

TikiModSecurity

Protect your dynamic webapps using <http://www.modsecurity.org/>

On gentoo

```
emerge mod_security
```

Then setup `/etc/apache2/conf/modules.d/99_mod_security.conf`

Most important is, you will only want to filter your dynamic content, not the static pages, so make sure the 'SecFilterEngine' directive is set to 'DynamicOnly'.

For protecting Tikiwiki these are useful:

```
SecFilter "tiki-install.php"  
SecFilter "tiki-edit_templates.php"
```

The modsecurity rules at gotroot got updated on aug12 2005, check them out:

http://www.gotroot.com/mod_security+rules

also see the autoupdater script there: "Downloading the rules automatically" at the bottom of the page...

Take a look at the example below for inspiration:

This script should work with modsecurity 1.8.6 and apache2.

```
<IfDefine SECURITY>  
  <IfModule !mod_security.c>  
    LoadModule security_module      extramodules/mod_security.so  
  </IfModule>  
</IfDefine>  
  
# Examples below are taken from the online documentation  
# Refer to:  
# http://www.modsecurity.org/documentation/quick-examples.html  
  
<IfModule mod_security.c>  
  
  # Turn the filtering engine On or Off  
  SecFilterEngine On  
  SecFilter DynamicOnly  
  # Action to take by default  
  SecFilterDefaultAction "deny,log,status:403"  
  
  SecServerSignature "Apache2"  
  # Make sure that URL encoding is valid  
  SecFilterCheckURLEncoding On
```

```
SecFilterCheckUnicodeEncoding Off
SecFilterCheckCookieFormat Off
# Should mod_security inspect POST payloads
SecFilterScanPOST Off

# Only allow bytes from this range
SecFilterForceByteRange 1 255

# The audit engine works independently and
# can be turned On or Off on the per-server or
# on the per-directory basis. "On" will log everything,
# "DynamicOrRelevant" will log dynamic requests or violations,
# and "RelevantOnly" will only log policy violations
SecAuditEngine RelevantOnly

# The name of the audit log file
SecAuditLog logs/audit_log

SecFilterDebugLog logs/modsec_debug_log
SecFilterDebugLevel 0

# SecFilterSelective REQUEST_METHOD "^POST$" chain
# SecFilterSelective HTTP_CONTENT-TYPE "!(^application/x-www-form-
urlencoded$|^multipart/form-data;)"

SecFilterSelective HTTP_Transfer-Encoding "!^$"

# Prevent OS specific keywords
SecFilter /etc/passwd
SecFilter /etc/shadow

# Prevent path traversal (..) attacks
SecFilter "\.\.\/"

# Weaker XSS protection but allows common HTML tags
SecFilter "<[[:space:]]*script"

# Prevent XSS attacks (HTML/Javascript injection)
SecFilter "<(.\|\\n)+>"

# Very crude filters to prevent SQL injection attacks
SecFilter "delete[[:space:]]+from"
SecFilter "insert[[:space:]]+into"
SecFilter "select.+from"
SecFilterSelective COOKIE_sessionid "!^(|[0-9]{1,9})$"
....
# Require HTTP_USER_AGENT and HTTP_HOST headers
SecFilterSelective "HTTP_USER_AGENT|HTTP_HOST" "^$"
SecFilterSelective "HTTP_ACCEPT" "^$" log,pass
....
# Forbid file upload
#SecFilterSelective "HTTP_CONTENT_TYPE" multipart/form-data
```

```
# Only watch argument p1
#SecFilterSelective "ARG_p1" 555

# Watch all arguments except p1
#SecFilterSelective "ARGS|!ARG_p2" 666

# Only allow our own test utility to send requests (or Mozilla)
#SecFilterSelective HTTP_USER_AGENT "!(mod_security|mozilla)"

# Do not allow variables with this name
#SecFilterSelective ARGS_NAMES 777

# Do now allow this variable value (names are ok)
#SecFilterSelective ARGS_VALUES 888

# Test for a POST variable parsing bug, see test #41
#SecFilterSelective ARG_p2 AAA

# Stop spamming through FormMail
# note the exclamation mark at the beginning
# of the filter - only requests that match this regex will
# be allowed
#<Location /cgi-bin/FormMail>
#   SecFilterSelective "ARG_recipient" "!@webkreator.com$"
#</Location>

# when allowing upload, only allow images
# note that this is not foolproof, a determined attacker
# could get around this.
#<Location /fileupload.php>
#   SecFilterInheritance Off
#   SecFilterSelective POST_PAYLOAD "!image/(jpeg|bmp|gif)"
#</Location>
# WEB-ATTACKS ps command attempt
SecFilterSelective THE_REQUEST "/bin/ps"

# WEB-ATTACKS /bin/ps command attempt
SecFilterSelective THE_REQUEST "ps\x20"

# WEB-ATTACKS wget command attempt
SecFilter "wget\x20"

# WEB-ATTACKS uname -a command attempt
SecFilter "uname\x20-a"

# WEB-ATTACKS /usr/bin/id command attempt
SecFilter "/usr/bin/id"

# WEB-ATTACKS id command attempt
SecFilter "\;id"

# WEB-ATTACKS echo command attempt
SecFilter "/bin/echo"
```

```
# WEB-ATTACKS kill command attempt
SecFilter "/bin/kill"

# WEB-ATTACKS chmod command attempt
SecFilter "/bin/chmod"

# WEB-ATTACKS chgrp command attempt
SecFilter "/chgrp"

# WEB-ATTACKS chown command attempt
SecFilter "/chown"

# WEB-ATTACKS chsh command attempt
SecFilter "/usr/bin/chsh"

# WEB-ATTACKS tftp command attempt
SecFilter "tftp\x20"

# WEB-ATTACKS /usr/bin/gcc command attempt
SecFilter "/usr/bin/gcc"

# WEB-ATTACKS gcc command attempt
SecFilter "gcc\x20-o"

# WEB-ATTACKS /usr/bin/cc command attempt
SecFilter "/usr/bin/cc"

# WEB-ATTACKS cc command attempt
SecFilter "cc\x20"

# WEB-ATTACKS /usr/bin/cpp command attempt
SecFilter "/usr/bin/cpp"

# WEB-ATTACKS cpp command attempt
SecFilter "cpp\x20"

# WEB-ATTACKS /usr/bin/g++ command attempt
SecFilter "/usr/bin/g\+\+"
# WEB-ATTACKS g++ command attempt
SecFilter "g\+\+\x20"

# WEB-ATTACKS bin/python access attempt
SecFilter "bin/python"

# WEB-ATTACKS python access attempt
SecFilter "python\x20"

# WEB-ATTACKS bin/tclsh execution attempt
SecFilter "bin/tclsh"

# WEB-ATTACKS tclsh execution attempt
SecFilter "tclsh8\x20"

# WEB-ATTACKS bin/nasm command attempt
```

```
SecFilter "bin/nasm"

# WEB-ATTACKS nasm command attempt
SecFilter "nasm\x20"

# WEB-ATTACKS /usr/bin/perl execution attempt
SecFilter "/usr/bin/perl"

# WEB-ATTACKS perl execution attempt
SecFilter "perl\x20"

# WEB-ATTACKS nt admin addition attempt
SecFilter "net localgroup administrators /add"

# WEB-ATTACKS traceroute command attempt
SecFilter "traceroute\x20"

# WEB-ATTACKS ping command attempt
SecFilter "/bin/ping"

# WEB-ATTACKS netcat command attempt
SecFilter "nc\x20"

# WEB-ATTACKS nmap command attempt
SecFilter "nmap\x20"

# WEB-ATTACKS xterm command attempt
SecFilter "/usr/X11R6/bin/xterm"

# WEB-ATTACKS X application to remote host attempt
SecFilter "\x20-display\x20"

# WEB-ATTACKS lsof command attempt
SecFilter "lsof\x20"

# WEB-ATTACKS mail command attempt
SecFilter "/bin/mail"

# WEB-ATTACKS mail command attempt
SecFilter "mail\x20"

# WEB-ATTACKS /bin/ls command attempt
SecFilterSelective THE_REQUEST "/bin/ls"

# WEB-ATTACKS /etc/inetd.conf access
SecFilter "/etc/inetd.conf" log,pass

# WEB-ATTACKS /etc/motd access
SecFilter "/etc/motd" log,pass

# WEB-ATTACKS /etc/shadow access
SecFilter "/etc/shadow" log,pass

# WEB-ATTACKS conf/httpd.conf attempt
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```
SecFilter "conf/httpd\.conf" log,pass

# WEB-ATTACKS .htgroup access
SecFilterSelective THE_REQUEST "\.htgroup" log,pass

# WEB-ATTACKS .htgroup access
SecFilterSelective THE_REQUEST "tiki\-.install\.php" log,pass

# WEB-CCGI bash access
SecFilterSelective THE_REQUEST "/bash" log,pass

# WEB-CGI perl.exe command attempt
SecFilterSelective THE_REQUEST "/perl\.exe\?"

# WEB-CGI perl.exe access
SecFilterSelective THE_REQUEST "/perl\.exe"

# WEB-CGI perl command attempt
SecFilterSelective THE_REQUEST "/perl\?"

# WEB-CGI zsh access
SecFilterSelective THE_REQUEST "/zsh"

# WEB-CGI csh access
SecFilterSelective THE_REQUEST "/csh"

# WEB-CGI tcsh access
SecFilterSelective THE_REQUEST "/tcsh"

# WEB-CGI rsh access
SecFilterSelective THE_REQUEST "/rsh"

# WEB-CGI ksh access
SecFilterSelective THE_REQUEST "/ksh"

# WEB-CGI swc access
SecFilterSelective THE_REQUEST "/swc"

# WEB-CGI AltaVista Intranet Search directory traversal attempt
SecFilterSelective THE_REQUEST "/query\?mss=\.\. ."

# WEB-CGI test.bat access
SecFilterSelective THE_REQUEST "/test\.bat" log,pass

# WEB-CGI input.bat access
SecFilterSelective THE_REQUEST "/input\.bat" log,pass

# WEB-CGI input2.bat access
SecFilterSelective THE_REQUEST "/input2\.bat" log,pass

# WEB-CGI envout.bat access
SecFilterSelective THE_REQUEST "/envout\.bat" log,pass

# WEB-CGI echo.bat arbitrary command execution attempt
```

```
SecFilterSelective THE_REQUEST "/echo\.bat" chain
SecFilter "&"

# WEB-CGI echo.bat access
SecFilterSelective THE_REQUEST "/echo\.bat" log,pass

# WEB-CGI hello.bat arbitrary command execution attempt
SecFilterSelective THE_REQUEST "/hello\.bat" chain
SecFilter "&"

# WEB-CGI hello.bat access
SecFilterSelective THE_REQUEST "/hello\.bat" log,pass

# WEB-CGI tst.bat access
SecFilterSelective THE_REQUEST "/tst\.bat" log,pass

# WEB-CLIENT Outlook EML access
SecFilterSelective THE_REQUEST "\.eml"

# WEB-CLIENT XMLHttpRequest attempt
SecFilter "file:\/\/"

# WEB-CLIENT readme.eml download attempt
SecFilterSelective THE_REQUEST "/readme\.eml"

# WEB-CLIENT readme.eml autoload attempt
SecFilter "window\.open\\(\"readme\.eml\""

# WEB-CLIENT Javascript document.domain attempt
SecFilter "document\.domain\"

# WEB-CLIENT Javascript URL host spoofing attempt
SecFilter "javascript:\/\/"

# WEB-IIS unicode directory traversal attempt
SecFilter "/\.\.\xc0\xaf\.\./"

# WEB-IIS unicode directory traversal attempt
SecFilter "/\.\.\xc1\x1c\.\./"

# WEB-IIS unicode directory traversal attempt
SecFilter "/\.\.\xc1\x9c\.\./"

# WEB-IIS unicode directory traversal attempt
SecFilter "/\.\.\x255c\.\."

# WEB-MISC cross site scripting attempt
SecFilter ""

# WEB-MISC cross site scripting \ (img src=javascript\ ) attempt
SecFilter "img src=javascript"

# WEB-MISC Cisco IOS HTTP configuration attempt
SecFilterSelective THE_REQUEST "/exec/"
```

```
# WEB-MISC Netscape Enterprise DOS
SecFilter "REVL0G / "
# WEB-MISC Netscape Enterprise directory listing attempt
#SecFilter "INDEX "

# WEB-MISC iPlanet GETPROPERTIES attempt
SecFilter "GETPROPERTIES"

# WEB-MISC weblogic view source attempt
SecFilterSelective THE_REQUEST "\.js\x70"

# WEB-MISC Tomcat directory traversal attempt
SecFilterSelective THE_REQUEST "\x00\.jsp"

# WEB-MISC Tomcat view source attempt
SecFilterSelective THE_REQUEST "\x252ejsp"

# WEB-MISC ftp attempt
SecFilter "ftp\.exe" log,pass

# WEB-MISC xp_enumdsn attempt
SecFilter "xp_enumdsn"

# WEB-MISC xp_filelist attempt
SecFilter "xp_filelist"

# WEB-MISC xp_availablemedia attempt
SecFilter "xp_availablemedia"

# WEB-MISC xp_cmdshell attempt
SecFilter "xp_cmdshell"

# WEB-MISC nc.exe attempt
SecFilter "nc\.exe" log,pass

# WEB-MISC wsh attempt
SecFilter "wsh\.exe" log,pass

# WEB-MISC rcmd attempt
SecFilter "rcmd\.exe" log,pass

# WEB-MISC telnet attempt
SecFilter "telnet\.exe" log,pass

# WEB-MISC net attempt
SecFilter "net\.exe" log,pass

# WEB-MISC tftp attempt
SecFilter "tftp\.exe" log,pass

# WEB-MISC xp_regread attempt
SecFilter "xp_regread" log,pass

# WEB-MISC xp_regwrite attempt
```



```
SecFilter "xp_regwrite" log,pass

# WEB-MISC xp_regdeletekey attempt
SecFilter "xp_regdeletekey" log,pass

# WEB-MISC WebDAV search access
SecFilter "SEARCH " log,pass
# WEB-MISC .htpasswd access
SecFilter "\.htpasswd"

# WEB-MISC Lotus Domino directory traversal
SecFilterSelective THE_REQUEST "\.\/"

# WEB-MISC WebDAV propfind access
SecFilter "xmlns\:a=\"DAV\">" log,pass

# WEB-MISC Allaire JRUN DOS attempt
SecFilterSelective THE_REQUEST "servlet\/\.\.\.\.\.\.\."

# WEB-MISC ICQ Webfront HTTP DOS
SecFilterSelective THE_REQUEST "\?\?\?\?\?\?\?\?\?\?"

# WEB-MISC cd..
SecFilter "cd\.\."

# WEB-MISC ///cgi-bin access
SecFilterSelective THE_REQUEST "///cgi-bin"

# WEB-MISC /cgi-bin/// access
SecFilterSelective THE_REQUEST "/cgi-bin///"

# WEB-MISC /~root access
SecFilterSelective THE_REQUEST "/~root"

# WEB-MISC /~ftp access
SecFilterSelective THE_REQUEST "/~ftp"

# WEB-MISC cat%20 access
#SecFilter "cat\x20"

# WEB-MISC get32.exe access
SecFilterSelective THE_REQUEST "/get32\.exe"

# WEB-MISC whisker HEAD/.
SecFilter "HEAD\/\."

# WEB-MISC long basic authorization string
SecFilter "Authorization\: Basic "

# WEB-MISC http directory traversal
SecFilter "\.\/"

# WEB-MISC sadmind worm access
SecFilter "GET x HTTP/1\0"
```

```
# WEB-MISC mod-plsql administration access
SecFilterSelective THE_REQUEST "/admin/" log,pass

# WEB-MISC Phorecast remote code execution attempt
SecFilter "includedir="

# WEB-MISC .history access
SecFilterSelective THE_REQUEST "/\.history"

# WEB-MISC .bash_history access
SecFilterSelective THE_REQUEST "/\.bash_history"
# WEB-MISC /~nobody access
SecFilterSelective THE_REQUEST "/~nobody"

# WEB-MISC SecureSite authentication bypass attempt
SecFilter "secure_site, ok"

# WEB-MISC Apache Chunked-Encoding worm attempt
SecFilter "CCCCCCC\ : AAAAAAAAAAAAAAAAAAAAAA"

# WEB-MISC Transfer-Encoding\ : chunked
SecFilter "chunked"

# WEB-MISC webalizer access
#SecFilterSelective THE_REQUEST "/webalizer/" log,pass

# WEB-MISC robots.txt access
SecFilterSelective THE_REQUEST "/robots\.txt" log,pass

# WEB-MISC robot.txt access
SecFilterSelective THE_REQUEST "/robot\.txt" log,pass

# WEB-MISC Linksys router default password login attempt \(:admin\)
SecFilter "Authorization\ : Basic OmFkbWlu"

# WEB-MISC Linksys router default password login attempt \(\admin\:admin\)
SecFilter "YWRtaW46YWRtaW4"

# WEB-MISC perl post attempt
SecFilterSelective THE_REQUEST "/perl/" chain
SecFilter "POST"

# WEB-MISC TRACE attempt
SecFilter "TRACE"

# WEB-PHP squirrel mail spell-check arbitrary command attempt
SecFilterSelective THE_REQUEST "/squirrelspell/modules/check_me\.mod\.php" chain
SecFilter "SQSPELL_APP\[

# WEB-PHP squirrel mail theme arbitrary command attempt
SecFilterSelective THE_REQUEST "/left_main\.php" chain
SecFilter "cmdd="

# WEB-PHP PHP-Wiki cross site scripting attempt
```

```
SecFilterSelective THE_REQUEST ""  
SecFilter "delete[:space:]+from"  
SecFilter "insert[:space:]+into"  
SecFilter "select.+from"
```

```
</IfModule>
```