



Manual Prepared by GalaxyVisions Customer Care Team

Basic Apache Location

/usr/local/apache

- bin/
- conf/
- sites/
- domlogs/
- logs/
- modules/

Your httpd.conf file and Names vs. IP Account Examples

AllowOverride

All

None

Enables all overrides & Disables all overrides

Authconfig user/group authorization

FileInfo Control document types

Indexes Control directory indexing

Limit Control network/host access

Options Use special directives

The End Run: .htaccess

mod_rewrite

<http://www.example.com/article/32>

<http://www.example.com/index.php?s=article&id=32>

.htaccess – The Dangers Directory Traversal php_*



The Cookie Cutter Approach /usr/local/cpanel/etc/httpdtemplates

- default
- ssldefault

Default

```
<VirtualHost %ip%>
```

```
ServerAlias %serveralias%
```

```
ServerAdmin %serveradmin%
```

```
DocumentRoot %docroot%
```

```
ServerName %servername%
```

```
!usecannameoff=1!
```

```
UseCanonicalName off
```

```
!usecannameoff!
```

```
!dirprotect=1!
```

```
... @ADDONS@
```

```
</VirtualHost>
```

Just Addon Tomcat, Resin, Mono, more The Many Versions of Apache Basic differences 2:Worker and Prefork Why does it matter?

“We do not recommend using a threaded MPM in production with Apache2. Use the prefork MPM instead, or use Apache1.”

Source: <http://www.php.net/manual/en/install.unix.apache2.php>

PHP

Face Off! 4 vs 5.1

MySQL

PHP Security

Catching a Greased Pig; or How to Secure Your PHP Installation Modules and Multi-User Pardon me while I read your file One Solution: CGI

CGI Strategy

she-bang, not a Ricky Martin song `#!/usr/local/bin/php`

suExec

- PHPsuExec
- suPHP

Basic Apache

- Safe Mode *
- `open_basedir`
- `display_errors`
- `disable_functions` *
- `register_globals`

PHP Specifics: Caveats

- 6.0: Goodbye Safe Mode
- `.htaccess`
- Web application breakage

**Performance Why do you need Zend Optimizer? mod_security What is it?
How do I enable it?**

Enabling mod_security mod_security Configuration

/usr/local/apache/conf

- modsec.conf
- modsec.user.conf

modsec.conf Example

```
<IfModule mod_security.c>
SecFilterEngine On
SecFilterCheckURLEncoding On
SecFilterForceByteRange 0 255
SecAuditEngine RelevantOnly
SecAuditLog logs/audit_log
SecFilterDebugLog logs/modsec_debug_log
SecFilterDebugLevel 0
SecFilterDefaultAction "deny,log,status:406"
SecFilterSelective REMOTE_ADDR "^127.0.0.1$" nolog,allow
Include "/usr/local/apache/conf/modsec.user.conf"
</IfModule>
```

mod_security – Rules Occur on every incoming Request

Get: first line only

Post: body included

Rule Syntax

SecFilter KEYWORD [ACTIONS] KEYWORD: What to Match
ACTIONS: What to do Rules: What Do We Match?

Normalized data

GET /bin/./sh -> /bin/sh

Action: Now What Do I Do?

1. Primary – *deny, pass, redirect*
2. Secondary
3. Flow – *chain, skip* Action Parameters

Colon (:) separated White space single quoted (')

SecFilterDefaultAction “deny,log,status:'Hello World!’”

mod_security Examples

Parameter Checking SecFilterSelective ARG_parameter “!^[0-9]{1,5}\$”

mod_security Examples

File Upload

Deny all, selective

SecFilterSelective HTTP_CONTENT_TYPE multipart/formdata

<Location /upload.php>

SecFilterInheritance Off

</Location>

mod_security Examples Securing FormMail

<Location /cgi-bin/FormMail>

SecFilterSelective ARG_recipient “[a-zA-Z0-9]

+@example\com\$”

</Location>

mod_security and Multi-User

.htaccess

- Users can define rules
- Users can invalidate your rules

Mandatory

- Global
- Per rule

mod_security and Performance Apache 1.3 and Memory Testing

/usr/src/modsecurity-apache-{\$version}/utilrun-test.pl

Speed mod_security Future Apache 2.2 unsupported

New version Problems & Troubleshooting

- Configuration
- Upgrades
- Tools

Configuration Problems

- MaxClients
- VirtualHost:
 - NameVirtualHost directive
 - ServerName directive
- Redirects

Upgrade Problems

- Module Recompile
- Library Mismatch

Tools

- Error Messages

– 400 Series

- 400
- 401
- 403
- 404

– 500 Series The Log Files */usr/local/apache/logs*

access_log

error_log

Log File Example *access_log*:

```
127.0.0.1 - - [02/Jun/2006:12:16:50 -0500] "GET /~kpower/test.php HTTP/1.1"  
500 697 "-" "Mozilla/5.0 (X11; U; Linux i686;en-US; rv:1.8.0.3)  
Gecko/20060523 Ubuntu/dapper Firefox/1.5.0.3"
```

Log File Example *error_log*:

```
[Fri Jun 02 12:16:50 2006] [alert] [client 127.0.0.1]  
/home/kpower/public_html/.htaccess:php_flag not allowed here
```

Configuration Testing

/usr/local/apache/bin/httpd -t -f file will show results.