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Ubuntu 22.04

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- Virtualization
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- Others
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- CentOS Stream 8
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- OpenStack Caracal
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Apache2 : Configure mod_security2022/05/12

Enable [mod_security] module to configure Web Application Firewall (WAF).

[1] Install [mod_security].

```
root@www:~#
apt -y install libapache2-mod-security2
```

[2] Enable [mod_security].

```
root@www:~#
cp -p /etc/modsecurity/modsecurity.conf-recommended /etc/modsecurity/modsecurity.conf

root@www:~#
vi /etc/modsecurity/modsecurity.conf

    line 7 : [SecRuleEngine DetectionOnly] is set as default, it does not block actions
    # if you'd like to block actions, change to [SecRuleEngine On]
    SecRuleEngine DetectionOnly
.....
.....
```

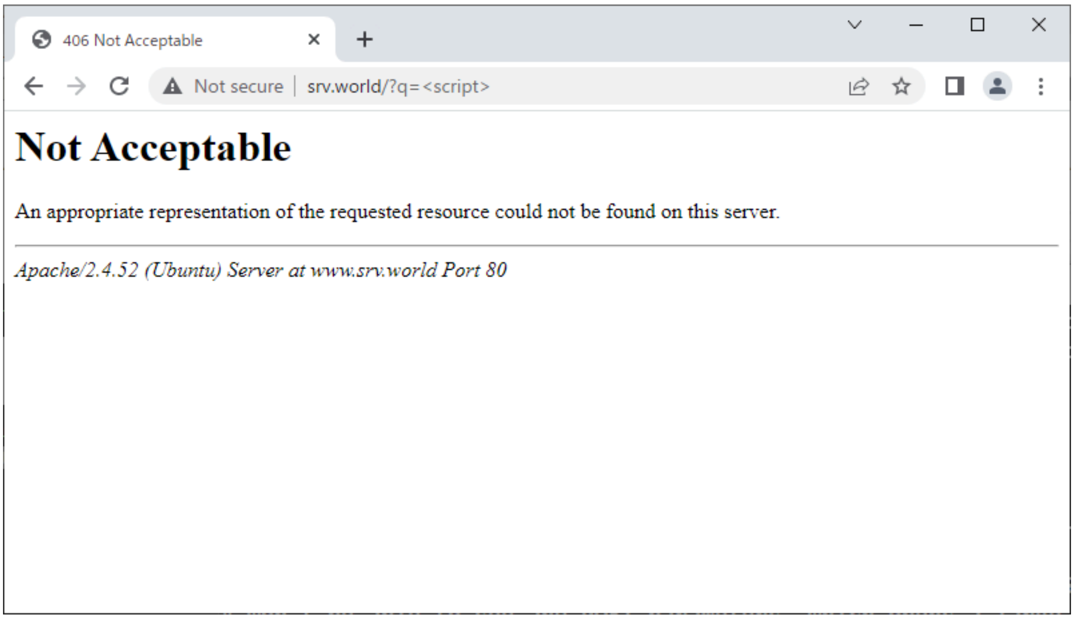
[3] It's possible to write a rule like follows.
⇒ SecRule VARIABLES OPERATOR [ACTIONS]
Each parameter has many kind of values, refer to official documents below.
https://github.com/SpiderLabs/ModSecurity/wiki

[4] For Example, set some rules and verify it works normally.

```
root@www:~#
vi /etc/modsecurity/localrules.conf
# default action when matching rules

SecDefaultAction "phase:2,deny,log,status:406"
# [etc/passwd] is included in request URI

SecRule REQUEST_URI "etc/passwd" "id:'500001'"
# [../] is included in request URI

SecRule REQUEST_URI "\.\./" "id:'500002'"
# [<SCRIPT] is included in arguments

SecRule ARGS "<[Ss][Cc][Rr][Ii][Pp][Tt]" "id:'500003'"
# [SELECT FROM] is included in arguments

SecRule ARGS "[Ss][Ee][Ll][Ee][Cc][Tt][[:space:]]+[Ff][Rr][Oo][Mm]" "id:'500004'"
```

```
root@www:~# systemctl restart apache2
```

[5] Access to the URI which includes words you set and verify it works normally.



Not Acceptable

An appropriate representation of the requested resource could not be found on this server.

Apache/2.4.52 (Ubuntu) Server at www.srv.world Port 80

[6] The logs for [mod_security] is placed in the directory like follows.

```
root@www:~# cat /var/log/apache2/modsec_audit.log


--622ba619-H--
Message: Access denied with code 406 (phase 2). Pattern match "<[Ss][Cc][Rr][Ii][Pp][Tt]" at ARGS:q. [file "/etc/modsecuri
Apache-Error: [file "apache2_util.c"] [line 271] [level 3] [client 10.0.0.5] ModSecurity: Access denied with code 406 (pha
Action: Intercepted (phase 2)
Stopwatch: 1652331282078532 1929 (- - -)
Stopwatch2: 1652331282078532 1929; combined=928, p1=759, p2=34, p3=0, p4=0, p5=135, sr=103, sw=0, l=0, gc=0
Response-Body-Transformed: Dechunked
Producer: ModSecurity for Apache/2.9.5 (http://www.modsecurity.org/); OWASP_CRS/3.3.2.
Server: Apache/2.4.52 (Ubuntu)
Engine-Mode: "ENABLED"

.....
.....
```

[7] General rules are provided and applied by default under the directory below. However maybe you need to customize them for your own web sites not to block necessary requests.

```
root@www:~# ll /usr/share/modsecurity-crs/rules


total 676
drwxr-xr-x 2 root root  4096 May 12 04:48 ./
drwxr-xr-x 4 root root  4096 May 12 04:48 ../
-rw-r--r-- 1 root root 13513 Aug 24  2021 REQUEST-901-INITIALIZATION.conf
-rw-r--r-- 1 root root 13555 Aug 24  2021 REQUEST-903.9001-DRUPAL-EXCLUSION-RULES.conf
-rw-r--r-- 1 root root 25812 Aug 24  2021 REQUEST-903.9002-WORDPRESS-EXCLUSION-RULES.conf
-rw-r--r-- 1 root root 10642 Aug 24  2021 REQUEST-903.9003-NEXTCLOUD-EXCLUSION-RULES.conf
-rw-r--r-- 1 root root  7822 Aug 24  2021 REQUEST-903.9004-DOKUWIKI-EXCLUSION-RULES.conf
-rw-r--r-- 1 root root  1876 Aug 24  2021 REQUEST-903.9005-CPANEL-EXCLUSION-RULES.conf
.....
.....
```

Matched Content

Ubuntu 22.04 : Apache2

- (01) Install Apache2
- (02) Configure Virtual Hostings
- (03) Configure SSL/TLS
- (04) Enable Userdir
- (05) Use CGI Scripts
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- (07) PHP + PHP-FPM
- (08) Basic Authentication
- (09) Configure WebDAV Folder
- (10) Basic Authentication + PAM
- (11) Kerberos Authentication
- (12) Configure mod_md

- (13) Configure mod_proxy
- (14) Configure mod_security
- (15) Configure mod_ratelimit
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