INSTALACION NGINX

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
david@david:~$ wget https://mirrors.edge.kernel.org/ubuntu/pool/multiverse/liba/libapache-mod-fastcg
i/libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb
--2023-10-06 10:36:13--  https://mirrors.edge.kernel.org/ubuntu/pool/multiverse/liba/libapache-mod-f
astcgi/libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb
Resolving mirrors.edge.kernel.org (mirrors.edge.kernel.org)... 147.75.80.249, 2604:1380:4601:e00::3
Connecting to mirrors.edge.kernel.org (mirrors.edge.kernel.org)|147.75.80.249|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 48902 (48K) [application/octet-stream]
Saving to: 'libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb'

libapache2-mod-fastcgi_2 100%[===================================>]  47,76K  --.-KB/s    in 0,03s

2023-10-06 10:36:13 (1,46 MB/s) - 'libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb' saved [489
02/48902]

david@david:~$ sudo dpgk -i libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb
sudo: dpgk: command not found
david@david:~$ sudo dpkg -i libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb
Seleccionando el paquete libapache2-mod-fastcgi previamente no seleccionado.
(Leyendo la base de datos ... 117046 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar libapache2-mod-fastcgi_2.4.7~0910052141-1.2_amd64.deb ...
Desempaquetando libapache2-mod-fastcgi (2.4.7~0910052141-1.2) ...
Configurando libapache2-mod-fastcgi (2.4.7~0910052141-1.2) ...
apache2_invoke: Enable module fastcgi
david@david:~$ sudo mv /etc/apache2/ports.conf /ect/apache2/ports.conf.default
mv: cannot move '/etc/apache2/ports.conf' to '/ect/apache2/ports.conf.default': No such file or dire
ctory
david@david:~$ sudo mv /etc/apache2/ports.conf /ect/apache2/ports.conf.default
mv: cannot move '/etc/apache2/ports.conf' to '/ect/apache2/ports.conf.default': No such file or dire
ctory
david@david:~$ sudo mv /etc/apache2/ports.conf /etc/apache2/ports.conf.default
david@david:~$ echo "Listen 8080" | sudo tee /ect/apache2/ports.conf
tee: /ect/apache2/ports.conf: No such file or directory
Listen 8080
david@david:~$
```

```
david@david:~$ sudo a2dissite 000-default
Site 000-default disabled.
To activate the new configuration, you need to run:
  systemctl reload apache2
david@david:~$ sudo cp /etc/apache2/sites-available/ooo-default.conf /etc/apache2/sites-available/00
1-default.conf
cp: cannot stat '/etc/apache2/sites-available/ooo-default.conf': No such file or directory
david@david:~$ sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/00
1-default.conf
david@david:~$ _
```

```
  GNU nano 6.2                    /etc/apache2/sites-available/001-default.conf
<VirtualHost *:8080>
        # The ServerName directive sets the request scheme, hostname and port that
        # the server uses to identify itself. This is used when creating
        # redirection URLs. In the context of virtual hosts, the ServerName
        # specifies what hostname must appear in the request's Host: header to
        # match this virtual host. For the default virtual host (this file) this
        # value is not decisive as it is used as a last resort host regardless.
        # However, you must set it for any further virtual host explicitly.
        #ServerName www.example.com

        ServerAdmin webmaster@localhost
        DocumentRoot /home/david/htdocs

        # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn

        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For example the
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet




david@david:~$
```

```
david@david:~$ sudo a2ensite 001-default
Enabling site 001-default.
To activate the new configuration, you need to run:
  systemctl reload apache2
david@david:~$ sudo systemctl reload apache2
david@david:~$ sudo netstat -tlpn
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.53:53           0.0.0.0:*               LISTEN      832/systemd-resolve
tcp        0      0 127.0.0.1:33060         0.0.0.0:*               LISTEN      945/mysqld
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      912/sshd: /usr/sbin
tcp        0      0 127.0.0.1:3306          0.0.0.0:*               LISTEN      945/mysqld
tcp6       0      0 :::8080                 :::*                    LISTEN      3875/apache2
tcp6       0      0 :::22                   :::*                    LISTEN      912/sshd: /usr/sbin
david@david:~$
```

```
david@david:~$ php --version
PHP 8.1.2-1ubuntu2.14 (cli) (built: Aug 18 2023 11:41:11) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.2, Copyright (c) Zend Technologies
    with Zend OPcache v8.1.2-1ubuntu2.14, Copyright (c), by Zend Technologies
david@david:~$ sudo a2dismod php8.1.2
ERROR: Module php8.1.2 does not exist!
david@david:~$ sudo a2dismod php8.1
Module php8.1 disabled.
To activate the new configuration, you need to run:
  systemctl restart apache2
david@david:~$ sudo a2enmod actions
Enabling module actions.
To activate the new configuration, you need to run:
  systemctl restart apache2
david@david:~$ sudo mv /ect/apache2/mods-enabled/fastcgi.conf /ect/apache2/mods-enabled/fastcgi.conf
.default
mv: cannot stat '/ect/apache2/mods-enabled/fastcgi.conf': No such file or directory
david@david:~$ sudo mv /etc/apache2/mods-enabled/fastcgi.conf /etc/apache2/mods-enabled/fastcgi.conf
.default
david@david:~$ _
```

```
        Alias /php-fcgi /usr/lib/cgi-bin/php-fcgi
        FastCgiExternalServer /usr/lib/cgi-bin/php-fcgi -socket /run/php/php8.1-fpm.sock -pass-header
r Authorization
        <Directory /usr/lib/cgi-bin>
               Require all granted
        </Directory>
</IfModule>
~
~
~
~
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~
~
~
~
~
"/etc/apache2/mods-enabled/fastcgi.conf" 11L, 416B escritos
david@david:~$ sudo apachectl -t
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0
.1.1. Set the 'ServerName' directive globally to suppress this message
Syntax OK
david@david:~$ _
```

```
david@david:~$ echo "<?php phpinfo(); ?>" | sudo tee /home/david/htdocs/info.php
<?php phpinfo(); ?>
```

PHP Version 8.1.2-1ubuntu2.14

System	Linux david 5.15.0-84-generic #93-Ubuntu SMP Tue Sep 5 17:16:10 UTC 2023 x86_64
Build Date	Aug 18 2023 11:41:11
Build System	Linux
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.1/fpm
Loaded Configuration File	/etc/php/8.1/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/8.1/fpm/conf.d
Additional .ini files parsed	/etc/php/8.1/fpm/conf.d/10-mysqlnd.ini, /etc/php/8.1/fpm/conf.d/10-opcache.ini, /etc/php/8.1/fpm/conf.d/10-pdo.ini, /etc/php/8.1/fpm/conf.d/15-xml.ini, /etc/php/8.1/fpm/conf.d/20-bz2.ini, /etc/php/8.1/fpm/conf.d/20-calendar.ini, /etc/php/8.1/fpm/conf.d/20-ctype.ini, /etc/php/8.1/fpm/conf.d/20-curl.ini, /etc/php/8.1/fpm/conf.d/20-dom.ini, /etc/php/8.1/fpm/conf.d/20-exif.ini, /etc/php/8.1/fpm/conf.d/20-ffi.ini, /etc/php/8.1/fpm/conf.d/20-fileinfo.ini, /etc/php/8.1/fpm/conf.d/20-ftp.ini, /etc/php/8.1/fpm/conf.d/20-gd.ini, /etc/php/8.1/fpm/conf.d/20-gettext.ini, /etc/php/8.1/fpm/conf.d/20-iconv.ini, /etc/php/8.1/fpm/conf.d/20-mbstring.ini, /etc/php/8.1/fpm/conf.d/20-mysqli.ini, /etc/php/8.1/fpm/conf.d/20-pdo_mysql.ini, /etc/php/8.1/fpm/conf.d/20-phar.ini, /etc/php/8.1/fpm/conf.d/20-posix.ini, /etc/php/8.1/fpm/conf.d/20-readline.ini, /etc/php/8.1/fpm/conf.d/20-shmop.ini, /etc/php/8.1/fpm/conf.d/20-simplexml.ini, /etc/php/8.1/fpm/conf.d/20-sockets.ini, /etc/php/8.1/fpm/conf.d/20-sysvmsg.ini, /etc/php/8.1/fpm/conf.d/20-sysvsem.ini, /etc/php/8.1/fpm/conf.d/20-sysvshm.ini, /etc/php/8.1/fpm/conf.d/20-tokenizer.ini, /etc/php/8.1/fpm/conf.d/20-xmlreader.ini, /etc/php/8.1/fpm/conf.d/20-xmlwriter.ini, /etc/php/8.1/fpm/conf.d/20-xsl.ini, /etc/php/8.1/fpm/conf.d/20-zip.ini
PHP API	20210902
PHP Extension	20210902
Zend Extension	420210902
Zend Extension Build	API420210902,NTS
PHP Extension Build	API20210902,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled

```
°david@david:~$ sudo apt-get install nginx
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
nginx ya está en su versión más reciente (1.18.0-6ubuntu14.4).
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 2 no actualizados.
david@david:~$ sudo rm /ect/nginx/sites-enabled/default
rm: cannot remove '/ect/nginx/sites-enabled/default': No such file or directory
david@david:~$ sudo rm /etc/nginx/sites-enabled/default
david@david:~$ sudo mkdir -v /usr/share/nginx/example.com /usr/share/nginx/sample.org
mkdir: created directory '/usr/share/nginx/example.com'
mkdir: created directory '/usr/share/nginx/sample.org'
david@david:~$ echo "<h1 style='color: green;'>Example.com</h1>" | sudo tee /usr/share/nginx/example
.com/index.html
<h1 style='color: green;'>Example.com</h1>
david@david:~$ echo "<h1 style='color: red;'>Sample.org</h1>" | sudo tee /usr/share/nginx/sample.org
/index.html
<h1 style='color: red;'>Sample.org</h1>
david@david:~$ echo "<?php phpinfo(); ?>" | sudo tee /usr/share/nginx/example.com/info.php
<?php phpinfo(); ?>
david@david:~$ echo "<?php phpinfo(); ?>" | sudo tee /usr/share/nginx/sample.org/info.php
<?php phpinfo(); ?>
david@david:~$
```

```
  GNU nano 6.2                        /etc/nginx/sites-available/example.com
server {
        listen 80 default_server;

        root /usr/share/nginx/example.com;
        index index.php index.html index.html;

        server_name example.com www.example.com;
        location / {
                try_files $uri $uri/ /index.php;
        }

        location ~ \.php$ {
                fastcgi_pass unix:/run/php/php8.1-fpm.sock;
                include snippets/fastcgi-php.conf
        }
}
```

```
  GNU nano 6.2                        /etc/nginx/sites-available/sample.org
server {
        root /usr/share/nginx/sample.org;
        index index.php index.html index.htm;

        server_name sample.org www.sample.org;
        location / {
                try_files $uri $uri/ /index.php;
        }

        location ~ \.php$ {
                fastcgi_pass unix:/run/php/php8.1-fpm.sock;
                include snippets/fastcgi-php.conf;
        }
}
```

```
david@david:~$ sudo ln -s /etc/nginx/sites-available/example.com
david@david:~$ sudo ln -s /etc/nginx/sites-available/sample.org
david@david:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
david@david:~$ sudo systemctl reload nginx
david@david:~$
```

```
root@david:/# cd /tmp/ && wget https://github.com/gnif/mod_rpaf/archive/stable.zip
--2023-10-20 10:18:47--  https://github.com/gnif/mod_rpaf/archive/stable.zip
Resolving github.com (github.com)... 140.82.121.4
Connecting to github.com (github.com)|140.82.121.4|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://codeload.github.com/gnif/mod_rpaf/zip/refs/heads/stable [following]
--2023-10-20 10:18:47--  https://codeload.github.com/gnif/mod_rpaf/zip/refs/heads/stable
Resolving codeload.github.com (codeload.github.com)... 140.82.121.9
Connecting to codeload.github.com (codeload.github.com)|140.82.121.9|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7822 (7,6K) [application/zip]
Saving to: 'stable.zip.1'

stable.zip.1          100%[===================================>]   7,64K  --.-KB/s    in 0s

2023-10-20 10:18:48 (50,1 MB/s) - 'stable.zip.1' saved [7822/7822]

root@david:/tmp#
```

```
  GNU nano 6.2                        /etc/apache2/mods-available/rpaf.conf
<IfModule mod_rpaf.c>
        RPAF_Enable On
        RPAD_Header X-Real-Ip
        RPAF_ProxyIPs 192.168.142.132
        RPAF_SetHostName On
        RPAF_SetHTTPS On
        RPAF_SetPort On
</IfModule>
```

```
  GNU nano 6.2                        /etc/apache2/mods-available/rpaf.load
LoadModule rpaf_module /usr/lib/apache2/modules/mod_rpaf.load
```

```
root@david:~# cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/ejemplo.es.conf
root@david:~#
```

```
  GNU nano 6.2                        /etc/apache2/sites-available/ejemplo.es.conf *
<VirtualHost *:8080>
        # The ServerName directive sets the request scheme, hostname and port that
        # the server uses to identify itself. This is used when creating
        # redirection URLs. In the context of virtual hosts, the ServerName
        # specifies what hostname must appear in the request's Host: header to
        # match this virtual host. For the default virtual host (this file) this
        # value is not decisive as it is used as a last resort host regardless.
        # However, you must set it for any further virtual host explicitly.
        #ServerName www.example.es

        ServerAdmin webmaster@localhost
        DocumentRoot /home/david/htdocs

        # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn
```

```
The Apache error log may have more information.
root@david:~# apachectl -t
AH00558: apache2: Could not reliably determine the server's fully qualified doma
in name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress th
is message
Syntax OK
root@david:~# sudo nano /etc/apache2/apache2.conf
root@david:~# sudo apachectl configtest
Syntax OK
root@david:~# sudo systemctl restart apache2.service
root@david:~# apachectl -t
Syntax OK
root@david:~# systemctl restart apache2
root@david:~# ss -tlpn sport :8080
State    Recv-Q   Send-Q      Local Address:Port      Peer Address:Port  Process
LISTEN   0        511                   *:8080                  *:*      users:((
"apache2",pid=2661,fd=4),("apache2",pid=2660,fd=4),("apache2",pid=2659,fd=4),("a
pache2",pid=2658,fd=4),("apache2",pid=2657,fd=4),("apache2",pid=2656,fd=4),("apa
che2",pid=2655,fd=4))
root@david:~#
```

```
root@david:~# sudo mkdir -p /var/lib/nginx/cache && chown www-data /var/lib/nginx/cache && chmod 700
 /var/lib/nginx/cache
```

```
  GNU nano 6.2                  /etc/nginx/sites-available/ejemplo.es
              gzip on;
              gzip_min_length 1000;
              gzip_comp_level 5;
              gzip_proxied any;
              gzip_vary on;
              gzyp_types
                      text/css
                      text/javascript
                      text/xml
                      text/plain
                      text/x-component
                      application/javascript
                      application/json
                      application/xml
                      application/rss+xml
                      font/truetype
                      font/opentype
                      application/vnd.ms-fontobject
                      image/svg+xml;

              add_header X-Proxy-Cache $upstream_cache_status;
              add_header Strict-Transport-Security 'max-age=31536000; includeSubDomains; preload';
              add_header X-frame-Options SAMEORIGIN;
              add_header X-Content-Type-Options nosniff;
              add_header X-XSS-Protection "1; mode=block";
              add_header X-Cache-Status $upstream_cache_status;
              add_header X-Powered_By 'Clouding';
      }
      location ~ /\.ht {
              deny all;
      }
}
```

```
root@david:~# ln -s /etc/nginx/sites-available/ejemplo.es /etc/nginx/sites-enabled/ejemplo.es
```