## Some commands used:

```
sudo systemctl (start|restart|enable|reload) apache2
```

## Our App Called test.org

- 1- Create a directory for the app in /var/www/test.org
- 2- Create a directory called html for the content of the web app
- 3- Create a .htaccess file
- 4- Create a file /etc/apache2/sites-available/test.org.conf

#### contain:

OR:

```
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
## You can find logs on /var/log/apache2/
```

combined is the format of log you can find more on mod\_log\_config

• Or you can specify you format ex:

```
CustomLog /var/www/test.org/logs/access.log "Browser: ${User-agent}i -- Time: %t -- Method: %m "
```

```
sudo a2ensite test.org.conf
sudo a2dissite 000-default.conf

#############################
!* On /etc/apache2/sites-available

sudo a2ensite new-site.conf --> to enable new website
sudo a2dissite site.conf --> to disable website
```

7- Go to /etc/hosts

```
127.0.0.2 test.org
```

8- Test for errors

```
sudo apache2ctl configtest
# OR
sudo apache2ctl -t
```

9- Go to /etc/apache2/apache2.conf file and put on it:

```
ServerName test.org
```

# Don't forget to allowing .htaccess overrides:

```
<Directory "/var/www/test.org">
    AllowOverride All
</Directory>
```

# Documentation for htaccess file link

To list enabled mods:

```
sudo apache2ctl -M
```

• To `enable|disable`` mods:

sudo a2enmod <mod-name>
sudo a2dismod <mod-name>

# Rewrite mod:

#### Official Documentation

#### Syntaxe:

```
RewriteEngine On
RewriteCond TestString Condition [flags]
RewriteRule Pattern Substitution [flags]
```

#### RewriteCond:

TestString: Typically a server variable which is of the form %{VARIABLE}

Condition: One of the following:

1. Regular Expression

2. String Comparison

3. File/Path Test

#### Flags:

• NC: Case insensitive

OR: logical ' or '

#### RewriteRule:

Pattern: Regular Expression checked against the requested URI which is the part after <a href="http://hostname">http://hostname</a>

Substitution: One of the following

- Modification to the part matched by the pattern
- Absolute path to a file

- Full URL to redirect to
- A dash "-" to do nothing

#### Flags:

- F: forrbeiden (403)
- L: last

## **Examples:**

```
## When the referer was "siradj.com" give a 403 forbidden
RewriteEngine on
RewriteCond %{HTTP REFERER} siradj.com [NC]
RewriteRule .* - [F,L]
## Block oth "HEAD" and "POST" request methods
RewriteCond %{REQUEST METHOD} (POST|HEAD) [NC]
RewriteRule .* - [F,L]
# Set time zone
SetEnv TZ America/Los_Angeles
## Create an error page to display it when the user requets a wrong page
ErrorDocument 404 /errors/404.php
## Block request from specific User-Agent
RewriteEngine on
RewriteCond %{HTTP_USER_AGENT} (siradj|Botname2|Botname3) [NC]
RewriteRule (.*) - [F,L]
## Redirect all files and pages to the home page "index.php"
RewriteCond %{SCRIPT FILENAME} !-f
RewriteCond %{SCRIPT FILENAME} !-d
RewriteRule . index.php [NC,L]
## ex: GET http://test.org/facebook -Redirect-> https://www.facebook.com
RewriteRule [a-z]+ https://www.$0.com [L]
```