

Table Of Contents

Table Of Contents ..... 1

mod\_security configuration files ..... 3

[Home](#) > [Faq](#) > [Apache](#)

## Red Hat / CentOS Install mod\_security Apache Intrusion Detection And Prevention Engine

Posted by [Vivek Gite](#) <[vivek@nixcraft.com](mailto:vivek@nixcraft.com)>

How do I install ModSecurity - an open source intrusion detection and prevention engine for web applications under CentOS / RHEL / Red Hat Enterprise Linux 5.x server?



[1]

ModSecurity operates embedded into the web server (httpd), acting as a powerful umbrella - shielding web applications from attacks. In order to use mod\_security, you need to turn on [EPEL repo under CentOS / RHEL](#) <sup>[3]</sup> Linux. Once repo is turned on, type the following command to install ModSecurity:



[2]

```
# yum install mod_security
```

Sample output:

```
Loaded plugins: downloadonly, fastestmirror, priorities, protectbase
Loading mirror speeds from cached hostfile
 * epel: www.gtlib.gatech.edu
 * base: mirror.skiplink.com
 * updates: centos.aol.com
 * addons: mirror.cs.vt.edu
 * extras: mirror.trouble-free.net
0 packages excluded due to repository protections
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package mod_security.x86_64 0:2.5.9-1.el5 set to be updated
--> Finished Dependency Resolution
```

Dependencies Resolved

Package	Arch	Version
Installing:		
mod_security	x86_64	2.5.9-1.el5

Transaction Summary

Install	1 Package(s)
Update	0 Package(s)
Remove	0 Package(s)

Total download size: 935 k

Is this ok [y/N]: y

Downloading Packages:

mod\_security-2.5.9-1.el5.x86\_64.rpm

Running rpm\_check\_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

Installing : mod\_security

[1/1]

Installed: mod\_security.x86\_64 0:2.5.9-1.el5

Complete!

## mod\_security configuration files

1. **/etc/httpd/conf.d/mod\_security.conf** - main configuration file for the mod\_security Apache module.
2. **/etc/httpd/modsecurity.d/** - all other configuration files for the mod\_security Apache.
3. **/etc/httpd/modsecurity.d/modsecurity\_crs\_10\_config.conf** - Configuration contained in this file should be customized for your specific requirements before deployment.
4. **/var/log/httpd/modsec\_debug.log** - Use debug messages for debugging mod\_security rules and other problems.
5. **/var/log/httpd/modsec\_audit.log** - All requests that trigger a ModSecurity events (as detected) or a server error are logged ("RelevantOnly") are logged into this file.

Open /etc/httpd/modsecurity.d/modsecurity\_crs\_10\_config.conf file, enter:

```
# vi /etc/httpd/modsecurity.d/modsecurity_crs_10_config.conf
```

Make sure SecRuleEngine set to "On" to protect webserver for the attacks:

```
SecRuleEngine On
```

Turn on other required options and policies as per your requirements. Finally, restart httpd:

```
# service httpd restart
```

Make sure everything is working:

```
# tail -f /var/log/httpd/error_log
```

Sample output:

```
[Sat May 09 23:18:31 2009] [notice] caught SIGTERM, shutting down
[Sat May 09 23:18:33 2009] [notice] suEXEC mechanism enabled (wrapper: /usr/sbin/suexec)
[Sat May 09 23:18:34 2009] [notice] ModSecurity for Apache/2.5.9 (http://www.modsecurity.org)
[Sat May 09 23:18:34 2009] [notice] Original server signature: Apache/2.2.3 (CentOS)
[Sat May 09 23:18:34 2009] [notice] Digest: generating secret for digest authentication ...
[Sat May 09 23:18:34 2009] [notice] Digest: done
[Sat May 09 23:18:35 2009] [notice] Apache/2.2.0 (Fedora) configured -- resuming normal operations
```

Refer [mod\\_security](#) <sup>[4]</sup> documentations to understand security policies.

4000+ howtos and counting! Want to read more Linux / UNIX howtos, tips and tricks? Subscribe to our [daily email](#) newsletter or [weekly newsletter](#) to make sure you don't miss a single tip/tricks. Alternatively, subscribe via [RSS/XML](#) feed.

Article printed from Frequently Asked Questions About Linux / UNIX: <http://www.cyberciti.biz/faq/>

URL to article: [http://www.cyberciti.biz/faq/rhel-fedora-centos-httpd-mod\\_security-configuration/](http://www.cyberciti.biz/faq/rhel-fedora-centos-httpd-mod_security-configuration/)

URLs in this post:

[1] Image: <http://www.cyberciti.biz/faq/category/apache/>

[2] Image: <http://www.cyberciti.biz/faq/category/redhat-and-friends/>

[3] EPEL repo under CentOS / RHEL: <http://www.cyberciti.biz/faq/rhel-fedora-centos-linux-enable-epel-repo/>

[4] mod\_security: <http://www.modsecurity.org/documentation/>