□□□□□□□□□Apache□□□□□□□□,□□□□□□LINUX,□□□□□□WINDOWS □□□□□□□.

□□□□□□□:http://xok.la/2009/02/linux_apache_php_set.html

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□□□□□□□□□□□□□ISP,□□□□□□□□,□□apache□ php□□□□□□□□□□□□□□.
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□□□□□Apache Virtualhost□ PHP□□□□□□□□. □□□□□□□□□Virtualhost□□□
□□□□□□php_value,php_admin_value□ php_admin_flag□□,□□□□□□□□□□□□□□
□□□□□□□□□□□.

□□Apache□□□□□□□□□□□□□□□□□□□□□□□□□□:

```
 php_admin_value name 1|0|string              (value□□□□□□□□)
php_admin_flag name on|off                (flag□□on□ off,□□□Apache2.20□□)
```

□□□□:□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□,□□□□□□
□□□□□□□□□□□.

□□,□□ernest□□□□□□register_globals□□□□,□□□upload_max_filesize□□□
5M,□□□□safe_mode,□□□□□□□□□□□,□□□□□□□□□□VirtualHost□□□□□□□□:

```
        php_value upload_max_filesize 5M
        php_value register_globals 1

        php_value safe_mode 0
        php_flag safe_mode Off

        php_admin_value safe_mode 0        #(for Apache2.20)
        php_admin_flag safe_mode Off        #(for Apache2.20)
```

□php.ini□□□□□□□□□□□□□,□□□□□□□□□□□□□,□□□□□□□□□apache,□□
□□□□□phpinfo□□□□□□□□□Local Value□□□□□□□Master Value□□□□□.

□□□: □□□□□□□□□□□□□□□□□php.ini□□□□□□□□□□□□□□□□□□,□□
□□□□"register_globals 1", □□□php.ini□□□□"register_globals On".

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(1) safe_mode: □□□□□□□□□PHP;

□php.ini□□□□□□□□□□□(□□□□□□□□□□□):

safe_mode = On (□□□□□□□)
safe_mode = Off (□□□□□□□)

PHP□□□□□□□□□□□□□□□□□□□□□□(shared-server)□□□□□□□□□□□□□□. □□□□□□□□, □□□PHP□□□□□□□□□□□□□□□□□□□□, □□□□□□□□WEB□□□□□□□□□□□□□□□□□□□□□□, □□□□□□□□,□□□□□□□□□□□□□□ISP□□□□, □□□□□□□□□□□□□□□□□□□□□□PHP,□□□□□□□□□□□□□□□□□□□□□□□□□□, □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□.

□□□□: http://hk2.php.net/features.safe-mode

□Apache□httpd.conf□VirtualHost□□□□□□□□(□□□□□□□□□□□□□□):
php_admin_flag safe_mode On (□□□□□□□)
php_admin_flag safe_mode Off (□□□□□□□)
□□□
php_admin_value safe_mode 1 (□□□□□□□)
php_admin_value safe_mode 0 (□□□□□□□)

□□□□: □□□□□□□□□□□□□□□□□safe_mode□□□,□□□□□□□□□□□□□□□□□□□□□□□safe_mode□□□,□□□□□□□□□□□□□□□□□□,□□□□□□□safe_mode□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□□safe_mode□□□□□□□□□, □□□□□□□□□□□□□□□□□□□□□□□□, □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□safe_mode□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□□□□. □□,□□□□□□□□□□□□□□□□□□,□□

□□□ Administrator
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□□□□□□□□□safe_mode□□□□.

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(2) safe_mode_include_dir: □□UID/GID□□□□□

□□□□□□(1)□□□□□□□PHP□□□□□□□,PHP□□□□□□□□□□□□□□□
□□□□□□□□□□□UID/GID□□□□□□: □□□□□□□□□□□□UID□GID,□□
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□□□□□□□□□□□□□□□□□PHP□□□□□□□□), □□□□□□□□□□□□.

□□□safe_mode_include_dir□□□□□□□□□□, □PHP□□□□□□□□□□□□□
□(□□□□□□include_path□□□□□□□□□□□), □□□□□UID/GID□□,□□□
□□□□□UID/GID□□□□□.

□PHP4.2.0□□, □□□□□□□□□□□include_path□□□□□□□, □□□□□□□
□□□□, □□□□□□□□□□□□□□. □open_basedir□□, □□□□□□□□□□
□□□□□□□□□□□,□□□□□□□□□□□□□□.

□□□□□□: “safe_mode_include_dir = /dir/incl”, □□□□□PHP□□□□□□□□
□□ “/dir/include”□“/dir/incls” □□(□□□□□□□□□). □□, □□□□□□□□
□□□□□□□□□□□□□, □□□□□□□□□□□□□□□□□□□□□□, □□:
“safe_mode_include_dir = /dir/incl/”

□□□: VirtualHost□□□□□php.ini□□safe_mode_include_dir□□.

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(3) open_basedir: □□□□□□□□□□□□□□□□□□;

□□□php.ini□□□□□□□□□□□□:
; open_basedir, if set, limits all file operations to the defined directory
; 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.
open_basedir = .

open_basedir□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□”.”□□□□□□□。 □□□open_basedir□□□□□□□□□□□,□□□□□□。 □□□□: □”open_basedir = /dir/user”, □□□□ “/dir/user” □ “/dir/user1”□□ □□□□□。 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□。 □□□□□: “open_basedir = /dir/user/”

open_basedir□□□□□□□□□□□, □Windows□□□□□□□□,□□□□□□□□□ □□□□□。 □□□□□Apache□□□□□□□□□□open_basedir□□□□□□。

□□□□□□□□Apache□□□□□□□□□□□□□□□:

(a) □Apache□httpd.conf□Directory□□□□□□□:

    php_admin_value open_basedir /usr/local/apache/htdocs/
#□□□□□□□□□□□□:
    php_admin_value open_basedir /usr/local/apache/htdocs/:/tmp/

(b) □Apache□httpd.conf□VirtualHost□□□□□□□:

php_admin_value open_basedir /usr/local/apache/htdocs/
#□□□□□□□□□□□□:

php_admin_value open_basedir /var/www/html/:/var/tmp/

(c) □□VirtualHost□□□□open_basedir□□, □□□□□□□□□□□□□□□php.ini □□open_basedir□□□□,□□□□□□□□□□□□□□, □□□□□□□□VirtualHost □□□□□□□. □□,□□□php.ini□□□open_basedir = .:/tmp/, □□□□□□□□ □□□□□□(□PHP□□□□□□□□□□)□/tmp/□□.

□□□: □□php.ini□□□□□□□□□□□□□□/tmp/, □□□□open_basedir□□□□ □□/tmp/,□□□□□□□□□. □□php□□□□"open_basedir restriction in effect" □□□□, □move_uploaded_file()□□□□□□□□□□□/tmp/□□□□□□□□,□□□ □□□□□□□□□.

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(4) disable_functions: □□□□□□□□□□(□□□□□□□□□□□□□□□□□);

□□□□□□□□□□□□□□□□□□□□□□□□□□(□□□□□□□□□□□□□),□□:
disable_functions = shell_exec,system,exec,passthru,show_source,get_cfg_var

disable_functions□□□□□□□□□□□□□□□□□, □□□□□□□□□□□,□□□□ □□□php.ini□□□□□□□□, □□□□□□□httpd.conf□□□□□□□□□□□□□.

□php-4.0.1□□□php.ini□□□□□□□□, □□□□□□□□, □□□□□□□□□□ □□□□□□□□□□□□□, □□: passthru,exec,system,popen □□. □□□php.ini □□□ disable_functions = passthru,exec,system,popen □□□, PHP□□□□□□□ □□□□□□□□□□: Warning: system() has been disabled for security reasons

□□□□□□□□□□□□□□□□□□□□□□:

□□□□PHP□□□□□□□□perl□□□,□□□□□□□shell_exec□□□□□□□□□ □□, □□□□□□□□(")□□□□□□□□□□□script□□, □□□□□□□□□□□□.

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□□,□□□□□□□□□□□□□,□□□□□□□□□□□□□□ `cat /etc/passwd` □□□
□□□□□□□□□□□□□□□□. □□□□□□□□□□□ISP□□□□□, □□□□□□□
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□□□□□□□□□□□□□□. □□□□□□□Linux□□□PHP□□□□□“□□□script
□□,□□□□□□PHP.INI□□□: disable_functions = shell_exec,system,exec □□□
PHP□□□□□□□□□.

□□□□□□□□,□□□□□□□:

disable_functions = shell_exec,system,exec,passthru,show_source,get_cfg_var

□□□□□□□□□,□□□□□□:

disable_functions = shell_exec,system,exec,passthru

PHP□□□□□□□□□□□□□□□□:
unlink,mkdir,touch,fgets,popen,proc_open,link,symlink,phpinfo
□□: □□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□.

□□□: disable_functions□□□□□php.ini□□□□□□,□□□□□□□□□httpd.conf
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□。

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5) register_globals: □□□□□□□□□;

register_globals = On (□□□□□□□□□□)
register_globals = Off (□□□□□□□□□□)

□□□□□,□□□□□HTML□□□□□HTTP□□,□□□GET,POST□COOKIE□□(□□□GPC)
□. □PHP□□□□□□□□□□□□□□□□□□□,□□□□□□php.ini□□□□□□□□□

□□,□□register_globals□□□□□□.

□□□□,register_globals□□□□□□□□□□□□□□, □□□□□□□On□□□, □□□□□□□□□□□□□□□□□□□□□□□□,□□□□□□□□□□□PHP□□□□□□□;□□□□□Off□□□,PHP□□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□□□□□.

□PHP4.3.0□□,register_globals□□□□□□□□□□Off; □□□□□□,register_globals□□□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□□.

□□□: □□□□□ register_globals = Off □□,□□□□□□□PHP□□□□□□

□URL□□□□□□□□□,□□□□□□PHP□□session□cookie□□□. □□□register_globals□, PHP□□□□□□□□□□□□□□□□□session□cookie(□□$_SESSION[]□$_COOKIE). □□□□session□□□□□□□□□□,□□□□□session_register()□□□□□□□□□□□□,□□□□□(□□□□□□□□□□□□PHP□□□□□Session handling functions□□□□□□).

□□register_globals□□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□□□. □□□□□□□□register_globals,□□□□□□□□□□□□$_GET,$_POST□$_COOKIE□□□□,□□□□□□□GET,POST□COOKIE□□□PHP□□□□□□□□. □□□□□PHP□□□□□□□□□□□□□□(□□□□□□□□□□□□COOKIE□□□□□□□□□),□□□□□□□□□□□□URL□□□□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□.

□□,□□□□□□□□□□□□□□□□□□□□□□PHP□□, □□: ,□□□□□□□□□□□□□□□□□□□□,□□□□□□□□register_globals□□□□□□□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□□□□.

□□□□□: □PHP4.2.0□,PHP□□□□□register_globals□□□□□□□□off□,PHP□□□□□□□□□□□□□□□,□□□□□□□□□□□□,□□superglobals。

□Apache□ httpd.conf□ VirtualHost□□□□□□□□:

```
php_admin_flag register_globals on
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php_admin_value register_globals 1

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6) magic_quotes_gpc:

magic_quotes_gpc = On
magic_quotes_gpc = Off

magic_quotes_gpc php , ON, , GET,POST,COOKIE (’”),NULL , SQL ,XSS 。

php.ini magic_quotes_gpc (On) , GET,POST,COOKIE addslashes() . magic_quotes_gpc , PHP (), , (’) , SQL . SQL , , , , LINUX .

: PHP ,addslashes() , stripslashes() . , , . PHP MySQL , : mysql_real_escape_string(); .

Apache httpd.conf VirtualHost :

php_admin_flag magic_quotes_gpc on
php_admin_value magic_quotes_gpc 1

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7) allow_url_fopen□ allow_url_include: □□□□□□□□□

allow_url_fopen = On (□□□□URL□□,□□□□)
allow_url_fopen = Off (□□□□URL□□)
allow_url_include = Off (□□□□URL□□,□□□□□□□,□□□□)
allow_url_include = On (□□□□URL□□,□□□□□□□)

allow_url_fopen □□□□□□□□□URL□□□fopen□□□□, □□PHP□□□□□□URL □□(□□□□□). □□□□□□□□□□□ftp□ http□□□□□□□□□,□□□□□□□ zlib□□□□□□□□□□□□□. allow_url_include□□□□□□PHP□□□□□□□□□□, □□□□fopen□ include□□□□□□□□,□□PHP5.20□□□□□□□□□□.

□□□□□□□□,PHP□□□□□□□□□□□□□□□□□□□□□□□□□□, □□□□□□□□□□□□, □□□□(Include)URL□□□□,□□PHP□□□□□□□□□□□□□□□□□□□□, □□□□□ □□□□□□□□□□□□□□□□□□□□□□(Remote URL Include vulnerabilities), □□□□ □□□□□□□php.ini□□□□□□□□.

PHP□□□□□□□□PHP6□□□□□□allow_url_include,□□□□□□□□□□□□□PHP5.20□ □□□. □□allow_url_include□□□□□□□□(Include)□□□, □□□□□□□□□□□□ □□□□□□□□□fopen□□□□□□□□□□, □□□□□□□□□□□include□□□□□□□□□. □□□□□□PHP□ allow_url_fopen□□□□□□□□□,□ allow_url_include□□□□□□□□.

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□□□LINUX□□□□□□□,□□□□□□□□□□□□□□□□□□, □□□□□IPTABLES□□□□

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□□□: □□PHP4.0.3□□□□□□□□□□□php.ini□□□□□□□allow_url_fopen□□, □PHP4.0.3□□□□□□□, □□□□□□□□□□□□□ –disable-url-fopen-wrapper□ □□□□□. Windows□□PHP□4.3□□□□,□□□□: include, include_once, require, require_once □□□□□□□□□□,□PHP4.3□□□□□□□□□□□□□□□□□□□□□□.

□Apache□httpd.conf□VirtualHost□□□□□□□:

php_admin_flag allow_url_fopen Off
php_admin_flag allow_url_include Off
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php_admin_value allow_url_fopen 0
php_admin_value allow_url_include 0

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Error handling and logging: □□□□□□□

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display_errors = On (□□□□□□)
display_errors = Off (□□□□□□)

PHP□□□□□□□□□□□□□□,□□□□□□□□□□□, □□□PHP□□□□□,□□□□□ □□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□,□□ □□□□□□□□□□,□□□□□□□□□□□□□□□□□□□□□.

□□PHP□□□□□□□□□□□□□□,□□□□□□□□□□□□□□□□□□□,□□:
log_errors = Off (PHP □□□□□□□□□□□)
log_errors = On (□□□□□□□□□□□□□□)

□□□□□□□□□,□□□□□□□□□□□□,□□□PHP□□□□□□□□□□□□□□:
;error_log = filename (□□□□□”;”□□□□□□□□□□)

error_log = /var/log/php_error.log
□□□filename□□□□□□”/var/log/php_error.log”, □□□□□□,□□□PHP□□□
□□□□□□□□□□□?□。

□Apache□ httpd.conf□ VirtualHost□□□□□□□:

php_admin_flag display_errors Off
□□□
php_admin_value display_errors 0

□□□□□,□□□□□□□□VirtualHost□□□□□□□□□□:
ErrorLog logs/mydomain.com-error_log

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PHP□□□□□□□:

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php.ini□□□□□□□□:
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safe_mode = On
allow_url_fopen = Off
allow_url_include = Off
register_globals = Off
magic_quotes_gpc = On
display_errors = Off

disable_functions = shell_exec,system,exec,passthru,show_source,get_cfg_var
#□□,□□□□□□□□□□□□□□□□□□□□□:
disable_functions = shell_exec,system,exec,passthru

open_basedir = .

VirtualHost :

ServerAdmin [email]webmaster@mydomain[/email]
DocumentRoot /home/hosting/mydomain/public_html
ServerName mydomain.com
ServerAlias www.mydomain.com
php_admin_value safe_mode 1
php_admin_value allow_url_fopen 0
php_admin_value allow_url_include 0
php_admin_value register_globals 1
php_admin_value magic_quotes_gpc 1
php_admin_value display_errors 0
php_admin_value open_basedir /home/hosting/mydomain/
ErrorLog logs/mydomain.com-error_log
CustomLog logs/mydomain.com-access_log common

#:

ServerAdmin [email]webmaster@mydomain[/email]
DocumentRoot /home/hosting/hung25ucom/public_html
ServerName mydomain.com
ServerAlias www.mydomain.com
php_admin_flag safe_mode On
php_admin_flag allow_url_fopen Off
php_admin_flag allow_url_include Off
php_admin_flag register_globals On
php_admin_flag magic_quotes_gpc On
php_admin_flag display_errors Off
php_admin_value open_basedir /home/hosting/mydomain/
ErrorLog logs/mydomain.com-error_log
CustomLog logs/mydomain.com-access_log common

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