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Protect Apache using Mod_Security and Mod_evasive on RHEL/CentOS & Fedora

By [Ravi Saive](#) Under: [Apache](#), [CentOS](#), [Fedora](#), [Linux Distro's](#), [RedHat](#) On: [June 27, 2012](#)

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This is our first series on Apache security, in this article we will guide you'll how to install and configure **Mod_Security** on **RHEL 6.2/6.1/6/5.8**, **CentOS 6.2/6.1/6/5.8** and **Fedora 17,16,15,14,13,12** systems using source code.

These two great security modules protect **Apache** server from brute force attacks and DOS attacks. Before, moving provide you a little description on these tow modules.



Install mod_security and mod_evasive

What is Mod_Security?

Mod_Security is an open source web application firewall (WAF) and intrusion detection and prevention system for web applications. It is used to protect and monitor real time HTTP traffic and web applications from brute fore attacks.

What is Mod_Evasive?

Mod_Evasive is an open source evasive maneuvers system for **Apache** server to provide evasive action in the event of HTTP brute force, Dos or DDos attack. It was designed to use as a network traffic detection and network management tool and can be easily configured and integrated into firewalls, ipchains, routers etc. Presently, it sends abuses reports via email and syslog facilities.

Install Mod_Security and Mod_evasive on **RHEL 6.2/6.1/6/5.8**, **CentOS 6.2/6.1/6/5.8** and **Fedora 17,16,15,14,13,12**

How to Install Mod_Security on RHEL/CentOS & Fedora

You must have [LAMP setup](#) installed and configured in your system before installing mod_security.

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Step 1: Installing Dependencies for mod_security

Firstly, we required to install some dependency packages for mod_security. Run the following commands on your server OS.

```
## For RHEL/CentOS 6.2/6.1/6/5.8 ##
# yum install gcc make
# yum install libxml2 libxml2-devel httpd-devel pcre-devel curl-devel

## For Fedora 17,16,15,14,13,12 ##
# yum install gcc make
# yum install libxml2 libxml2-devel httpd-devel pcre-devel curl-devel
```

Step 2: Installing Mod_Security

As I said above that we use source code to install mod_security. Run the following commands as root.

```
## For RHEL/CentOS 6.2/6.1/6/5.8 ##
# cd /usr/src
# wget http://www.modsecurity.org/download/modsecurity-apache_2.6.6.tar.gz
# tar xzf modsecurity-apache_2.6.6.tar.gz
# cd modsecurity-apache_2.6.6
# ./configure
# make install
# cp modsecurity.conf-recommended /etc/httpd/conf.d/modsecurity.conf

## For Fedora 17,16,15,14,13,12 ##
# cd /usr/src
# wget http://www.modsecurity.org/download/modsecurity-apache_2.6.6.tar.gz
# tar xzf modsecurity-apache_2.6.6.tar.gz
# cd modsecurity-apache_2.6.6
# ./configure
# make install
# cp modsecurity.conf-recommended /etc/httpd/conf.d/modsecurity.conf
```

Step 3: Downloading OWASP Mod_Security Core Rule Set

Mod_Security requires OWASP (Open Web Application Security Project) core rules for base configuration, these rules are used to protect from unknown vulnerabilities which often found on web applications. So, here we are going to download and install rule set for mod_security. Run the following commands.

```
## For RHEL/CentOS 6.2/6.1/6/5.8 ##
# cd /etc/httpd/
# wget http://downloads.sourceforge.net/project/mod-security/modsecurity-crs/0-CURRENT/modsecurity-crs_2.2.5.tar.gz
# tar xzf modsecurity-crs_2.2.5.tar.gz
# mv modsecurity-crs_2.2.5 modsecurity-crs
# cd modsecurity-crs
# cp modsecurity_crs_10_setup.conf.example modsecurity_crs_10_config.conf

## For Fedora 17,16,15,14,13,12 ##
# cd /etc/httpd/
# wget http://downloads.sourceforge.net/project/mod-security/modsecurity-crs/0-CURRENT/modsecurity-crs_2.2.5.tar.gz
# tar xzf modsecurity-crs_2.2.5.tar.gz
# mv modsecurity-crs_2.2.5 modsecurity-crs
# cd modsecurity-crs
# cp modsecurity_crs_10_setup.conf.example modsecurity_crs_10_config.conf
```

Step 4: Configuring Mod_Security

Now, you need to modify your Apache configuration file to load the mod_security module.

```
# vi /etc/httpd/conf/httpd.conf
```

Search for the line **LoadModule** in your httpd.conf and add this below line at the bottom.

```
LoadModule security2_module modules/mod_security2.so
```

Now set the basic rule set in your httpd.conf file. Add the following lines of code at the end of the file.

```
<IfModule security2_module>
    Include modsecurity-crs/modsecurity_crs_10_config.conf
    Include modsecurity-crs/base_rules/*.conf
</IfModule>
```

Next, restart the Apache service to enable mod_security module and their rules.

```
# /etc/init.d/httpd restart
```

For more information on this topic visit the following links for your reference.

1. [ModSecurity Home Page](#)
2. [OWASP ModSecurity Core Rule Set](#)

The above installation is tested on CentOS 5.6 and successfully worked for me, I hope it will also work for you, now let's move further installation of mod_evasive module.

How to Install Mod_Evasive in RHEL/CentOS & Fedora

As we already installed required dependency packages above, so let's install the mod_evasive module.

Step 1: Installing Mod_Evasive

Just run the following commands to install mod_evasive.

```
## For RHEL/CentOS 6.2/6.1/6/5.8 ##
# cd /usr/src
```

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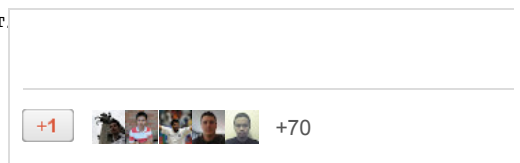
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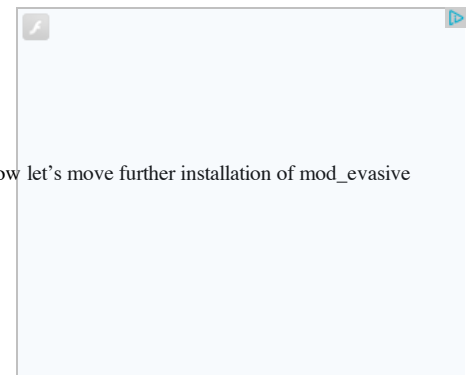
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```
# wget http://www.zdziarski.com/blog/wp-content/uploads/2010/02/mod_evasive_1.10.1.tar.gz
# tar xzf mod_evasive_1.10.1.tar.gz
# cd mod_evasive
# apxs -cia mod_evasive20.c

## For Fedora 17,16,15,14,13,12 ##
# cd /usr/src
# wget http://www.zdziarski.com/blog/wp-content/uploads/2010/02/mod_evasive_1.10.1.tar.gz
# tar xzf mod_evasive_1.10.1.tar.gz
# cd mod_evasive
# apxs -cia mod_evasive20.c
```

Step 2: Configuring Mod_Evasive

By default installation adds the following line of mod_evasive configuration to your Apache configuration file. Please verify that it should be there like similar to below. If you can't see this below line, then add this to your httpd.conf file.

```
LoadModule evasive20_module /usr/lib/httpd/modules/mod_evasive20.so
```

Now add the mod_evasive configuration parameters to your Apache configuration at the end. Replace **someone@somewhere.com** with your Email Id to get email alerts.

```
<IfModule mod_evasive20.c>
DOSHashTableSize 3097
DOSPageCount 2
DOSSiteCount 50
DOSPageInterval 1
DOSSiteInterval 1
DOSBlockingPeriod 60
DOSEmailNotify someone@somewhere.com
</IfModule>
```

Next restart the Apache service to update changes.

```
# /etc/init.d/httpd restart
```

For more additional information visit the [mod_evasive Home Page](#).

Please drop your comments for any queries on installation, we will love to help you out and don't forget to Subscribe to our Updates.



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12 Responses



1. [sholeh](#) says:
[September 5, 2012 at 12:14 pm](#)

Now set the basic rule set in your httpd.conf file. Add the following lines of code at the end of the file ?

```
Include modsecurity-crs/modsecurity_crs_10_config.conf
Include modsecurity-crs/base_rules/*.conf
```

my configure is error ? please give me example

Thanks

[Reply](#)



- o [Ravi Saive](#) says:
[September 5, 2012 at 12:47 pm](#)

Dear Sholeh,

Use command as `httpd -t` and tell me the output of the error.

[Reply](#)



2. [rohit](#) says:
[October 9, 2012 at 9:02 pm](#)

Syntax error on line 47 of /etc/httpd/modsecurity.d/activated_rules/base_rules/modsecurity_crs_21_protocol_anomalies.conf:
 ModSecurity: SkipAfter actions can only be specified by chain starter rules.

please help me out in this.

[Reply](#)



3. [Ravi Saive](#) says:
[October 10, 2012 at 5:21 pm](#)

@ Rohit,

The directory `activated_rules` contains some rules that comes with modsecurity 2.2.5 version and are not compatible with the modsecurity version 2.6.6. In version 2.6.6 there is no such `activated_rules` directory exists. see my article did i mentioned the directory above.

This above article is works with modsecurity 2.6.6 only..

[Reply](#)



4. [Miguel Mello](#) says:
[November 28, 2012 at 9:39 am](#)

Works great! Very nice and helpful tutorial. Thank you.

[Reply](#)



5. [Séries Parlotte](#) says:
[December 10, 2012 at 5:18 am](#)

Hello,

Can we install this on Centos 6.3 ?

[Reply](#)



- o [Ravi Saive](#) says:
[December 10, 2012 at 1:02 pm](#)

@Series Parlotte,
 Yes! You can install it. go ahead..

[Reply](#)



6. [Paul Sandel](#) says:
[December 15, 2012 at 11:35 pm](#)

Thanks for the info, very helpful. Can you recommend a methodology to test the efficacy of the server's security? I'm not a hacker, and do not have a strong understand of their approach

[Reply](#)



7. [sanjeev](#) says:
[January 8, 2013 at 11:05 am](#)

paul either you can use openvas or nessus(only for non-commercial) tool to check server's security

[Reply](#)



8. [Alex](#) says:
[January 18, 2013 at 1:43 am](#)

gracias, funciona muy bien.

[Reply](#)



9. [Tanas Alexandru Florin](#) says:
[February 10, 2013 at 10:15 pm](#)

Thanks but with this 2 module my ram usage uts 500 mb with out any site on my VPS.
How to uninstall this 2 module ?

Thanks

[Reply](#)



10. [Jayb](#) says:
[March 17, 2013 at 12:19 pm](#)

Is there any simple url script to check if mod security is enabled and working. I tried with generic samples from the web, but all of them give 'Not Found' error instead of Access Denied.

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