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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 . umask가 0022

. umask

.

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
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) . CSP
 , 가
 .
 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
Type-Options 가 HTTP nosniff 가 X-Content-
MIME . nosniff MIME MIME
MIME
MIME
nosniff X-Content-Type-Options HTTP

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

```
<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



(Deprecated)

CSP

XSS HTTP X-XSS-Protection 가
X-XSS-Protection
XSS-Protection 가 0 X-

```
<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)

SameSite Lax Strict

80 None SameSite 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>
```

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"

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

```

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

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