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# Apache HTTPD

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## Method

/etc/httpd/conf.d/method.conf

```
<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

envvars

. apache

apachectl

. ( )

```
# 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
```

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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  
example.com

www.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) . CSP Same-Origin-Policy(SOP)	HTTP ,	CSP 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 HTTP nosniff 가 X-Content-  
Type-Options 가 MIME MIME  
MIME , 가 MIME  
MIME MIME 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>

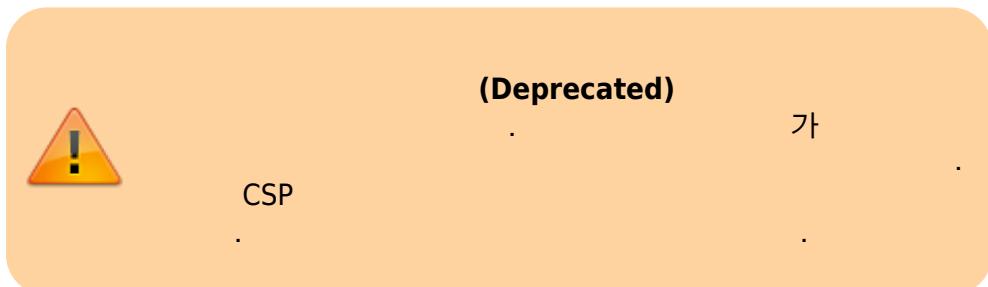
## X-Frame-Options

X	HTTP	X-Frame-Options	가
	X-Frame-Options	frame, iframe, object	
가		frame, iframe	object
		가	
		HTTP	가
X-Frame-Options			

```
<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



XSS HTTP X-XSS-Protection 가  
. X-XSS-Protection

XSS-Protection

가

0

```
<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)

80 None

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

```
<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>

Analytics

가

atl.kr

가

Google

```
<IfModule mod_headers.c>
  #
  #
  # 1. CSRF          (SameSite Cookie Attribute)
  #
  #
  #           SameSite=Lax      가
  # 'Lax'      CSRF          , GET
  #
  # 'Strict'    ,
  #
  Header edit Set-Cookie ^(.*)$ "$1; SameSite=Lax"

  #
  #
  # 2.          (CSP)
  #
  #
  # atl.kr      Google Analytics(GA4)
  Header set Content-Security-Policy "default-src 'self'; \
    script-src 'self' https://www.googletagmanager.com
https://www.google-analytics.com; \
    style-src 'self' 'unsafe-inline'; \
    img-src 'self' data: https://www.google-analytics.com
https://stats.g.doubleclick.net; \
    connect-src 'self' https://*.google-analytics.com; \
    font-src 'self'; \
    object-src 'none'; \
    frame-ancestors 'self'; \
    form-action 'self'; \
    base-uri 'self'; \
    upgrade-insecure-requests;"

  #
  #
  # 3.
  #
  #
  #           (Clickjacking)      ( )
  Header set X-Frame-Options SAMEORIGIN

  # MIME          (Sniffing)
  Header set X-Content-Type-Options nosniff

  # HSTS (Strict-Transport-Security):      HTTPS
  Header set Strict-Transport-Security "max-age=31536000;
includeSubDomains; preload"

  # Referrer-Policy:
  Header set Referrer-Policy "strict-origin-when-cross-origin"
```

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```
# Permissions-Policy:  
Header set Permissions-Policy "geolocation=(), midi=(), camera=(),  
microphone=()"  
</IfModule>
```

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