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# Apache HTTPD

## Method

```
<Location "/*">
  <LimitExcept GET POST>
    Order deny,allow
    Deny from all
  </LimitExcept>
</Location>
```

## Apache httpd logfile permission(umask)

644 . umask umask가 0022

### rpm

rpm /etc/sysconfig/httpd 가 .

```
umask 0027
```

### envvars

rpm . apache apachectl  
 envvars . ( )

```
# pick up any necessary environment variables
if test -f /APP/httpd-2.4.39/bin/envvars; then
  . /APP/httpd-2.4.39/bin/envvars
fi
```

envvars envvars umask 가

```
umask 0027 #<- 4 .
```

## apachectl

```
apachectl envvars (Redhat JBCS(Jboss core services)
) apachectl umask .
```

```
umask 0027 #<- 4 .
```

```
umask .
```

## Host Header Poisoning / Injection

HTTP Host Header [www.example.com](http://www.example.com)  
example.com

- Apache HTTPD

```
RewriteEngine On
RewriteCond %{HTTP_HOST} !^(www.example.com|example.com)$ [NC]
RewriteRule .* - [F]
```

```
VirtualHost .
```

```
<VirtualHost _default_*>
DocumentRoot /www/default
</VirtualHost>
```

- JBoss EAP 7 Undertow expression-filter

```
/subsystem=undertow/configuration=filter/expression-filter=host-
checker:add(expression="not(equals(%{i,Host}, www.example.com) or
equals(%{i,Host}, example.com)) -> response-code(403)")
/subsystem=undertow/server=default-server/host=default-host/filter-ref=host-
checker:add
```

```
xml .
```

```
<subsystem xmlns="urn:jboss:domain:undertow:3.1">
```

```

<buffer-cache name="default"/>
<server name="default-server">
    ...
    <host name="default-host" >
        ...
        <filter-ref name="host-checker"/>
    </host>
</server>
<filters>
    ...
    <expression-filter name="host-checker"
expression="not(equals(%{i,HOST}, www.example.com) or equals(%{i,HOST},
example.com)) -> response-code(403)"/>
</filters>
</subsystem>

```

- **JBoss EAP 6**      rewrite

```

<subsystem xmlns="urn:jboss:domain:web:2.1" default-virtual-server="default-
host" native="false">
    <connector name="http" protocol="HTTP/1.1" scheme="http" socket-
binding="http"/>
    <connector name="ajp" protocol="AJP/1.3" scheme="http" socket-
binding="ajp"/>
    <virtual-server name="default-host" enable-welcome-root="true">
        <alias name="localhost"/>
        <alias name="example.com"/>
        <!-- added -->
        <rewrite pattern="^(.*)$" substitution="-" flags="F">
            <condition test="%{HTTP:HOST}"
pattern="!(www.example.com|example.com)" flags="NC"/>
        </rewrite>
    </virtual-server>
</subsystem>

```

- <https://access.redhat.com/solutions/3166341>
- <https://access.redhat.com/solutions/3057511>

## Content-Security-Policy (CSP)

Content-Security-Policy (CSP)      HTTP      CSP      가

. CSP      Same-Origin-Policy(SOP)      ,      가      . CSP

가      .      Content-Security-

## Policy

가

```
<IfModule mod_headers.c>

# Content-Security-Policy
Content-Security-Policy 가

Header set Content-Security-Policy "default-src 'self'"

#
Header set Content-Security-Policy "default-src 'self' *.mydomain.com"

#
, 가

Header set Content-Security-Policy-Report-Only "policy"

#
Header set Content-Security-Policy "default-src 'self'; img-src
*.cloudflare.com; script-src 'self' www.google-analytics.com
*.cloudflare.com"

</IfModule>
```

- <https://content-security-policy.com/>
- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Security-Policy>

## X-Content-Type-Options

X-Content-Type-Options 가 HTTP nosniff MIME 가 X-Content-Type-Options MIME

MIME 가 MIME MIME

MIME

HTTP

nosniff X-Content-Type-Options

```
<IfModule mod_headers.c>
```

```
Header set X-Content-Type-Options nosniff
</IfModule>
```

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Content-Type-Options>

## X-Frame-Options

X-Frame-Options HTTP header is used to prevent clickjacking attacks. It specifies which protocols are allowed to embed the page in a frame. The allowed protocols are frame, iframe, and object. If the header is not present, the page can be embedded in a frame. If the header is present and set to DENY, the page cannot be embedded in a frame. If the header is present and set to SAMEORIGIN, the page can only be embedded in a frame from the same origin.

```
<IfModule mod_headers.c>
  Header set X-Frame-Options DENY
</IfModule>
```

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

## X-XSS-Protection

X-XSS-Protection HTTP header is used to prevent cross-site scripting (XSS) attacks. It specifies whether the browser should block the page if it detects a potential XSS attack. The header can be set to 0, 1, or 1; mode=block. If the header is not present, the browser will block the page if it detects a potential XSS attack. If the header is present and set to 0, the browser will not block the page. If the header is present and set to 1, the browser will block the page. If the header is present and set to 1; mode=block, the browser will block the page and show a custom error message.

```
<IfModule mod_headers.c>
  Header set X-XSS-Protection "1; mode=block"
</IfModule>
```

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-XSS-Protection>

## CSRF (Cross-Site Request Forgery)

	가
	. SameSite (CSRF)
80	SameSite Lax Strict
None	Secure None Lax

```
<ifmodule mod_headers.c>
# none
Header always edit Set-Cookie (.*) "$1; Secure; SameSite=None;"

# strict
Header always edit Set-Cookie (.*) "$1; SameSite=strict"
</ifmodule>
```

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Set-Cookie#samesitesamesite-value>

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