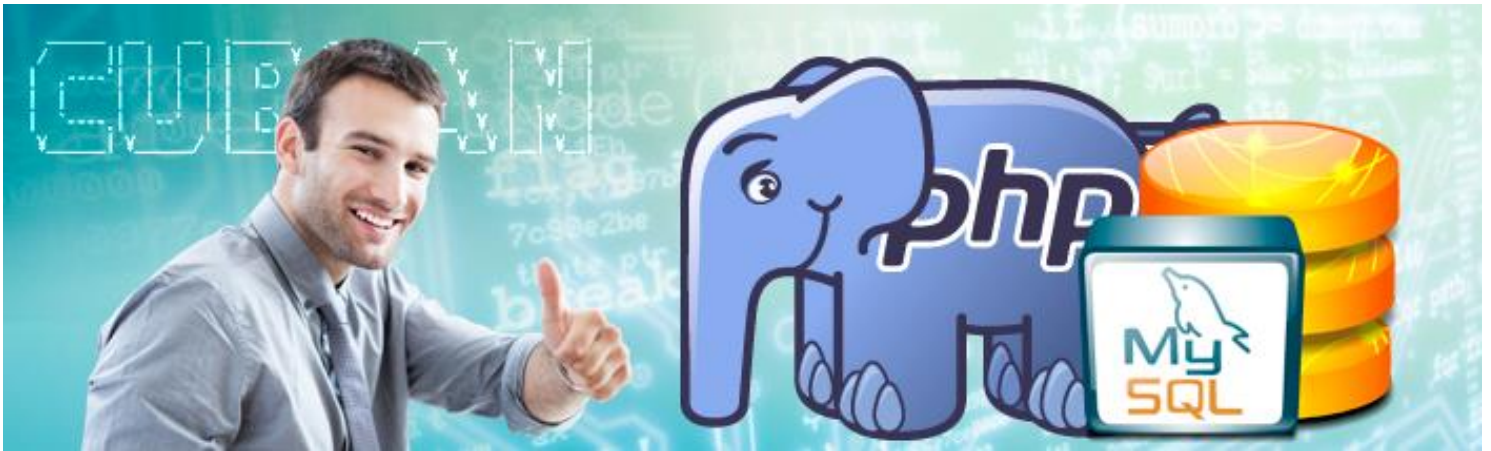


Aprenda a instalar Cubian, Nginx, MySQL, PHP5 na Cubieboard



Cubian é um Sistema Operacional Linux produzido para Cubieboard baseado em Debian wheezy.

```
COM9 - PuTTY
Debian GNU/Linux 7.0 Cubian ttyS0
Cubian login: cubie
Password:
Linux Cubian 3.4.29 #8 PREEMPT Sun May 19 01:55:19 CST 2013 armv7l

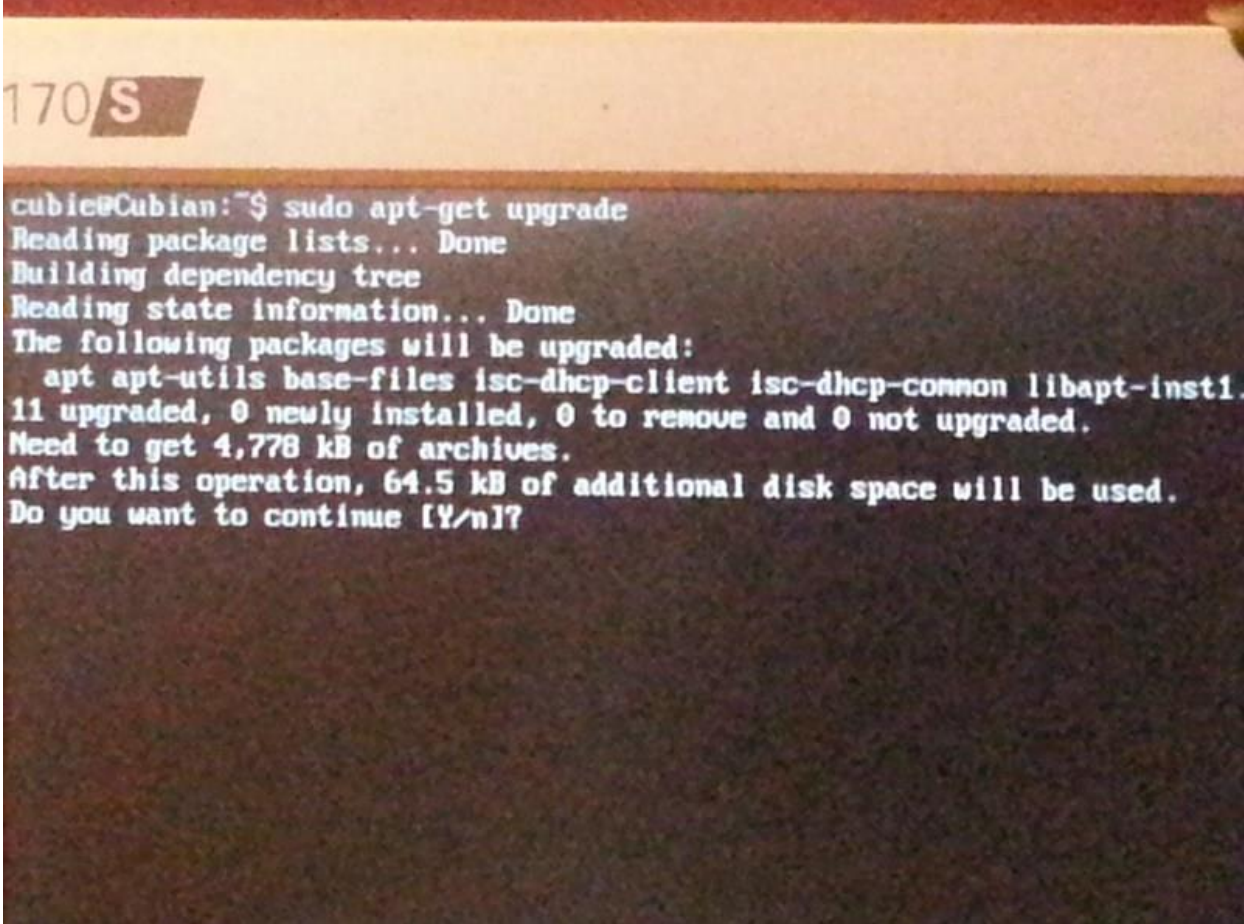
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
cubie@Cubian:~$
```

## Instale o LXDE

Depois de reiniciar, e com uma conexão de internet ativa, faça o login no Cubian (user: cubie, pwd: cubie) e execute:

```
$ sudo apt-get update  
$ sudo apt-get upgrade
```



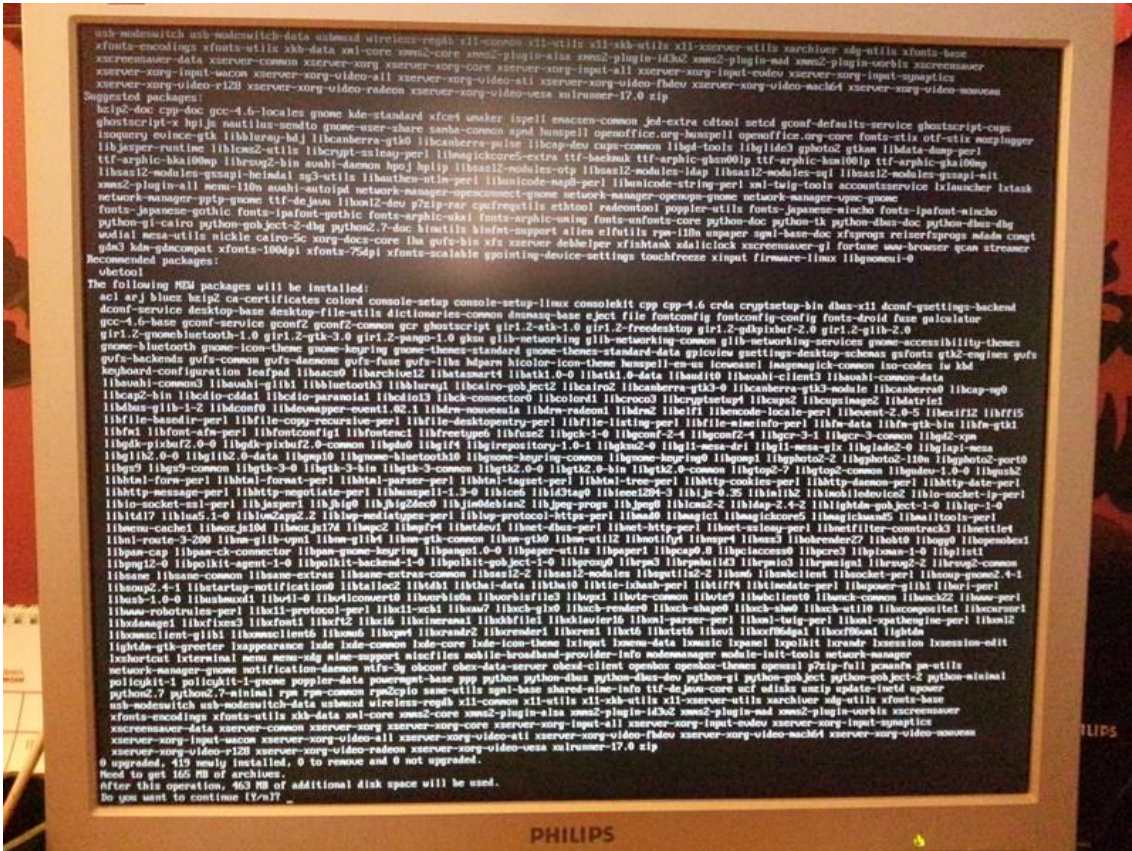
```
170/S  
cubie@Cubian:~$ sudo apt-get upgrade  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages will be upgraded:  
  apt apt-utils base-files isc-dhcp-client isc-dhcp-common libapt-inst1.  
11 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
Need to get 4,778 kB of archives.  
After this operation, 64.5 kB of additional disk space will be used.  
Do you want to continue [Y/n]?
```

Depois, instale o LXDE com:

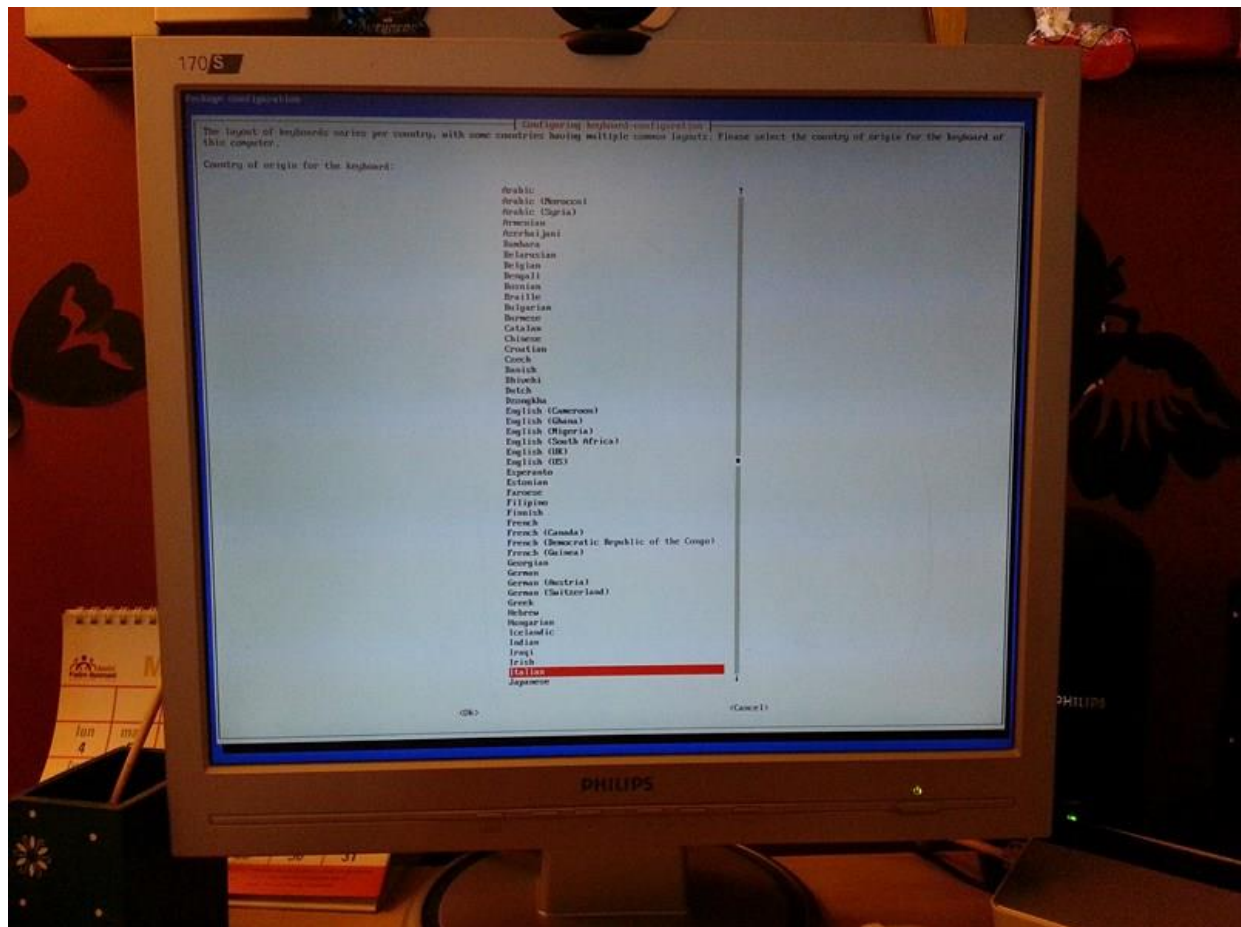
```
$ sudo apt-get install lxde
```

(Observação: Isto requer um download de 165 MB de informações)





Durante a instalação do **LXDE** é possível escolher o padrão do teclado e seu idioma



Após a instalação, reinicie a máquina:

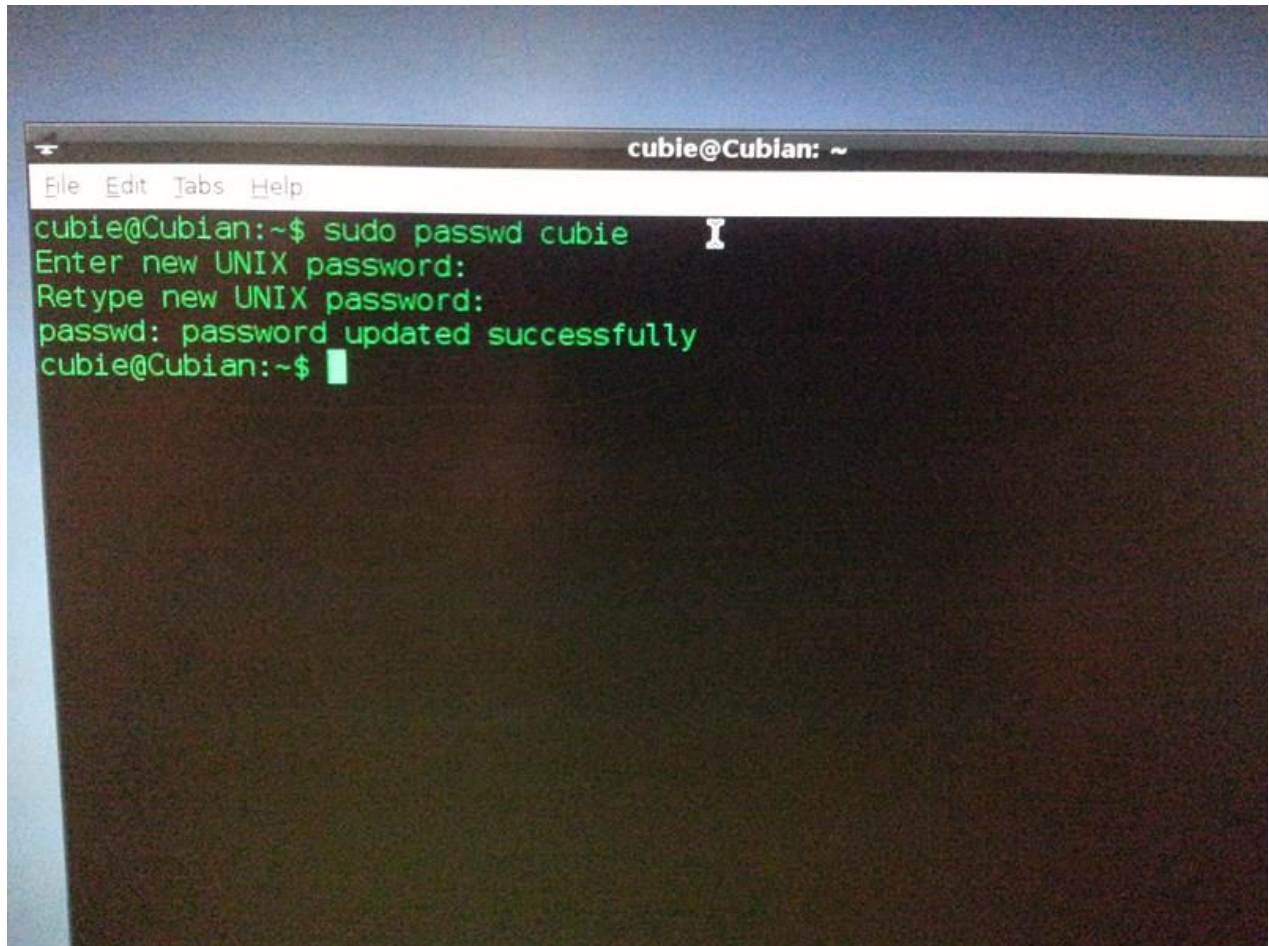
```
$ sudo reboot
```

Instale o MySQL

Depois de fazer o login, altere o password do usuário da Cubie:

```
$ sudo passwd cubie
```

Insira o novo password



```
cubie@Cubian: ~  
File Edit Tabs Help  
cubie@Cubian:~$ sudo passwd cubie  
Enter new UNIX password:  
Retype new UNIX password:  
passwd: password updated successfully  
cubie@Cubian:~$
```

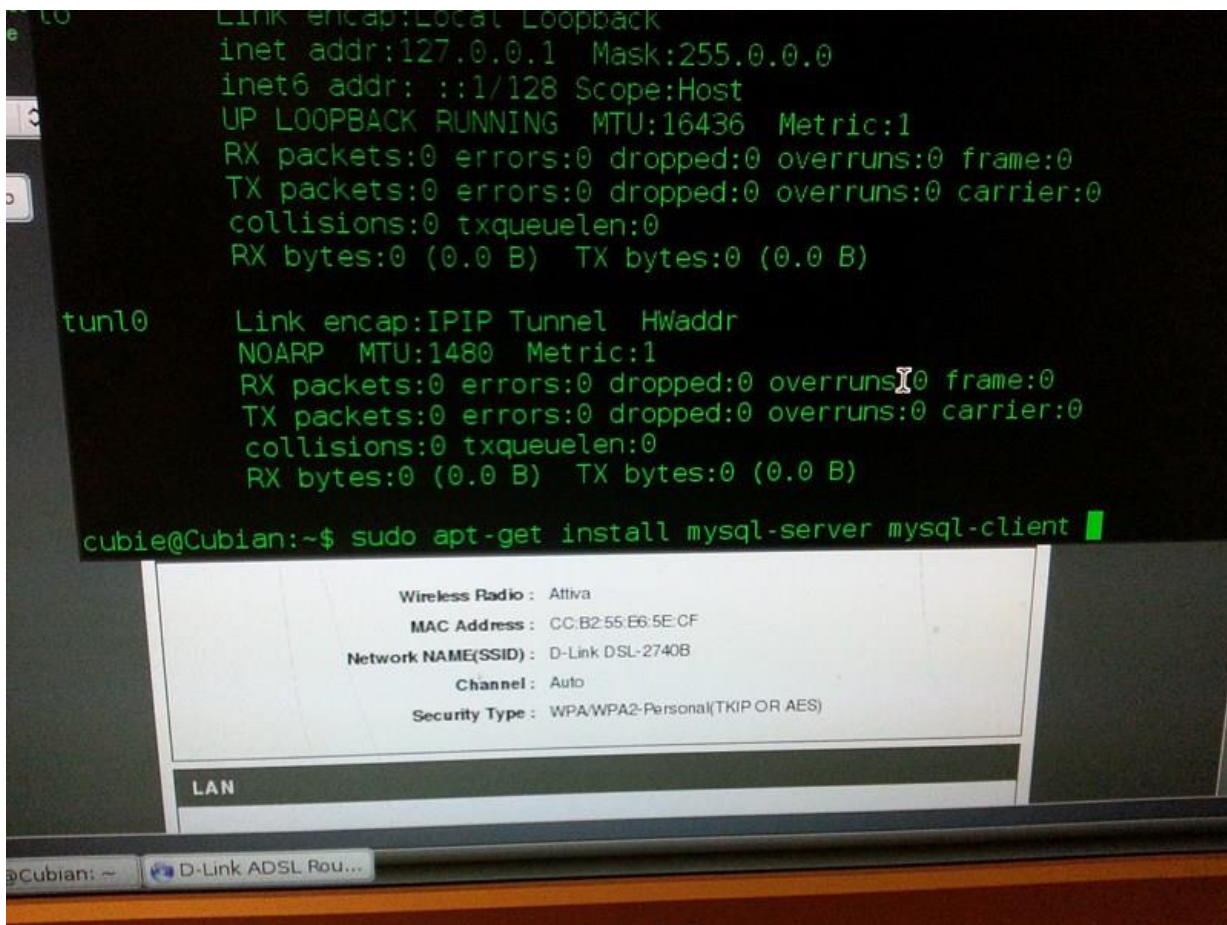
**Instale o Midnight Commander:**

```
$ sudo apt-get install mc
```

**E finalmente,**

```
$ sudo apt-get install mysql-server mysql-client
```

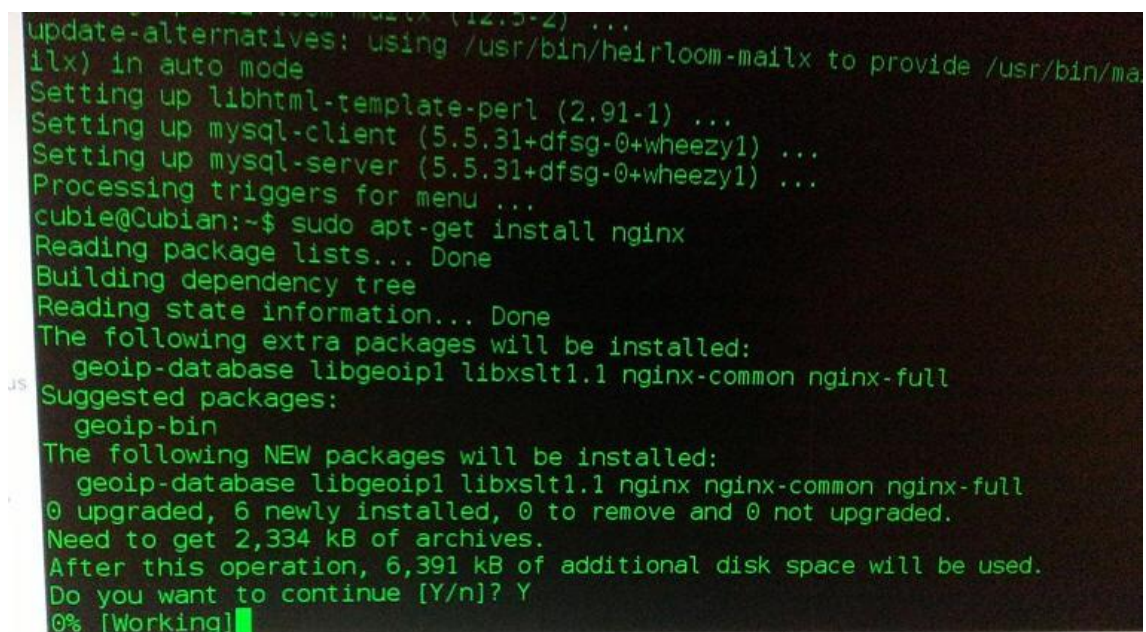




Instale o Nginx web server:

No Debian este web server tem um package, portanto:

```
$ sudo apt-get install nginx
```

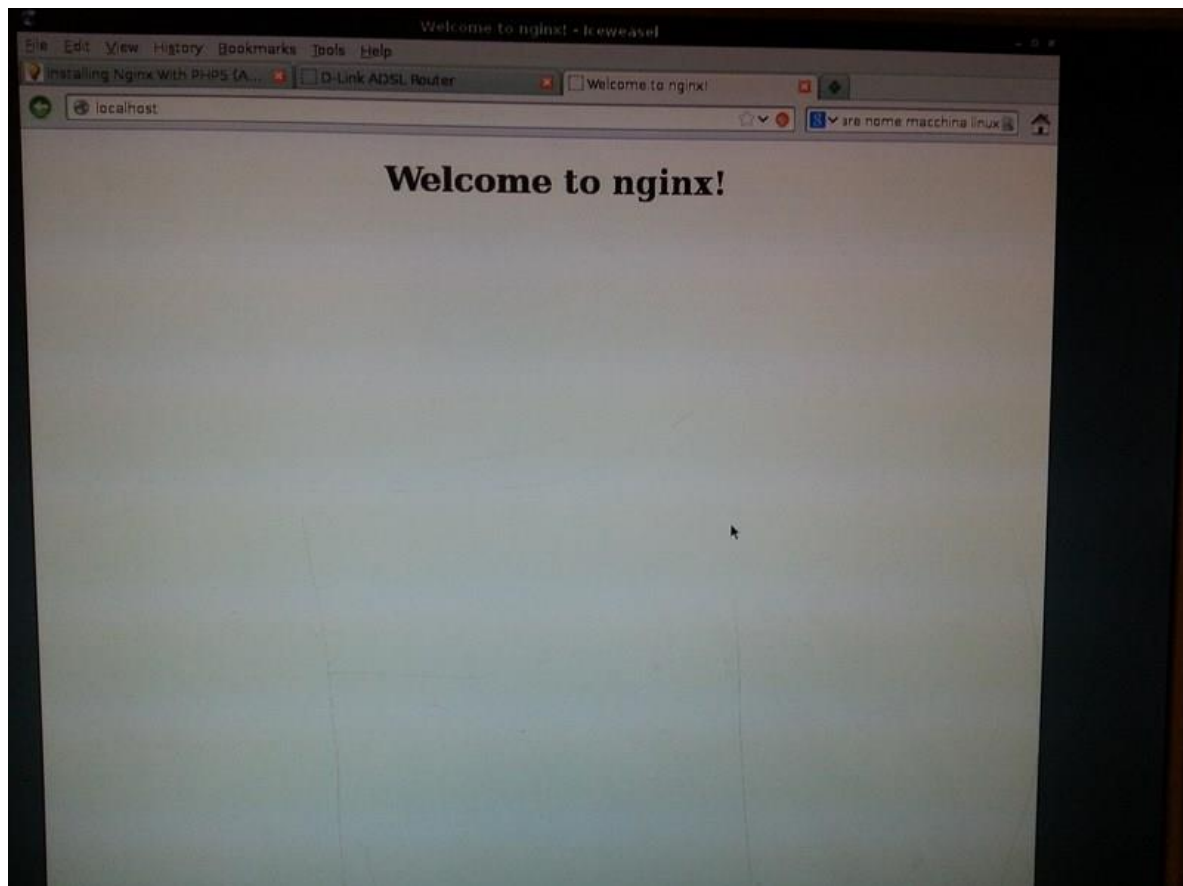


Inicie o servidor:

```
$ sudo /etc/init.d/nginx start
```

```
Unpacking nginx (from .../nginx_1.2.1-2.2_all.d
Processing triggers for man-db ...
Setting up geoip-database (20130213-1) ...
Setting up libxslt1.1:armhf (1.1.26-14.1) ...
Setting up libgeoip1 (1.4.8+dfsg-3) ...
Setting up nginx-common (1.2.1-2.2) ...
Setting up nginx-full (1.2.1-2.2) ...
Setting up nginx (1.2.1-2.2) ...
cubie@Cubian:~$ sudo /etc/init.d/nginx start
Starting nginx: nginx.
cubie@Cubian:~$ █
```

Se tudo estiver ok, digite o endereço IP do seu webserver (ou localhost ) no seu navegador. Você deve ver esta tela:





O documento root padrão no Nginx está localizado no `/usr/share/nginx/www`

## Install PHP5-fpm

PHP5 trabalha em nginx através de PHP-FPM (PHP-FPM (FastCGI Process Manager), uma implementação alternativa FastCGI PHP:

```
$ sudo apt-get install php5-fpm
```

```
cubie@Cubian:~$ sudo service nginx start
Starting nginx: nginx.
cubie@Cubian:~$ sudo apt-get install php5-fpm
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libonig2 libqdbm14 php5-common
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libonig2 libqdbm14 php5-common php5-fpm
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 3,141 kB of archives.
After this operation, 7,609 kB of additional disk space will be used.
Do you want to continue [Y/n]? █
```

**Nota:** PHP-FPM é um processo daemon (com o script de inicialização `/etc/init.d/php5-fpm`) que executa um FastCGI server no socket `/var/run/php5-fpm.sock`

## Configure o PHP5

Precisamos fazer uma pequena mudança na configuração do php. Então no arquivo `php.ini`:

```
$ sudo nano /etc/php5/fpm/php.ini
```



```
Get:4 http://http.debian.net/debian/ wheezy/main libonig2 a
B]
Fetched 3,141 kB in 9s (329 kB/s)
Selecting previously unselected package php5-common.
(Reading database ... 50338 files and directories currently
Unpacking php5-common (from .../php5-common_5.4.4-14+deb7u2
Selecting previously unselected package libonig2.
Unpacking libonig2 (from .../libonig2_5.9.1-1_armhf.deb) ...
Selecting previously unselected package libqdbm14.
Unpacking libqdbm14 (from .../libqdbm14_1.8.78-2_armhf.deb)
Selecting previously unselected package php5-fpm.
Unpacking php5-fpm (from .../php5-fpm_5.4.4-14+deb7u2_armhf.
Processing triggers for man-db ...
Setting up php5-common (5.4.4-14+deb7u2) ...

Creating config file /etc/php5/mods-available/pdo.ini with ne
Setting up libonig2 (5.9.1-1) ...
Setting up libqdbm14 (1.8.78-2) ...
Setting up php5-fpm (5.4.4-14+deb7u2) ...

Creating config file /etc/php5/fpm/php.ini with new version
cubie@Cubian:~$ sudo nano /etc/php5/fpm/php.ini
```

E encontre a linha:

```
;cgi.fix_pathinfo=1
```

Remova o comentário excluindo o ";" e altere de 1 para 0

```
; http://php.net/cgi.redirect-status-env
;cgi.redirect_status_env = ;

; cgi.fix_pathinfo provides *real* PATH_INFO
; previous behaviour was to set PATH_TRANSLATED
; what PATH_INFO is. For more information c
; this to 1 will cause PHP CGI to fix its pa
; of zero causes PHP to behave as before. D
; to use SCRIPT_FILENAME rather than PATH_TR
; http://php.net/cgi.fix-pathinfo
;cgi.fix_pathinfo=1

; FastCGI under IIS (on WINNT based OS) suppo

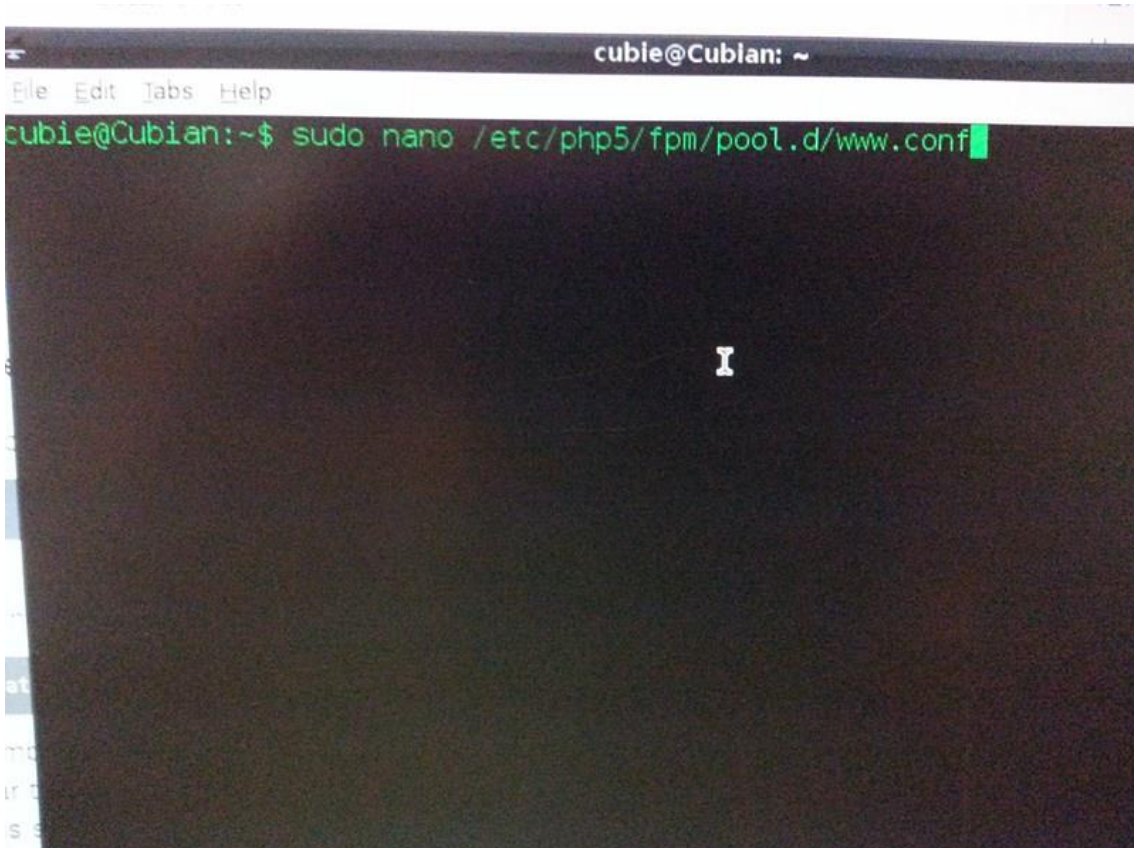
^G Get Help      ^O WriteOut     ^R Read File    ^V Prev
^X Exit          ^J Justify     ^W Where Is    ^N Next
```



```
; cause security issues, KNOW WHAT YOU  
; http://php.net/cgi.redirect-status-e  
;cgi.redirect_status_env = ;  
  
; cgi.fix_pathinfo provides *real* PATH  
; previous behaviour was to set PATH_TR  
; what PATH_INFO is. For more informat  
; this to 1 will cause PHP CGI to fix i  
; of zero causes PHP to behave as befor  
; to use SCRIPT_FILENAME rather than PA  
; http://php.net/cgi.fix-pathinfo  
cgi.fix_pathinfo=0  
  
; FastCGI under IIS (on WINNT based OS)  
  
^G Get Help      ^O WriteOut     ^R Read File   ^L  
^X Exit         ^J Justify     ^W Where Is   ^_
```

Salve e saia. É necessário outra pequena mudança na configuração php5-fpm. Abra o `www.conf`:

```
$ sudo nano /etc/php5/fpm/pool.d/www.conf
```



```
cuble@Cubian: ~  
File Edit Tabs Help  
cuble@Cubian:~$ sudo nano /etc/php5/fpm/pool.d/www.conf
```



E verifique que o diretório está no endereço /var/run/php5-fpm.sock.

```
, the address on which to accept FastCGI requests
; Valid syntaxes are:
;   'ip.add.re.ss:port'   - to listen on a TCP/IP address and
;                           a specific port;
;   'port'                - to listen on a TCP/IP address and
;                           a specific port;
;   '/path/to/unix/socket' - to listen on a unix socket.
; Note: This value is mandatory.
listen = /var/run/php5-fpm.sock

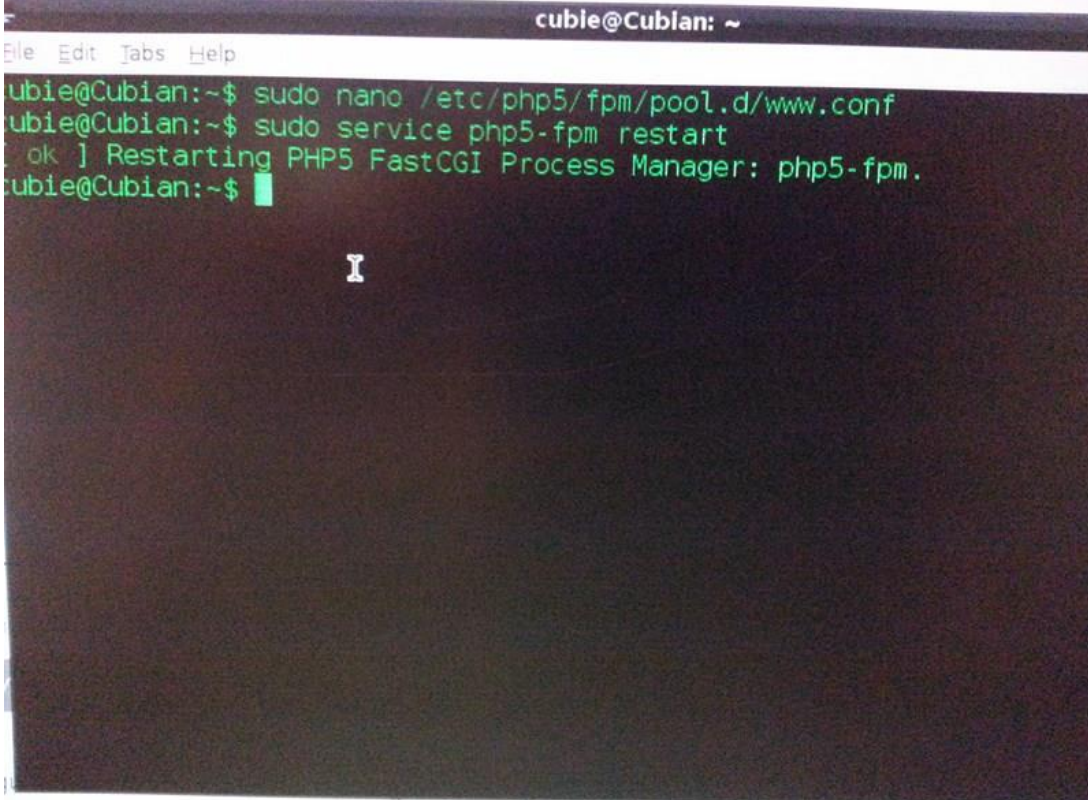
; Set listen(2) backlog.
; Default Value: 128 (-1 on FreeBSD and OpenBSD)
;listen.backlog = 128

; Set permissions for unix socket, if one is used.

^G Get Help    ^O WriteOut   ^R Read File  ^Y Prev Pa
^X Exit        ^J Justify    ^W Where Is   ^V Next Pa
```

**Salve, saia e reinicie o php-fpm:**

```
$ sudo service php5-fpm restart
```

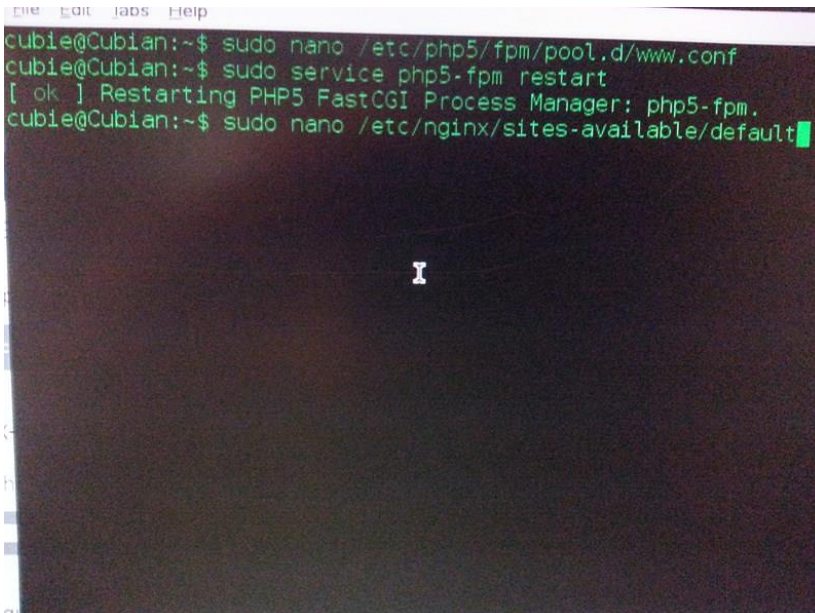


```
cuble@Cublan: ~  
File Edit Tabs Help  
cuble@Cubian:~$ sudo nano /etc/php5/fpm/pool.d/www.conf  
cuble@Cubian:~$ sudo service php5-fpm restart  
[ ok ] Restarting PHP5 FastCGI Process Manager: php5-fpm.  
cuble@Cubian:~$
```

## Configure Nginx

**Abra o arquivo do servidor padrão**

```
$ sudo nano /etc/nginx/sites-available/default
```



```
cuble@Cubian:~$ sudo nano /etc/php5/fpm/pool.d/www.conf  
cuble@Cubian:~$ sudo service php5-fpm restart  
[ ok ] Restarting PHP5 FastCGI Process Manager: php5-fpm.  
cuble@Cubian:~$ sudo nano /etc/nginx/sites-available/default
```



A configuração deve incluir as alterações abaixo:

```
File Edit Tabs Help
GNU nano 2.2.6 File: /etc/nginx/sites-available/default Modified
# http://wiki.nginx.org/QuickStart
# http://wiki.nginx.org/Configuration
#
# Generally, you will want to move this file somewhere, and start with a clean
# file but keep this around for reference. Or just disable in sites-enabled.
#
# Please see /usr/share/doc/nginx-doc/examples/ for more detailed examples.
##
server {
    listen 80; ## listen for ipv4; this line is default and implied
    #listen [::]:80 default_server ipv6only=on; ## listen for ipv6

    root /usr/share/nginx/www;
    index index.php index.html index.htm;

    # Make site accessible from http://localhost/
    server_name localhost;

    # pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000
    location ~ \.php$ {
        fastcgi_pass 127.0.0.1:9000;
        # With php5-fpm:
        fastcgi_pass unix:/var/run/php5-fpm.sock;
    }
}
```

```
cuble@Cublan: ~
Edit  Tabs  Help
nano 2.2.6  File: /etc/nginx/sites-available/default  No
#
location ~ /\.php$ {
    fastcgi_split_path_info ^(.+\.(php|php5))(/.+)$;
    # NOTE: You should have "cgi.fix_pathinfo = 0;" in php.ini

    # With php5-cgi alone:
    #fastcgi_pass 127.0.0.1:9000;
    # With php5-fpm:
    fastcgi_pass unix:/var/run/php5-fpm.sock;
    fastcgi_index index.php;
    include fastcgi_params;
}

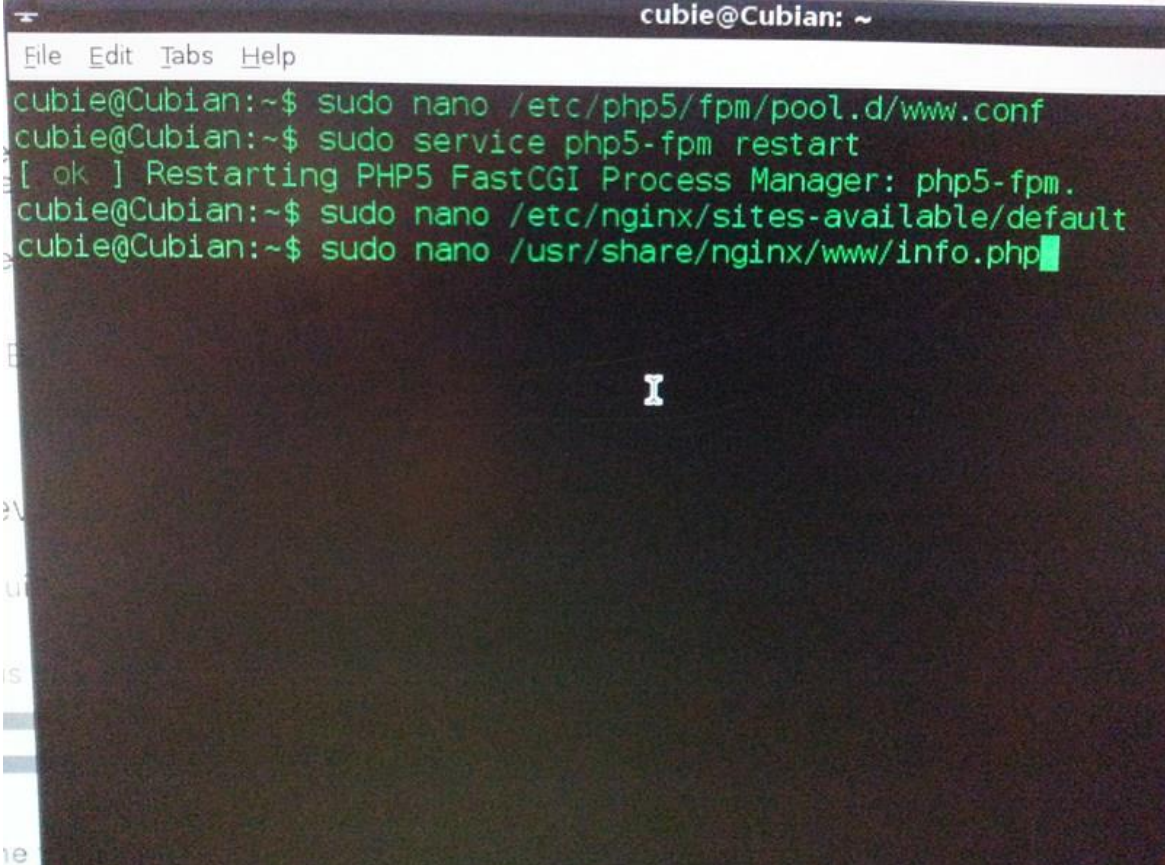
# deny access to .htaccess files, if Apache's document root
# concurs with nginx's one
#
#location ~ /\.ht {
#    deny all;
#}

Get Help  WriteOut  Read File  Prev Page  Cut Text  Cur Pos
Exit      Justify    Where Is   Next Page  UnCut Text  To Spell
```



Salve e saia. Agora, crie uma página de teste php:

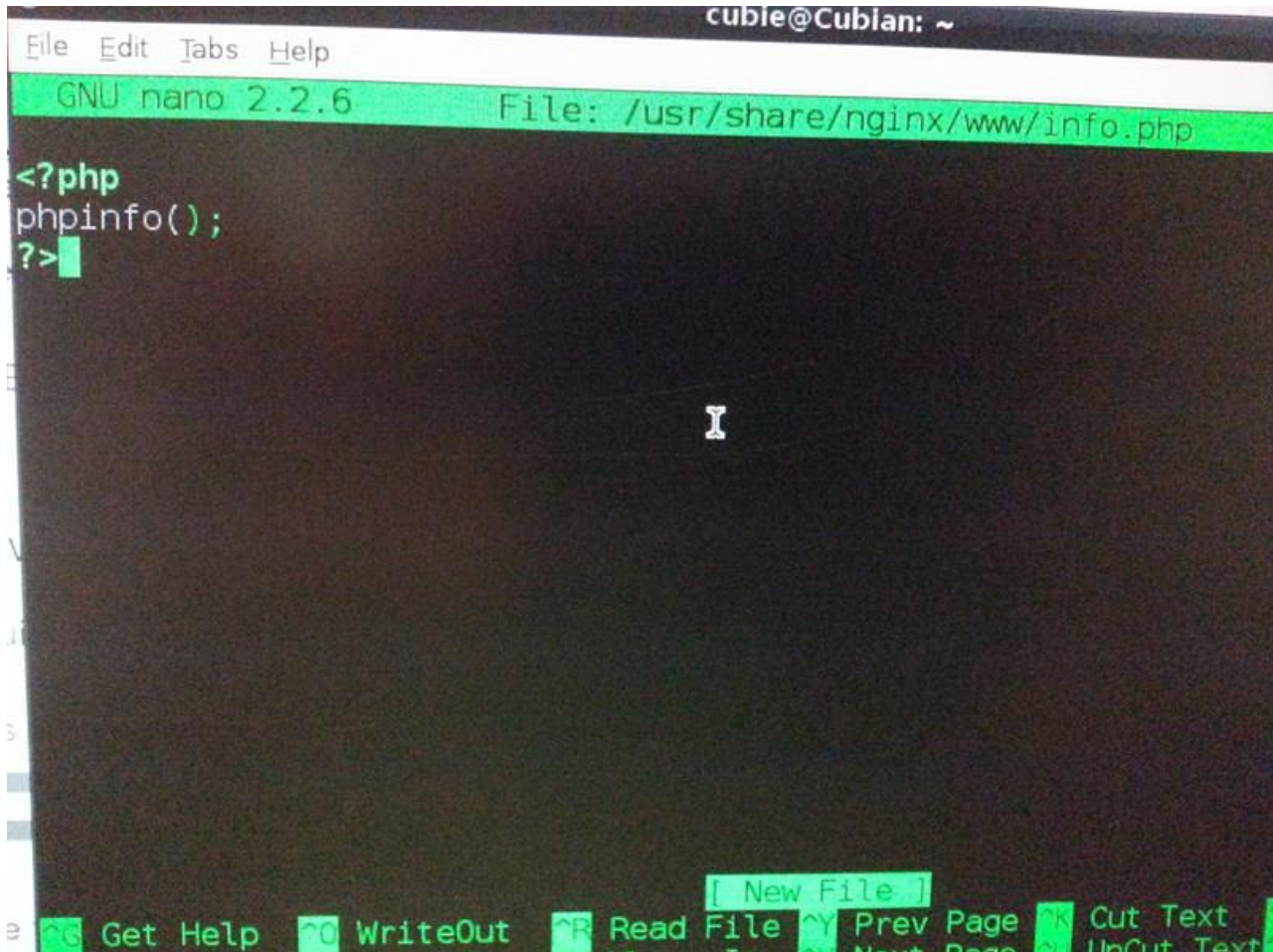
```
$ sudo nano /usr/share/nginx/www/info.php
```



```
cubie@Cubian: ~  
File Edit Tabs Help  
cubie@Cubian:~$ sudo nano /etc/php5/fpm/pool.d/www.conf  
cubie@Cubian:~$ sudo service php5-fpm restart  
[ ok ] Restarting PHP5 FastCGI Process Manager: php5-fpm.  
cubie@Cubian:~$ sudo nano /etc/nginx/sites-available/default  
cubie@Cubian:~$ sudo nano /usr/share/nginx/www/info.php
```

Insira a linha abaixo:

```
<?php  
    phpinfo();  
?>
```



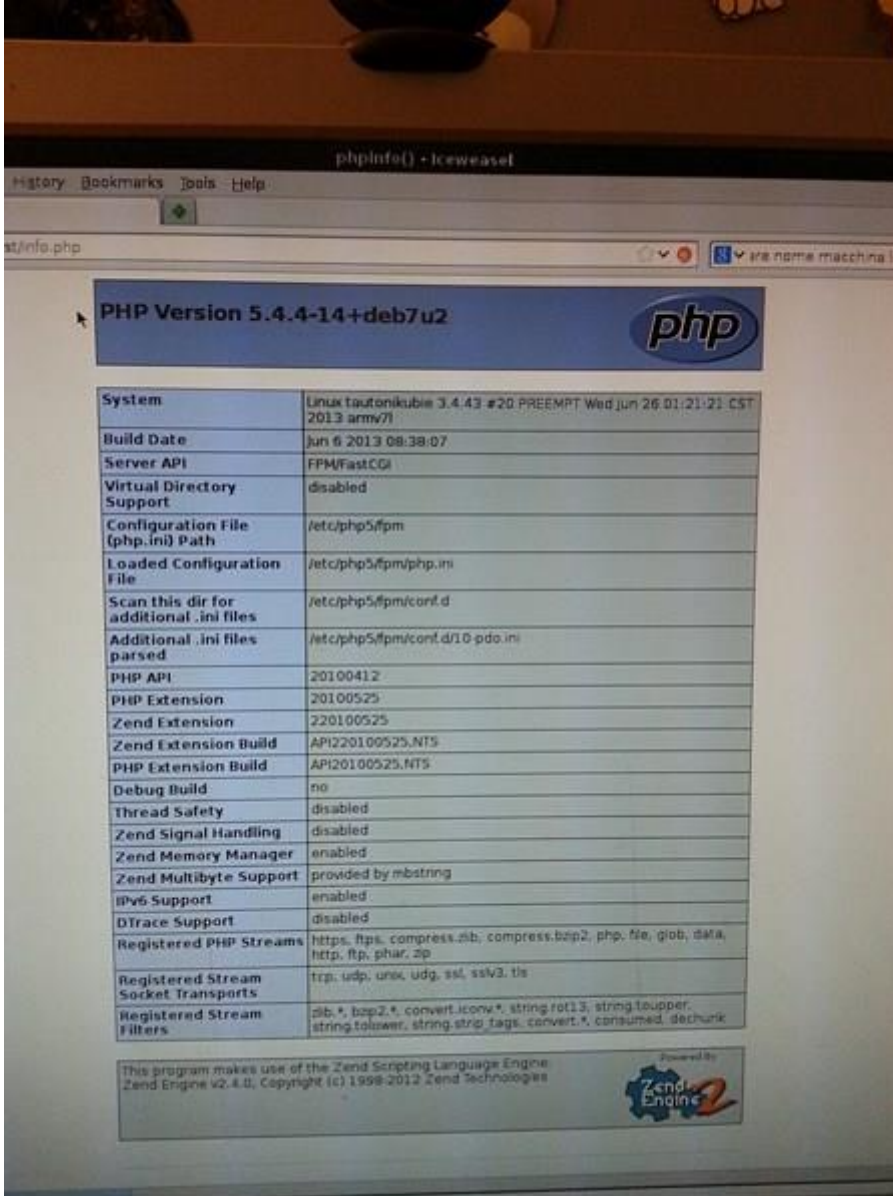
The screenshot shows a terminal window with the nano text editor open. The terminal title is 'cuble@Cubian: ~'. The nano header shows 'GNU nano 2.2.6' and the file path 'File: /usr/share/nginx/www/info.php'. The editor content is:

```
<?php  
phpinfo();  
?>
```

The cursor is positioned at the end of the third line. The nano status bar at the bottom shows various keyboard shortcuts: 'Get Help', 'WriteOut', 'Read File', 'Prev Page', 'Next Page', 'Cut Text', and 'UnCut Text'. A '[ New File ]' prompt is also visible.




Depois salve, saia e reinicie o Nginx. A configuração do nginx e php-fpm configuration está no endereço <http://localhost/info.php>



PHP Version 5.4.4-14+deb7u2

|   |   |
|---|---|
| System                                  | Linux tautonikubie 3.4.43 #20 PREEMPT Wed Jun 26 01:21:21 CST 2013 armv7l   |
| Build Date                              | Jun 6 2013 08:38:07   |
| Server API                              | FPM/FastCGI   |
| Virtual Directory Support               | disabled  |
| Configuration File (php.ini) Path       | /etc/php5/fpm   |
| Loaded Configuration File               | /etc/php5/fpm/php.ini   |
| Scan this dir for additional .ini files | /etc/php5/fpm/conf.d  |
| Additional .ini files parsed            | /etc/php5/fpm/conf.d/10-pdo.ini   |
| PHP API                                 | 20100412  |
| PHP Extension                           | 20100525  |
| Zend Extension                          | 220100525   |
| Zend Extension Build                    | API220100525.NTS  |
| PHP Extension Build                     | API20100525.NTS   |
| Debug Build                             | no  |
| Thread Safety                           | disabled  |
| Zend Signal Handling                    | disabled  |
| Zend Memory Manager                     | enabled   |
| Zend Multibyte Support                  | provided by mbstring  |
| IPv6 Support                            | enabled   |
| DTrace Support                          | disabled  |
| Registered PHP Streams                  | https, ftps, compress.zlib, compress.bzip2, php, file, glob, data, http, ftp, phar, zip   |
| Registered Stream Socket Transports     | tcp, udp, unix, udg, ssl, sslv3, tls  |
| Registered Stream Filters               | zlib.*, bzip2.*, convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk |

This program makes use of the Zend Scripting Language Engine: Zend Engine v2.4.0, Copyright (c) 1998-2012 Zend Technologies



Autor Original : Tommaso Mauro Tautonico & Copied from <http://tautonik.homepc.it/tutorial.html>