**Konfigurasi Sister**

**HAproxy dengan Algoritma Round Robin Serta Penerapan Cache**

**File**

Ihsan Pratama 177006094

Dewi Wulan Sari 177006021

1. Konfigurasi Haproxy
2. Konfigurasi mysql
3. Konfigurasi pada file Database.php untuk cachenya
4. Konfigirasi File Config.php untuk dynamic base url nya
5. **Konfigurasi Haproxy**

Setelah mengisntall haproxy buka file konfigurasi haproxy di direktori

|  |
| --- |
| **nano /etc/haproxy/haproxy.cfg** |

kemudian setting seperti dibawah ini

|  |
| --- |
| Global  log /dev/log local0  log /dev/log local1 notice  chroot /var/lib/haproxy  stats socket /run/haproxy/admin.sock mode 660 level admin expose-fd listeners  stats timeout 30s  user haproxy  group haproxy  daemon  # Default SSL material locations  ca-base /etc/ssl/certs  crt-base /etc/ssl/private  # Default ciphers to use on SSL-enabled listening sockets.  # For more information, see ciphers(1SSL). This list is from:  # https://hynek.me/articles/hardening-your-web-servers-ssl-ciphers/  # An alternative list with additional directives can be obtained from  # https://mozilla.github.io/server-side-tls/ssl-config-generator/?server=haproxy  ssl-default-bind-ciphers ECDH+AESGCM:DH+AESGCM:ECDH+AES256:DH+AES256:ECDH+  AES128:DH+AES:RSA+AESGCM:RSA+AES:!aNU$  ssl-default-bind-options no-sslv3  defaults  log global  mode http  # Default ciphers to use on SSL-enabled listening sockets.  # For more information, see ciphers(1SSL). This list is from:  # https://hynek.me/articles/hardening-your-web-servers-ssl-ciphers/  # An alternative list with additional directives can be obtained from  # https://mozilla.github.io/server-side-tls/ssl-config-generator/?server=haproxy  ssl-default-bind-ciphers ECDH+AESGCM:DH+AESGCM:ECDH+AES256:DH+AES256:ECDH+AES128:DH+AES:RSA+AESGCM:RSA+AES:!aNU$  ssl-default-bind-options no-sslv3  defaults  log global  mode http  option httplog  option dontlognull  timeout connect 5000  timeout client 50000  timeout server 50000  errorfile 400 /etc/haproxy/errors/400.http  errorfile 403 /etc/haproxy/errors/403.http  errorfile 408 /etc/haproxy/errors/408.http  errorfile 500 /etc/haproxy/errors/500.http  errorfile 502 /etc/haproxy/errors/502.http  errorfile 503 /etc/haproxy/errors/503.http  errorfile 504 /etc/haproxy/errors/504.http  frontend Local\_Server  bind 192.168.43.223:80  mode http  default\_backend My\_Web\_Servers  backend My\_Web\_Servers  balance roundrobin  mode http  #option forwardfor  #http-request set-header X-Forwarded-Port %[dst\_port]  #http-request add-header X-Forwarded-Proto https if { ssl\_fc }  #option httpchk HEAD / HTTP/1.1rnHost:localhost  server web1.ihsan.com 192.168.43.223:8888 check  server web2.dewi.com 192.168.43.146:8888 check |

Untuk memverifikasi bahwa konfigurasinya valid / belum gunakan perintah dibawah ini

|  |
| --- |
| haproxy -c -f /etc/haproxy/haproxy.cfg |



1. **Konfigurasi Mysql**

Buka pada direktori



Lalu untuk konfigurasinya seperti ini

|  |
| --- |
| #  # The MySQL database server configuration file.  #  # You can copy this to one of:  # - "/etc/mysql/my.cnf" to set global options,  # - "~/.my.cnf" to set user-specific options.  #  # One can use all long options that the program supports.  # Run program with --help to get a list of available options and with  # --print-defaults to see which it would actually understand and use.  #  # For explanations see  # http://dev.mysql.com/doc/mysql/en/server-system-variables.html  # This will be passed to all mysql clients  # It has been reported that passwords should be enclosed with ticks/quotes  # escpecially if they contain "#" chars...  # Remember to edit /etc/mysql/debian.cnf when changing the socket location.  # Here is entries for some specific programs  # The following values assume you have at least 32M ram  [mysqld\_safe]  socket = /var/run/mysqld/mysqld.sock  nice = 0  [mysqld]  #  # \* Basic Settings  #  user = mysql  pid-file = /var/run/mysqld/mysqld.pid  socket = /var/run/mysqld/mysqld.sock  port = 3306  basedir = /usr  datadir = /var/lib/mysql  tmpdir = /tmp  lc-messages-dir = /usr/share/mysql  skip-external-locking  # The following values assume you have at least 32M ram  [mysqld\_safe]  socket = /var/run/mysqld/mysqld.sock  nice = 0  [mysqld]  #  # \* Basic Settings  #  user = mysql  pid-file = /var/run/mysqld/mysqld.pid  socket = /var/run/mysqld/mysqld.sock  port = 3306  basedir = /usr  datadir = /var/lib/mysql  tmpdir = /tmp  lc-messages-dir = /usr/share/mysql  skip-external-locking  #  # Instead of skip-networking the default is now to listen only on  # localhost which is more compatible and is not less secure.  bind-address = 192.168.43.223  bind-address = 0.0.0.0  skip-name-resolve  #  # \* Fine Tuning  #  key\_buffer\_size = 16M  max\_allowed\_packet = 16M  thread\_stack = 192K  thread\_cache\_size = 8  # This replaces the startup script and checks MyISAM tables if needed  # the first time they are touched  myisam-recover-options = BACKUP  #max\_connections = 100  #table\_open\_cache = 64  #thread\_concurrency = 10  #  # Instead of skip-networking the default is now to listen only on  # localhost which is more compatible and is not less secure.  bind-address = 192.168.43.223  bind-address = 0.0.0.0  skip-name-resolve  #  # \* Fine Tuning  #  key\_buffer\_size = 16M  max\_allowed\_packet = 16M  thread\_stack = 192K  thread\_cache\_size = 8  # This replaces the startup script and checks MyISAM tables if needed  # the first time they are touched  myisam-recover-options = BACKUP  #max\_connections = 100  #table\_open\_cache = 64  #thread\_concurrency = 10  #  # \* Query Cache Configuration  #  query\_cache\_limit = 1M  query\_cache\_size = 16M  #  # \* Logging and Replication  #  # Both location gets rotated by the cronjob.  # Be aware that this log type is a performance killer.  # As of 5.1 you can enable the log at runtime!  #general\_log\_file = /var/log/mysql/mysql.log  #general\_log = 1  #  # Error log - should be very few entries.  #  log\_error = /var/log/mysql/error.log  #  # Here you can see queries with especially long duration  #slow\_query\_log = 1  #slow\_query\_log\_file = /var/log/mysql/mysql-slow.log  #  query\_cache\_limit = 1M  query\_cache\_size = 16M  #  # \* Logging and Replication  #  # Both location gets rotated by the cronjob.  # Be aware that this log type is a performance killer.  # As of 5.1 you can enable the log at runtime!  #general\_log\_file = /var/log/mysql/mysql.log  #general\_log = 1  #  # Error log - should be very few entries.  #  log\_error = /var/log/mysql/error.log  #  # Here you can see queries with especially long duration  #slow\_query\_log = 1  #slow\_query\_log\_file = /var/log/mysql/mysql-slow.log  #long\_query\_time = 2  #log-queries-not-using-indexes  #  # The following can be used as easy to replay backup logs or for replication.  # note: if you are setting up a replication slave, see README.Debian about  # other settings you may need to change.  server-id = 1  log\_bin = /var/log/mysql/mysql-bin.log  expire\_logs\_days = 10  max\_binlog\_size = 100M  binlog\_do\_db = db\_perpustakaan  #binlog\_ignore\_db = include\_database\_name  #  # \* InnoDB  #  # InnoDB is enabled by default with a 10MB datafile in /var/lib/mysql/.  # Read the manual for more InnoDB related options. There are many!  #  # \* Security Features  #  #log-queries-not-using-indexes  #  # The following can be used as easy to replay backup logs or for replication.  # note: if you are setting up a replication slave, see README.Debian about  # other settings you may need to change.  server-id = 1  log\_bin = /var/log/mysql/mysql-bin.log  expire\_logs\_days = 10  max\_binlog\_size = 100M  binlog\_do\_db = db\_perpustakaan  #binlog\_ignore\_db = include\_database\_name  #  # \* InnoDB  #  # InnoDB is enabled by default with a 10MB datafile in /var/lib/mysql/.  # Read the manual for more InnoDB related options. There are many!  #  # \* Security Features  #  # Read the manual, too, if you want chroot!  # chroot = /var/lib/mysql/  #  # For generating SSL certificates I recommend the OpenSSL GUI "tinyca".  #  # ssl-ca=/etc/mysql/cacert.pem  # ssl-cert=/etc/mysql/server-cert.pem  # ssl-key=/etc/mysql/server-key.pem |

1. **Konfigurasi Pada Database.php untuk Cache File**

Database.php

|  |
| --- |
| <?php  **defined**('BASEPATH') OR exit('No direct script access allowed');  $active\_group = 'default';  $query\_builder = TRUE;  $db['default'] = **array**(      'dsn'   => '',      'hostname' => '192.168.27.1',      'username' => 'ihsan',      'password' => 'ihsanp1',      'database' => 'db\_perpustakaan',      'dbdriver' => 'mysqli',      'dbprefix' => '',      'pconnect' => FALSE,      'db\_debug' => (ENVIRONMENT !== 'production'),      'cache\_on' => TRUE,      'cachedir' => 'application/cache',      'char\_set' => 'utf8',      'dbcollat' => 'utf8\_general\_ci',      'swap\_pre' => '',      'encrypt' => FALSE,      'compress' => FALSE,      'stricton' => FALSE,      'failover' => **array**(),      'save\_queries' => TRUE  ); |

1. **Untuk konfigirasi dynamic base url nya pada**

Config.php

|  |
| --- |
| <?php  **defined**('BASEPATH') or exit('No direct script access allowed');  */\**  *|--------------------------------------------------------------------------*  *| Base Site URL*  *|--------------------------------------------------------------------------*  *|*  *| URL to your CodeIgniter root. Typically this will be your base URL,*  *| WITH a trailing slash:*  *|*  *|   http://example.com/*  *|*  *| WARNING: You MUST set this value!*  *|*  *| If it is not set, then CodeIgniter will try guess the protocol and path*  *| your installation, but due to security concerns the hostname will be set*  *| to $\_SERVER['SERVER\_ADDR'] if available, or localhost otherwise.*  *| The auto-detection mechanism exists only for convenience during*  *| development and MUST NOT be used in production!*  *|*  *| If you need to allow multiple domains, remember that this file is still*  *| a PHP script and you can easily do that on your own.*  *|*  *\*/*  $root = "http://" . $\_SERVER['HTTP\_HOST'];  $root .= **str\_replace**(**basename**($\_SERVER['SCRIPT\_NAME']), "", $\_SERVER['SCRIPT\_NAME']);  $config['base\_url']    = "$root";  */\**  *|--------------------------------------------------------------------------*  *| Index File*  *|--------------------------------------------------------------------------*  *|*  *| Typically this will be your index.php file, unless you've renamed it to*  *| something else. If you are using mod\_rewrite to remove the page set this*  *| variable so that it is blank.*  *|*  *\*/*  $config['index\_page'] = 'index.php';  */\**  *|--------------------------------------------------------------------------*  *| URI PROTOCOL*  *|--------------------------------------------------------------------------*  *|*  *| This item determines which server global should be used to retrieve the*  *| URI string.  The default setting of 'REQUEST\_URI' works for most servers.*  *| If your links do not seem to work, try one of the other delicious flavors:*  *|*  *| 'REQUEST\_URI'    Uses $\_SERVER['REQUEST\_URI']*  *| 'QUERY\_STRING'   Uses $\_SERVER['QUERY\_STRING']*  *| 'PATH\_INFO'      Uses $\_SERVER['PATH\_INFO']*  *|*  *| WARNING: If you set this to 'PATH\_INFO', URIs will always be URL-decoded!*  *\*/*  $config['uri\_protocol']    = 'REQUEST\_URI';  */\**  *|--------------------------------------------------------------------------*  *| URL suffix*  *|--------------------------------------------------------------------------*  *|*  *| This option allows you to add a suffix to all URLs generated by CodeIgniter.*  *| For more information please see the user guide:*  *|*  *| https://codeigniter.com/user\_guide/general/urls.html*  *\*/*  $config['url\_suffix'] = '';  */\**  *|--------------------------------------------------------------------------*  *| Default Language*  *|--------------------------------------------------------------------------*  *|*  *| This determines which set of language files should be used. Make sure*  *| there is an available translation if you intend to use something other*  *| than english.*  *|*  *\*/*  $config['language']    = 'english';  */\**  *|--------------------------------------------------------------------------*  *| Default Character Set*  *|--------------------------------------------------------------------------*  *|*  *| This determines which character set is used by default in various methods*  *| that require a character set to be provided.*  *|*  *| See http://php.net/htmlspecialchars for a list of supported charsets.*  *|*  *\*/*  $config['charset'] = 'UTF-8';  */\**  *|--------------------------------------------------------------------------*  *| Enable/Disable System Hooks*  *|--------------------------------------------------------------------------*  *|*  *| If you would like to use the 'hooks' feature you must enable it by*  *| setting this variable to TRUE (boolean).  See the user guide for details.*  *|*  *\*/*  $config['enable\_hooks'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Class Extension Prefix*  *|--------------------------------------------------------------------------*  *|*  *| This item allows you to set the filename/classname prefix when extending*  *| native libraries.  For more information please see the user guide:*  *|*  *| https://codeigniter.com/user\_guide/general/core\_classes.html*  *| https://codeigniter.com/user\_guide/general/creating\_libraries.html*  *|*  *\*/*  $config['subclass\_prefix'] = 'MY\_';  */\**  *|--------------------------------------------------------------------------*  *| Composer auto-loading*  *|--------------------------------------------------------------------------*  *|*  *| Enabling this setting will tell CodeIgniter to look for a Composer*  *| package auto-loader script in application/vendor/autoload.php.*  *|*  *|   $config['composer\_autoload'] = TRUE;*  *|*  *| Or if you have your vendor/ directory located somewhere else, you*  *| can opt to set a specific path as well:*  *|*  *|   $config['composer\_autoload'] = '/path/to/vendor/autoload.php';*  *|*  *| For more information about Composer, please visit http://getcomposer.org/*  *|*  *| Note: This will NOT disable or override the CodeIgniter-specific*  *|   autoloading (application/config/autoload.php)*  *\*/*  $config['composer\_autoload'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Allowed URL Characters*  *|--------------------------------------------------------------------------*  *|*  *| This lets you specify which characters are permitted within your URLs.*  *| When someone tries to submit a URL with disallowed characters they will*  *| get a warning message.*  *|*  *| As a security measure you are STRONGLY encouraged to restrict URLs to*  *| as few characters as possible.  By default only these are allowed: a-z 0-9~%.:\_-*  *|*  *| Leave blank to allow all characters -- but only if you are insane.*  *|*  *| The configured value is actually a regular expression character group*  *| and it will be executed as: ! preg\_match('/^[<permitted\_uri\_chars>]+$/i*  *|*  *| DO NOT CHANGE THIS UNLESS YOU FULLY UNDERSTAND THE REPERCUSSIONS!!*  *|*  *\*/*  $config['permitted\_uri\_chars'] = 'a-z 0-9~%.:\_\-';  */\**  *|--------------------------------------------------------------------------*  *| Enable Query Strings*  *|--------------------------------------------------------------------------*  *|*  *| By default CodeIgniter uses search-engine friendly segment based URLs:*  *| example.com/who/what/where/*  *|*  *| You can optionally enable standard query string based URLs:*  *| example.com?who=me&what=something&where=here*  *|*  *| Options are: TRUE or FALSE (boolean)*  *|*  *| The other items let you set the query string 'words' that will*  *| invoke your controllers and its functions:*  *| example.com/index.php?c=controller&m=function*  *|*  *| Please note that some of the helpers won't work as expected when*  *| this feature is enabled, since CodeIgniter is designed primarily to*  *| use segment based URLs.*  *|*  *\*/*  $config['enable\_query\_strings'] = FALSE;  $config['controller\_trigger'] = 'c';  $config['function\_trigger'] = 'm';  $config['directory\_trigger'] = 'd';  */\**  *|--------------------------------------------------------------------------*  *| Allow $\_GET array*  *|--------------------------------------------------------------------------*  *|*  *| By default CodeIgniter enables access to the $\_GET array.  If for some*  *| reason you would like to disable it, set 'allow\_get\_array' to FALSE.*  *|*  *| WARNING: This feature is DEPRECATED and currently available only*  *|          for backwards compatibility purposes!*  *|*  *\*/*  $config['allow\_get\_array'] = TRUE;  */\**  *|--------------------------------------------------------------------------*  *| Error Logging Threshold*  *|--------------------------------------------------------------------------*  *|*  *| You can enable error logging by setting a threshold over zero. The*  *| threshold determines what gets logged. Threshold options are:*  *|*  *|   0 = Disables logging, Error logging TURNED OFF*  *|   1 = Error Messages (including PHP errors)*  *|   2 = Debug Messages*  *|   3 = Informational Messages*  *|   4 = All Messages*  *|*  *| You can also pass an array with threshold levels to show individual error types*  *|*  *|   array(2) = Debug Messages, without Error Messages*  *|*  *| For a live site you'll usually only enable Errors (1) to be logged otherwise*  *| your log files will fill up very fast.*  *|*  *\*/*  $config['log\_threshold'] = 0;  */\**  *|--------------------------------------------------------------------------*  *| Error Logging Directory Path*  *|--------------------------------------------------------------------------*  *|*  *| Leave this BLANK unless you would like to set something other than the default*  *| application/logs/ directory. Use a full server path with trailing slash.*  *|*  *\*/*  $config['log\_path'] = '';  */\**  *|--------------------------------------------------------------------------*  *| Log File Extension*  *|--------------------------------------------------------------------------*  *|*  *| The default filename extension for log files. The default 'php' allows for*  *| protecting the log files via basic scripting, when they are to be stored*  *| under a publicly accessible directory.*  *|*  *| Note: Leaving it blank will default to 'php'.*  *|*  *\*/*  $config['log\_file\_extension'] = '';  */\**  *|--------------------------------------------------------------------------*  *| Log File Permissions*  *|--------------------------------------------------------------------------*  *|*  *| The file system permissions to be applied on newly created log files.*  *|*  *| IMPORTANT: This MUST be an integer (no quotes) and you MUST use octal*  *|            integer notation (i.e. 0700, 0644, etc.)*  *\*/*  $config['log\_file\_permissions'] = 0644;  */\**  *|--------------------------------------------------------------------------*  *| Date Format for Logs*  *|--------------------------------------------------------------------------*  *|*  *| Each item that is logged has an associated date. You can use PHP date*  *| codes to set your own date formatting*  *|*  *\*/*  $config['log\_date\_format'] = 'Y-m-d H:i:s';  */\**  *|--------------------------------------------------------------------------*  *| Error Views Directory Path*  *|--------------------------------------------------------------------------*  *|*  *| Leave this BLANK unless you would like to set something other than the default*  *| application/views/errors/ directory.  Use a full server path with trailing slash.*  *|*  *\*/*  $config['error\_views\_path'] = '';  */\**  *|--------------------------------------------------------------------------*  *| Cache Directory Path*  *|--------------------------------------------------------------------------*  *|*  *| Leave this BLANK unless you would like to set something other than the default*  *| application/cache/ directory.  Use a full server path with trailing slash.*  *|*  *\*/*  $config['cache\_path'] = '';  */\**  *|--------------------------------------------------------------------------*  *| Cache Include Query String*  *|--------------------------------------------------------------------------*  *|*  *| Whether to take the URL query string into consideration when generating*  *| output cache files. Valid options are:*  *|*  *|   FALSE      = Disabled*  *|   TRUE       = Enabled, take all query parameters into account.*  *|                Please be aware that this may result in numerous cache*  *|                files generated for the same page over and over again.*  *|   array('q') = Enabled, but only take into account the specified list*  *|                of query parameters.*  *|*  *\*/*  $config['cache\_query\_string'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Encryption Key*  *|--------------------------------------------------------------------------*  *|*  *| If you use the Encryption class, you must set an encryption key.*  *| See the user guide for more info.*  *|*  *| https://codeigniter.com/user\_guide/libraries/encryption.html*  *|*  *\*/*  $config['encryption\_key'] = '';  */\**  *|--------------------------------------------------------------------------*  *| Session Variables*  *|--------------------------------------------------------------------------*  *|*  *| 'sess\_driver'*  *|*  *|   The storage driver to use: files, database, redis, memcached*  *|*  *| 'sess\_cookie\_name'*  *|*  *|   The session cookie name, must contain only [0-9a-z\_-] characters*  *|*  *| 'sess\_expiration'*  *|*  *|   The number of SECONDS you want the session to last.*  *|   Setting to 0 (zero) means expire when the browser is closed.*  *|*  *| 'sess\_save\_path'*  *|*  *|   The location to save sessions to, driver dependent.*  *|*  *|   For the 'files' driver, it's a path to a writable directory.*  *|   WARNING: Only absolute paths are supported!*  *|*  *|   For the 'database' driver, it's a table name.*  *|   Please read up the manual for the format with other session drivers.*  *|*  *|   IMPORTANT: You are REQUIRED to set a valid save path!*  *|*  *| 'sess\_match\_ip'*  *|*  *|   Whether to match the user's IP address when reading the session data.*  *|*  *|   WARNING: If you're using the database driver, don't forget to update*  *|            your session table's PRIMARY KEY when changing this setting.*  *|*  *| 'sess\_time\_to\_update'*  *|*  *|   How many seconds between CI regenerating the session ID.*  *|*  *| 'sess\_regenerate\_destroy'*  *|*  *|   Whether to destroy session data associated with the old session ID*  *|   when auto-regenerating the session ID. When set to FALSE, the data*  *|   will be later deleted by the garbage collector.*  *|*  *| Other session cookie settings are shared with the rest of the application,*  *| except for 'cookie\_prefix' and 'cookie\_httponly', which are ignored here.*  *|*  *\*/*  $config['sess\_driver'] = 'files';  $config['sess\_cookie\_name'] = 'ci\_session';  $config['sess\_expiration'] = 7200;  $config['sess\_save\_path'] = NULL;  $config['sess\_match\_ip'] = FALSE;  $config['sess\_time\_to\_update'] = 300;  $config['sess\_regenerate\_destroy'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Cookie Related Variables*  *|--------------------------------------------------------------------------*  *|*  *| 'cookie\_prefix'   = Set a cookie name prefix if you need to avoid collisions*  *| 'cookie\_domain'   = Set to .your-domain.com for site-wide cookies*  *| 'cookie\_path'     = Typically will be a forward slash*  *| 'cookie\_secure'   = Cookie will only be set if a secure HTTPS connection exists.*  *| 'cookie\_httponly' = Cookie will only be accessible via HTTP(S) (no javascript)*  *|*  *| Note: These settings (with the exception of 'cookie\_prefix' and*  *|       'cookie\_httponly') will also affect sessions.*  *|*  *\*/*  $config['cookie\_prefix']    = '';  $config['cookie\_domain']    = '';  $config['cookie\_path']        = '/';  $config['cookie\_secure']    = FALSE;  $config['cookie\_httponly']     = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Standardize newlines*  *|--------------------------------------------------------------------------*  *|*  *| Determines whether to standardize newline characters in input data,*  *| meaning to replace \r\n, \r, \n occurrences with the PHP\_EOL value.*  *|*  *| WARNING: This feature is DEPRECATED and currently available only*  *|          for backwards compatibility purposes!*  *|*  *\*/*  $config['standardize\_newlines'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Global XSS Filtering*  *|--------------------------------------------------------------------------*  *|*  *| Determines whether the XSS filter is always active when GET, POST or*  *| COOKIE data is encountered*  *|*  *| WARNING: This feature is DEPRECATED and currently available only*  *|          for backwards compatibility purposes!*  *|*  *\*/*  $config['global\_xss\_filtering'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Cross Site Request Forgery*  *|--------------------------------------------------------------------------*  *| Enables a CSRF cookie token to be set. When set to TRUE, token will be*  *| checked on a submitted form. If you are accepting user data, it is strongly*  *| recommended CSRF protection be enabled.*  *|*  *| 'csrf\_token\_name' = The token name*  *| 'csrf\_cookie\_name' = The cookie name*  *| 'csrf\_expire' = The number in seconds the token should expire.*  *| 'csrf\_regenerate' = Regenerate token on every submission*  *| 'csrf\_exclude\_uris' = Array of URIs which ignore CSRF checks*  *\*/*  $config['csrf\_protection'] = FALSE;  $config['csrf\_token\_name'] = 'csrf\_test\_name';  $config['csrf\_cookie\_name'] = 'csrf\_cookie\_name';  $config['csrf\_expire'] = 7200;  $config['csrf\_regenerate'] = TRUE;  $config['csrf\_exclude\_uris'] = **array**();  */\**  *|--------------------------------------------------------------------------*  *| Output Compression*  *|--------------------------------------------------------------------------*  *|*  *| Enables Gzip output compression for faster page loads.  When enabled,*  *| the output class will test whether your server supports Gzip.*  *| Even if it does, however, not all browsers support compression*  *| so enable only if you are reasonably sure your visitors can handle it.*  *|*  *| Only used if zlib.output\_compression is turned off in your php.ini.*  *| Please do not use it together with httpd-level output compression.*  *|*  *| VERY IMPORTANT:  If you are getting a blank page when compression is enabled it*  *| means you are prematurely outputting something to your browser. It could*  *| even be a line of whitespace at the end of one of your scripts.  For*  *| compression to work, nothing can be sent before the output buffer is called*  *| by the output class.  Do not 'echo' any values with compression enabled.*  *|*  *\*/*  $config['compress\_output'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Master Time Reference*  *|--------------------------------------------------------------------------*  *|*  *| Options are 'local' or any PHP supported timezone. This preference tells*  *| the system whether to use your server's local time as the master 'now'*  *| reference, or convert it to the configured one timezone. See the 'date*  *| helper' page of the user guide for information regarding date handling.*  *|*  *\*/*  $config['time\_reference'] = 'local';  */\**  *|--------------------------------------------------------------------------*  *| Rewrite PHP Short Tags*  *|--------------------------------------------------------------------------*  *|*  *| If your PHP installation does not have short tag support enabled CI*  *| can rewrite the tags on-the-fly, enabling you to utilize that syntax*  *| in your view files.  Options are TRUE or FALSE (boolean)*  *|*  *| Note: You need to have eval() enabled for this to work.*  *|*  *\*/*  $config['rewrite\_short\_tags'] = FALSE;  */\**  *|--------------------------------------------------------------------------*  *| Reverse Proxy IPs*  *|--------------------------------------------------------------------------*  *|*  *| If your server is behind a reverse proxy, you must whitelist the proxy*  *| IP addresses from which CodeIgniter should trust headers such as*  *| HTTP\_X\_FORWARDED\_FOR and HTTP\_CLIENT\_IP in order to properly identify*  *| the visitor's IP address.*  *|*  *| You can use both an array or a comma-separated list of proxy addresses,*  *| as well as specifying whole subnets. Here are a few examples:*  *|*  *| Comma-separated:  '10.0.1.200,192.168.5.0/24'*  *| Array:        array('10.0.1.200', '192.168.5.0/24')*  *\*/*  $config['proxy\_ips'] = ''; |