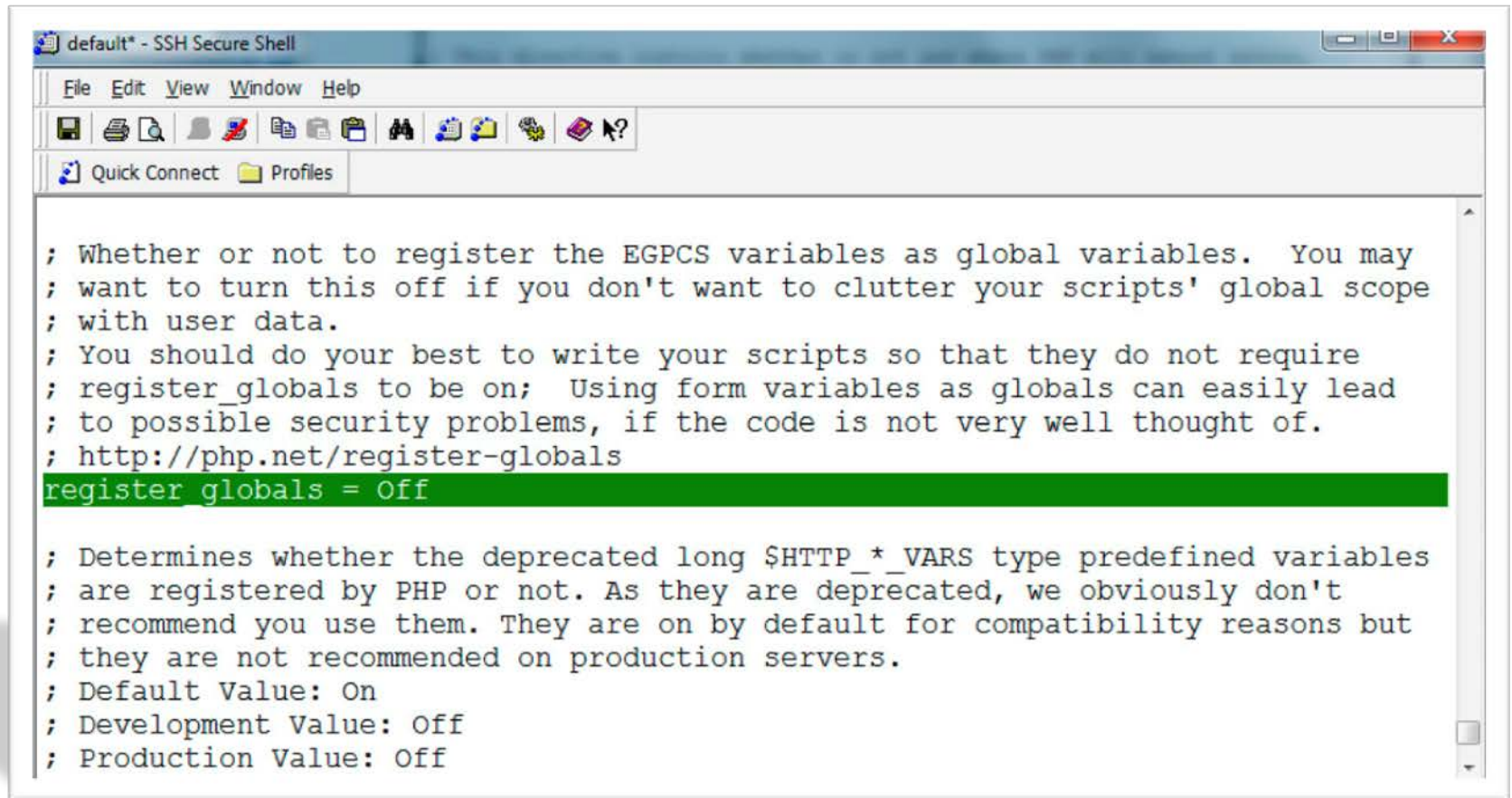


The image shows a screenshot of a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, copy, paste, and search. The main content area displays text explaining the 'display_errors' directive in PHP. The text is as follows:

```
; This directive controls whether or not and where PHP will output errors,  
; notices and warnings too. Error output is very useful during development, but  
; it could be very dangerous in production environments. Depending on the code  
; which is triggering the error, sensitive information could potentially leak  
; out of your application such as database usernames and passwords or worse.  
; It's recommended that errors be logged on production servers rather than  
; having the errors sent to STDOUT.  
; Possible Values:  
;   Off = Do not display any errors  
;   stderr = Display errors to STDERR (affects only CGI/CLI binaries!)  
;   On or stdout = Display errors to STDOUT  
; Default Value: On  
; Development Value: On  
; Production Value: Off  
; http://php.net/display-errors  
display_errors = Off
```

REC

Deshabilita register_globals



The image shows a screenshot of a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, and search. There are also tabs for "Quick Connect" and "Profiles". The main content area displays PHP configuration comments. The line `register_globals = Off` is highlighted in green. The comments explain the purpose of this setting and provide a URL for more information.

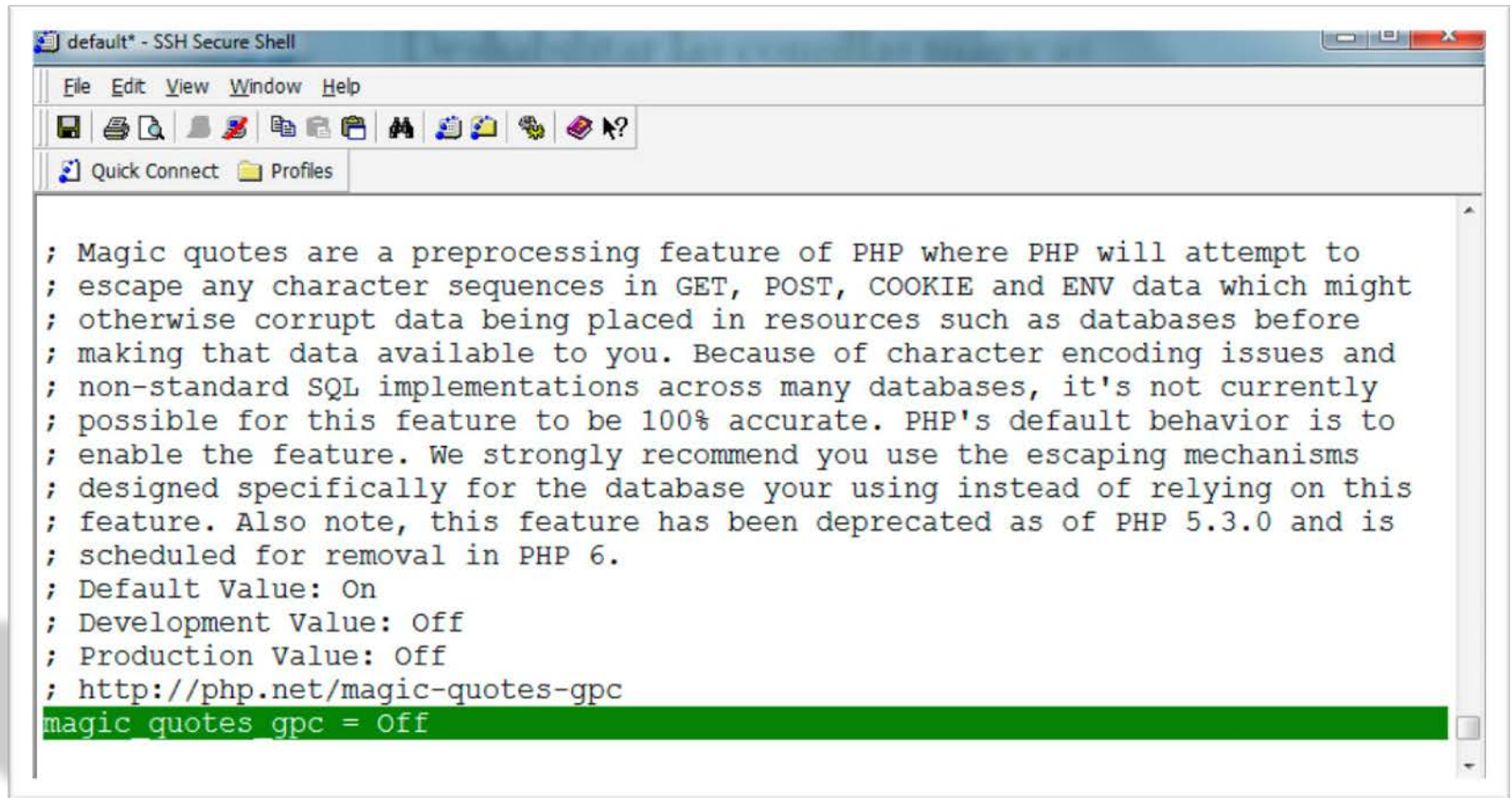
```
default* - SSH Secure Shell
File Edit View Window Help
[Icons]
Quick Connect Profiles

; Whether or not to register the EGPCS variables as global variables.  You may
; want to turn this off if you don't want to clutter your scripts' global scope
; with user data.
; You should do your best to write your scripts so that they do not require
; register_globals to be on; Using form variables as globals can easily lead
; to possible security problems, if the code is not very well thought of.
; http://php.net/register-globals
register_globals = Off

; Determines whether the deprecated long $HTTP_*_VARS type predefined variables
; are registered by PHP or not. As they are deprecated, we obviously don't
; recommend you use them. They are on by default for compatibility reasons but
; they are not recommended on production servers.
; Default Value: On
; Development Value: Off
; Production Value: Off
```


REC

Deshabilitar las comillas mágicas



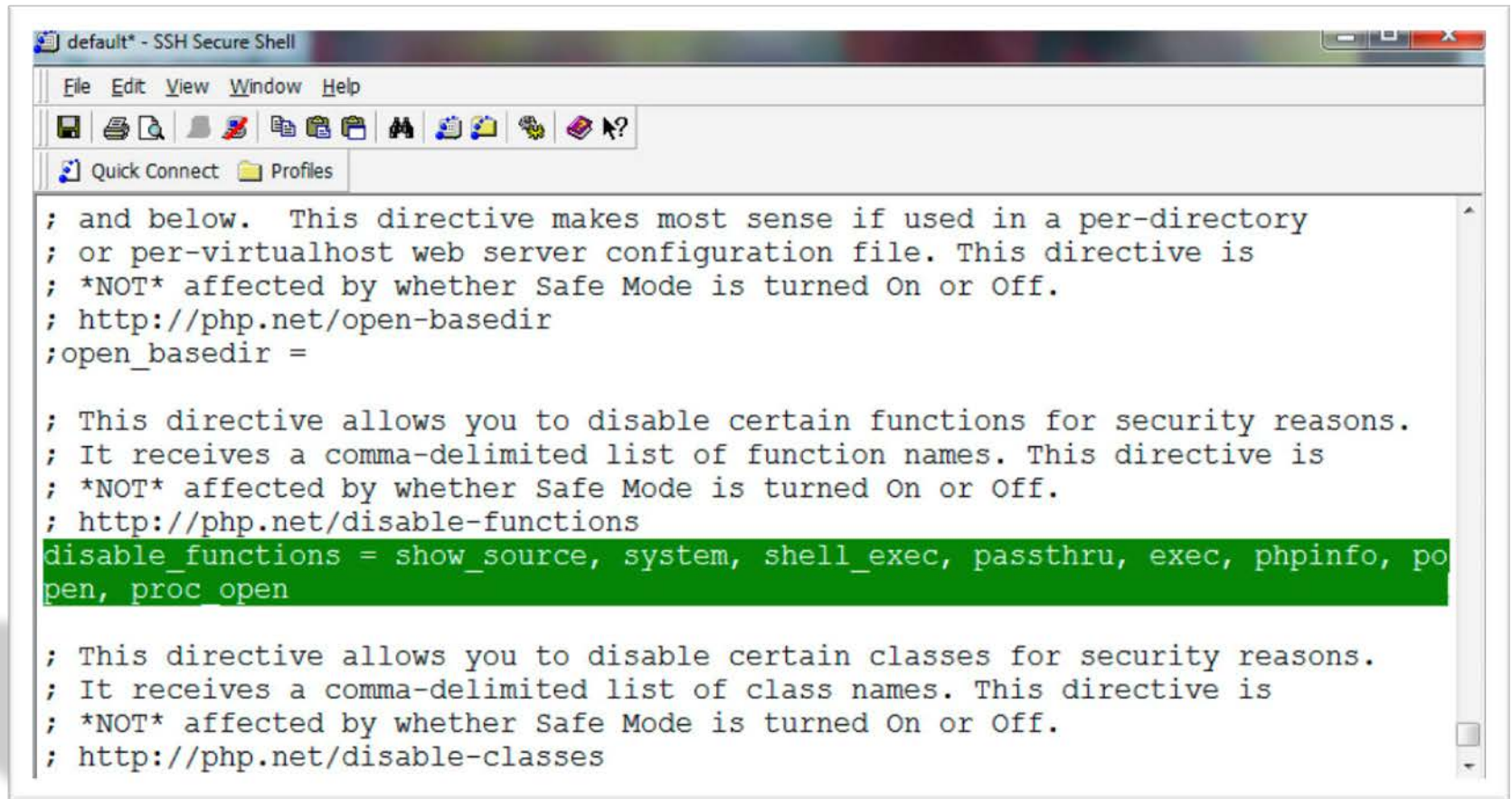
The image shows a screenshot of a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, and search. The main content area displays a block of text explaining the "magic quotes" feature in PHP. The text is as follows:

```
; Magic quotes are a preprocessing feature of PHP where PHP will attempt to  
; escape any character sequences in GET, POST, COOKIE and ENV data which might  
; otherwise corrupt data being placed in resources such as databases before  
; making that data available to you. Because of character encoding issues and  
; non-standard SQL implementations across many databases, it's not currently  
; possible for this feature to be 100% accurate. PHP's default behavior is to  
; enable the feature. We strongly recommend you use the escaping mechanisms  
; designed specifically for the database your using instead of relying on this  
; feature. Also note, this feature has been deprecated as of PHP 5.3.0 and is  
; scheduled for removal in PHP 6.  
; Default Value: On  
; Development Value: Off  
; Production Value: Off  
; http://php.net/magic-quotes-gpc  
magic quotes gpc = Off
```

The last line, "magic quotes gpc = Off", is highlighted in green.

REC

Deshabilitar funciones “muy informativas” de
PHP



The image shows a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, and search. The main area of the window contains text from a configuration file, likely a PHP configuration file. The text is as follows:

```
; and below. This directive makes most sense if used in a per-directory
; or per-virtualhost web server configuration file. This directive is
; *NOT* affected by whether Safe Mode is turned On or Off.
; http://php.net/open-basedir
;open_basedir =

; This directive allows you to disable certain functions for security reasons.
; It receives a comma-delimited list of function names. This directive is
; *NOT* affected by whether Safe Mode is turned On or Off.
; http://php.net/disable-functions
disable_functions = show_source, system, shell_exec, passthru, exec, phpinfo, po
pen, proc_open

; This directive allows you to disable certain classes for security reasons.
; It receives a comma-delimited list of class names. This directive is
; *NOT* affected by whether Safe Mode is turned On or Off.
; http://php.net/disable-classes
```

show_source

```
j default - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles

[seminario@preproduccion htdocs]$ more showcod.php
<?php
show_source("configuration.php");
?>

[seminario@preproduccion htdocs]$
```

```
:vpngp
class JConfig {
    public $offline = '0';
    public $offline_message = 'Este sitio estÃ¡ cerrado por tareas de mantenimiento
<br /> Por favor, intente nuevamente mÃ¡s tarde.';
    public $display_offline_message = '1';
    public $offline_image = '';
    public $sitename = 'Mejores practicas con Joomla!';
    public $editor = 'tinymce';
    public $captcha = '0';
    public $list_limit = '20';
    public $access = '1';
    public $debug = '0';
    public $debug_lang = '0';
    public $dbtype = 'mysql';
    public $host = 'localhost';
    public $user = 'usuario_bd';
    public $password = 'password';
    public $db = 'nombre_bd';
    public $dbprefix = 'mpj_';
    public $live_site = '';
    public $secret = '-----';
    public $gzip = '0';
    public $error_reporting = 'default';
    public $helpurl = 'http://help.joomla.org/proxy/index.php?
option=com_help&keyref=Help(major):(minor):(keyref)';
    public $ftp_host = '';
    public $ftp_port = '';
    public $ftp_user = '';
    public $ftp_pass = '';
    public $ftp_root = '';
    public $ftp_enable = '';
    public $offset = 'UTC';
    public $mailonline = '1';
    public $mailer = 'mail';
    public $mailfrom = 'correo@correo.com';
    public $fromname = 'Mejores practicas con Joomla!';
    public $sendmail = '/usr/sbin/sendmail';
    public $smtpauth = '0';
    public $smtpuser = '';
    public $smtppass = '';
    public $smtphost = 'localhost';
    public $smtpsecure = 'none';
    public $smtpport = '25';
    public $scaching = '0';
    public $cache_handler = 'file';
    public $cachetime = '15';
    public $metaDesc = '';
    public $metaKeys = '';
    public $metaTitle = '1';
    public $metaAuthor = '1';
    public $metaVersion = '0';
    public $robots = '';
    public $sef = '1';
    public $sef_rewrite = '0';
    public $sef_suffix = '0';
    public $unicodeslugs = '0';
}
```

```
default* - SSH Secure Shell
File Edit View Window Help
Quick Connect Profiles

[seminario@preproduccion htdocs]$ more intercom.php
<?php
$salida = shell_exec('ls -la');
echo "<pre>$salida</pre>";
?>
[seminario@preproduccion htdocs]$
```

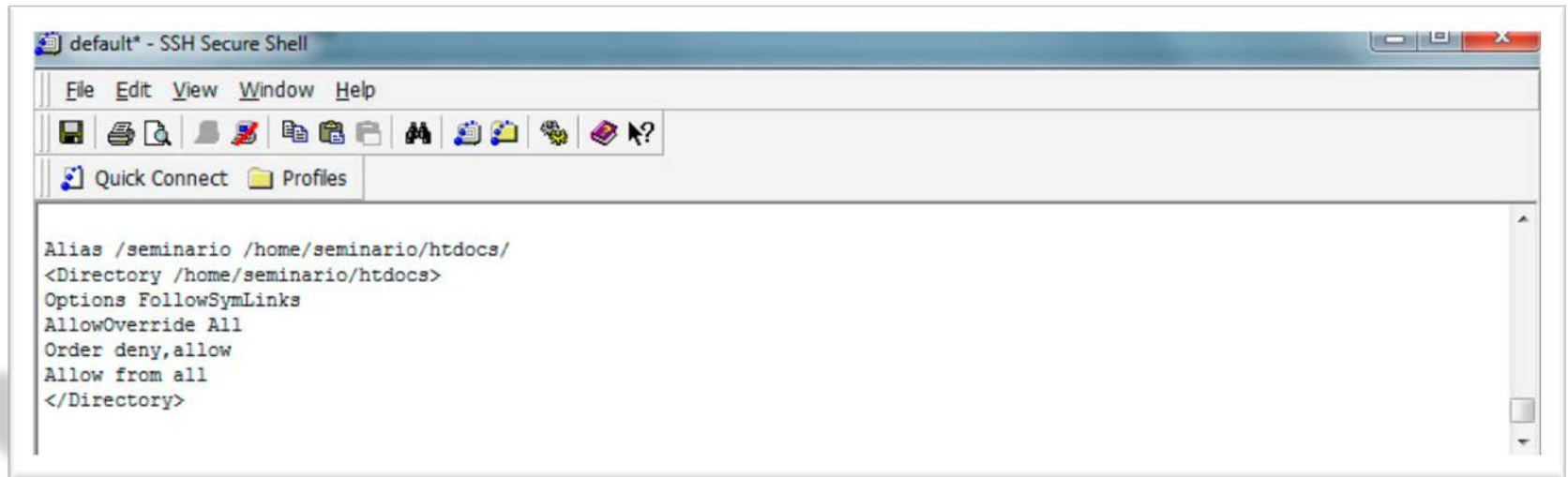
```
total 128
rwxrwx--- 18 seminario daemon 4096 jun 17 17:19 .
rwx-----x 5 seminario seminario 4096 jun 17 17:17 ..
rwxrwx--- 10 seminario daemon 4096 jun 11 07:46 administrator
rwxrwx--- 2 seminario daemon 4096 jun 11 07:46 bin
rwxrwx--- 2 seminario daemon 4096 jun 11 07:46 cache
rwxrwx--- 2 seminario daemon 4096 jun 11 07:46 cli
rwxrwx--- 17 seminario daemon 4096 jun 11 07:46 components
rw-r--r-- 1 seminario daemon 1922 jun 16 22:06 configuration.php
rw-rw---- 1 seminario daemon 2859 jun 11 07:46 htaccess.txt
rwxrwx--- 5 seminario daemon 4096 jun 11 07:46 images
rwxrwx--- 2 seminario daemon 4096 jun 11 07:46 includes
rw-rw---- 1 seminario daemon 1013 jun 11 07:46 index.php
rw-rw-r-- 1 seminario seminario 68 jun 17 17:17 intercom.php
rwxrwx--- 5 seminario daemon 4096 jun 16 21:22 language
rwxrwx--- 4 seminario daemon 4096 jun 11 07:46 layouts
rwxrwx--- 13 seminario daemon 4096 jun 11 07:46 libraries
rw-rw---- 1 seminario daemon 17816 jun 11 07:46 LICENSE.txt
rwxrwx--- 2 seminario daemon 4096 jun 11 07:46 logs
rwxrwx--- 18 seminario daemon 4096 jun 11 07:46 media
rwxrwx--- 28 seminario daemon 4096 jun 11 07:46 modules
rwxrwx--- 14 seminario daemon 4096 jun 11 07:46 plugins
rw-rw---- 1 seminario daemon 4310 jun 11 07:46 README.txt
rw-rw---- 1 seminario daemon 882 jun 11 07:46 robots.txt
rw-rw-r-- 1 seminario seminario 44 jun 17 17:13 showcod.php
rwxrwx--- 5 seminario daemon 4096 jun 11 07:46 templates
rwxrwx--- 2 seminario daemon 4096 jun 16 21:22 tmp
rw-rw---- 1 seminario daemon 1609 jun 11 07:46 web.config.txt
```

```
default -- 33M Secure ones
File Edit View Window Help
Quick Connect Profiles
[seminario@preproduccion htdocs]$ more phpinfo.php
<?php
print phpinfo();
?>
[seminario@preproduccion htdocs]$
```

Directive	Local Value	Master Value
session.auto_start	Off	Off
session.bug_compat_42	Off	Off
session.bug_compat_warn	Off	Off
session.cache_expire	180	180
session.cache_limiter	nocache	nocache
session.cookie_domain	no value	no value
session.cookie_httponly	Off	Off
session.cookie_lifetime	0	0
session.cookie_path	/	/
session.cookie_secure	Off	Off
session.entropy_file	no value	no value
session.entropy_length	0	0
session.gc_divisor	1000	1000
session.gc_maxlifetime	1440	1440
session.gc_probability	1	1
session.hash_bits_per_character	5	5
session.hash_function	0	0

REC

Utilizar el uso de .htaccess de Apache



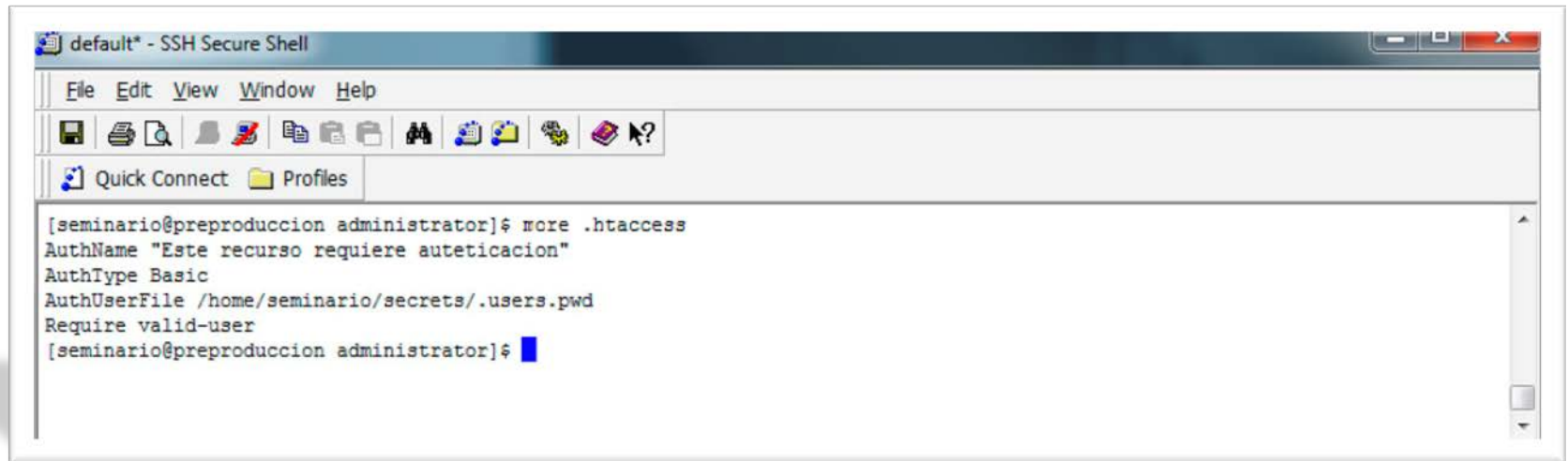
The image shows a screenshot of a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main content area displays the following text:

```
Alias /seminario /home/seminario/htdocs/  
<Directory /home/seminario/htdocs>  
Options FollowSymLinks  
AllowOverride All  
Order deny,allow  
Allow from all  
</Directory>
```

`$/path/instalacion/apache/bin/apachectl restart`

REC

Establecer restricciones de acceso al área administrativa de Joomla



The image shows a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons. The terminal content shows a user prompt "[seminario@preproduccion administrator]\$" followed by the command "more .htaccess". The output of the command is displayed as follows:

```
[seminario@preproduccion administrator]$ more .htaccess
AuthName "Este recurso requiere auteticacion"
AuthType Basic
AuthUserFile /home/seminario/secrets/.users.pwd
Require valid-user
[seminario@preproduccion administrator]$
```

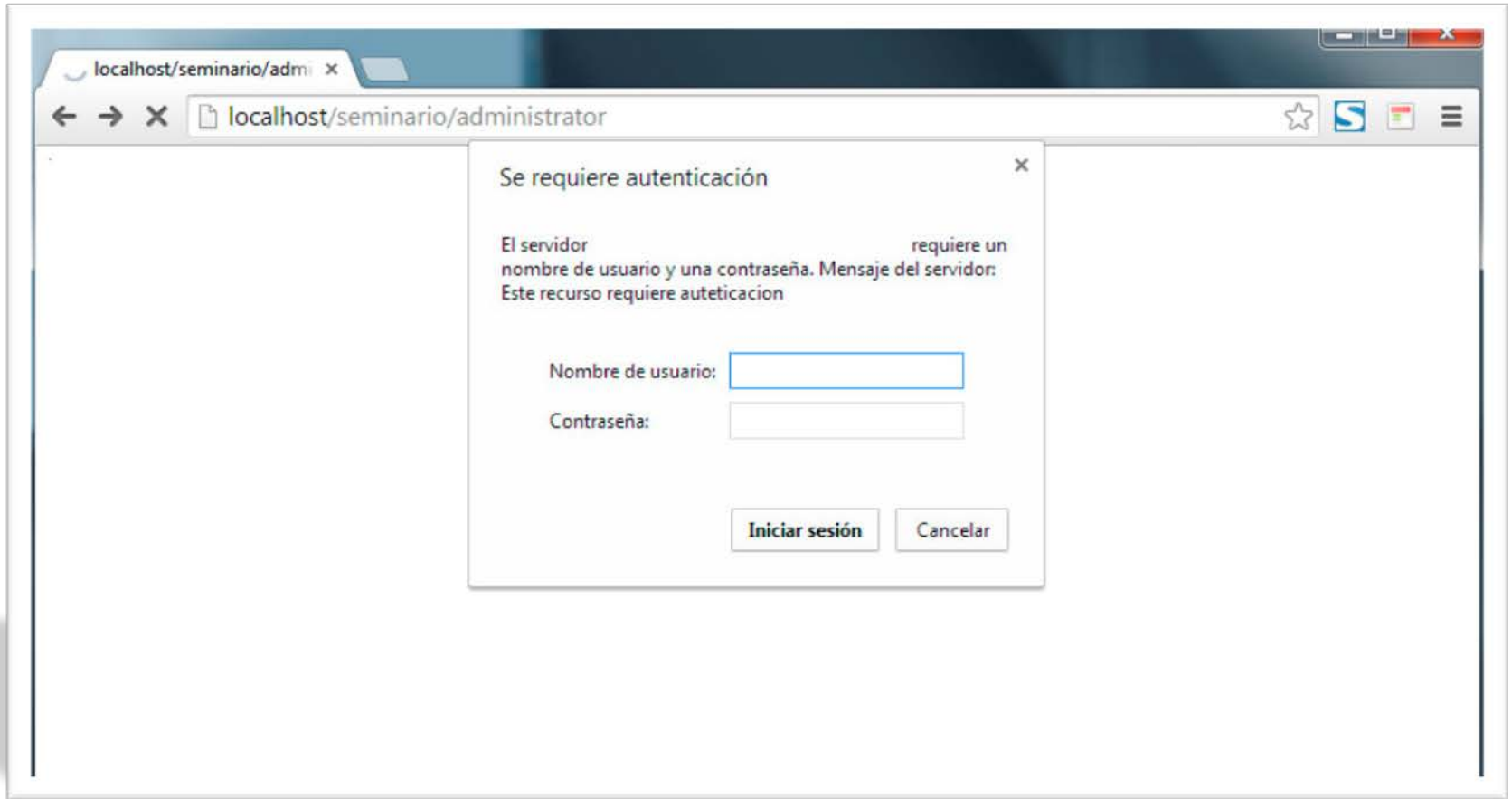
```
$/path/instalacion/apache/bin/htpasswd -c .users.pwd nombre_de_usuario
```

```
#chown httpd.httpd .htaccess
```

```
#chown 750 .htaccess
```

```
#chown httpd.httpd .users.pwd
```

```
#chown 750 .users.pwd
```



REC

Establecer los permisos adecuados de los archivos y directorios de la instalación de Joomla

```
#cd /home/seminario
```

```
#find htdocs -type d -exec chmod -R 770 {} \;
```

```
#find htdics -type f -exec chmod -R 660 {} \;
```

```
#chown -R seminario.apache htdocs
```

default* - SSH Secure Shell

File Edit View Window Help

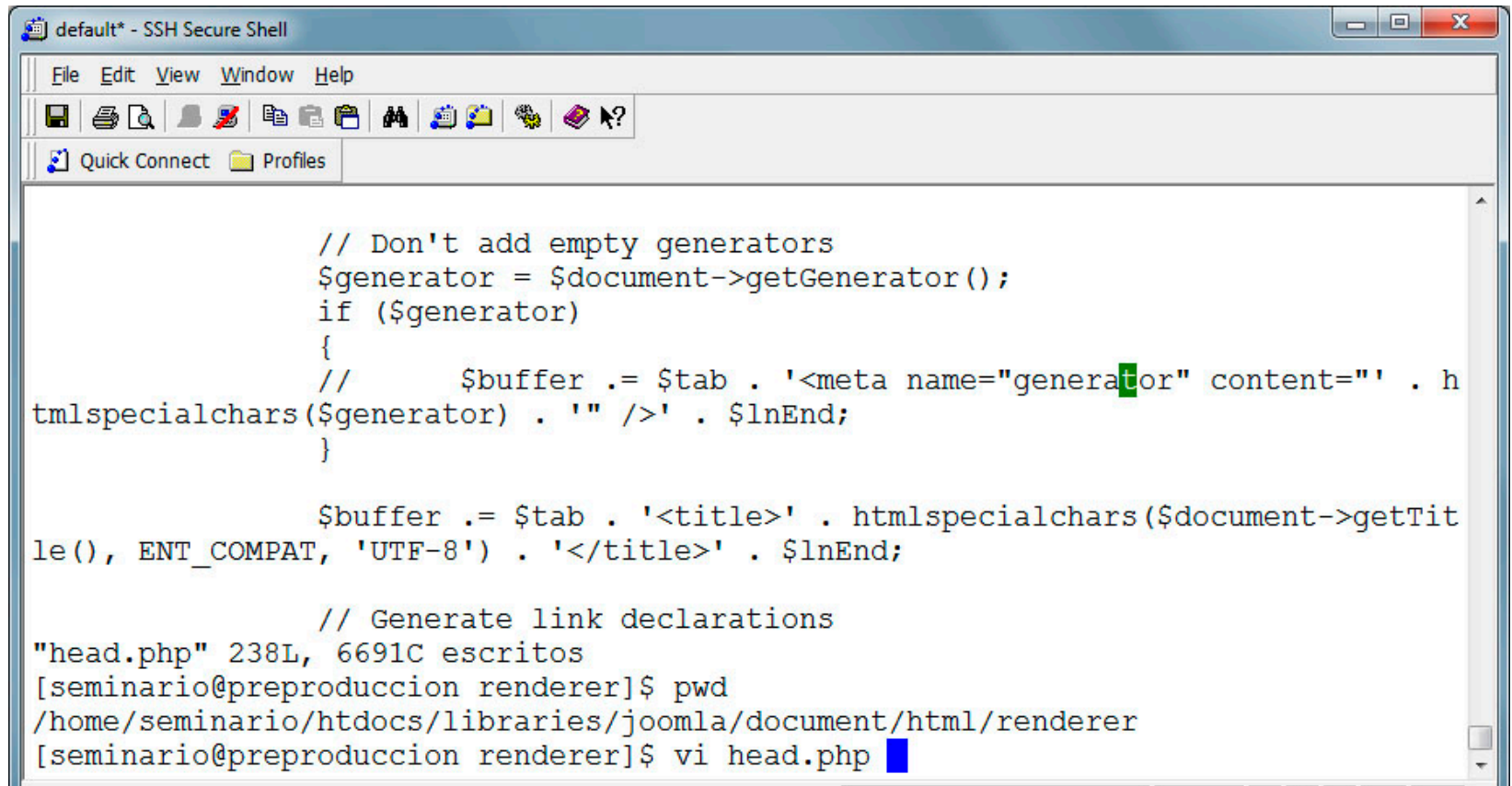


Quick Connect Profiles

```
[seminario@preproduccion htdocs]$ ll
total 124
drwxrwx--- 10 seminario apache 4096 jun 17 18:57 administrator
drwxrwx---  2 seminario apache 4096 jun 11 07:46 bin
drwxrwx---  2 seminario apache 4096 jun 11 07:46 cache
drwxrwx---  2 seminario apache 4096 jun 11 07:46 cli
drwxrwx--- 17 seminario apache 4096 jun 11 07:46 components
-rw-r--r--  1 seminario apache 1922 jun 16 22:06 configuration.php
-rw-rw----  1 seminario apache 2859 jun 11 07:46 htaccess.txt
drwxrwx---  5 seminario apache 4096 jun 11 07:46 images
drwxrwx---  2 seminario apache 4096 jun 11 07:46 includes
-rw-rw----  1 seminario apache 1013 jun 11 07:46 index.php
-rw-rw-r--  1 seminario apache  68 jun 17 17:17 intercom.php
drwxrwx---  5 seminario apache 4096 jun 16 21:22 language
drwxrwx---  4 seminario apache 4096 jun 11 07:46 layouts
drwxrwx--- 13 seminario apache 4096 jun 11 07:46 libraries
-rw-rw----  1 seminario apache 17816 jun 11 07:46 LICENSE.txt
drwxrwx---  2 seminario apache 4096 jun 11 07:46 logs
drwxrwx--- 18 seminario apache 4096 jun 11 07:46 media
drwxrwx--- 28 seminario apache 4096 jun 11 07:46 modules
-rw-rw-r--  1 seminario apache  26 jun 17 17:30 phpinfo.php
drwxrwx--- 14 seminario apache 4096 jun 11 07:46 plugins
-rw-rw----  1 seminario apache 4310 jun 11 07:46 README.txt
-rw-rw----  1 seminario apache  882 jun 11 07:46 robots.txt
```


REC

Quitar de la cabecera del sitio web la versión de Joomla



The image shows a terminal window titled "default* - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with various icons for file operations like save, print, and search. The main area of the terminal displays the following content:

```
// Don't add empty generators
$generator = $document->getGenerator();
if ($generator)
{
    //      $buffer .= $tab . '<meta name="generator" content="' . h
htmlspecialchars($generator) . '" />' . $lnEnd;
}

$buffer .= $tab . '<title>' . htmlspecialchars($document->getTit
le(), ENT_COMPAT, 'UTF-8') . '</title>' . $lnEnd;

// Generate link declarations
"head.php" 238L, 6691C escritos
[seminario@preproduccion renderer]$ pwd
/home/seminario/htdocs/libraries/joomla/document/html/renderer
[seminario@preproduccion renderer]$ vi head.php
```

REC

- Descargar Joomla y extensiones de sitios confiables
- Tener instalada la última versión estable y actualizada de Joomla.
- Tener la última versión actualizada de las extensiones.
- Utilizar un nombre de usuario diferente a “admin” en el administrador de Joomla
- Eliminar el directorio de instalación
- Eliminar el archivo de configuration.php.dist
- Eliminar elementos innecesarios en Joomla
- Realizar respaldos regularmente