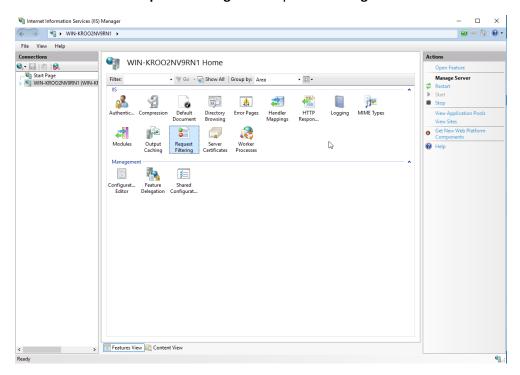
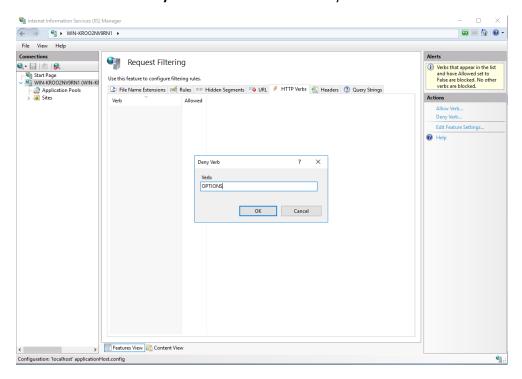
1. Disable Unsafe HTTP Methods IIS.

I. Locate **Request filtering** under Open **IIS manager**.



II. Click on **Deny Verb** and add method that you want to disable.



```
$ curl -X OPTIONS http://192.168.0.109/ --head Before disable

HTTP/1.1 200 OK
Allow: OPTIONS, TRACE, GET, HEAD, POST
Server: Microsoft-IIS/10.0
Public: OPTIONS, TRACE, GET, HEAD, POST
Date: Sun, 12 Jul 2020 11:53:53 GMT
Content-Length: 0

$ curl -X OPTIONS http://192.168.0.109/ --head
HTTP/1.1 404 Not Found
Content-Type: text/html
Server: Microsoft-IIS/10.0
Date: Sun, 12 Jul 2020 12:04:35 GMT
Connection: close
Content-Length: 1245
```

2. Disable Unsafe HTTP Methods Apache.

Locate httpd.conf file one of below (It may vary on different system look into below list)

```
/etc/apache2/httpd.conf
/etc/apache2/apache2.conf
/etc/httpd/httpd.conf
/etc/httpd/conf/httpd.conf
```

Add the below code to your **httpd.conf** file.

```
LoadModule rewrite_module modules/mod_rewrite.so
RewriteEngine On
RewriteCond %{REQUEST_METHOD} ^(OPTIONS|TRACE)
RewriteRule .* - [F]
```

Save and restart your server.

Sample code here:

```
#TraceEnable Off
#
# This is the main Apache HTTP server configuration file. It contains the
# configuration directives that give the server its instructions.
# See <URL:http://httpd.apache.org/docs/2.4/> for detailed information.
# In particular, see
# <URL:http://httpd.apache.org/docs/2.4/mod/directives.html>
# for a discussion of each configuration directive.
#
# See the httpd.conf(5) man page for more information on this configuration,
```

```
# and httpd.service(8) on using and configuring the httpd service.
# Do NOT simply read the instructions in here without understanding
# what they do. They're here only as hints or reminders. If you are
unsure
# consult the online docs. You have been warned.
# Configuration and logfile names: If the filenames you specify for
# of the server's control files begin with "/" (or "drive:/" for
Win32), the
# server will use that explicit path. If the filenames do *not* begin
# with "/", the value of ServerRoot is prepended -- so 'log/access log'
# with ServerRoot set to '/www' will be interpreted by the
# server as '/www/log/access log', where as '/log/access log' will be
# interpreted as '/log/access log'.
# ServerRoot: The top of the directory tree under which the server's
# configuration, error, and log files are kept.
# Do not add a slash at the end of the directory path. If you point
# ServerRoot at a non-local disk, be sure to specify a local disk on
the
# Mutex directive, if file-based mutexes are used. If you wish to
share the
# same ServerRoot for multiple httpd daemons, you will need to change
# least PidFile.
ServerRoot "/etc/httpd"
# Listen: Allows you to bind Apache to specific IP addresses and/or
```

```
# ports, instead of the default. See also the <VirtualHost>
# directive.
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#Listen 12.34.56.78:80
Listen 80
#Listen 192.168.8.133:80
# Dynamic Shared Object (DSO) Support
# To be able to use the functionality of a module which was built as a
DSO you
# have to place corresponding `LoadModule' lines at this location so
# directives contained in it are actually available before they are
used.
# Statically compiled modules (those listed by `httpd -l') do not need
# to be loaded here.
# Example:
# LoadModule foo module modules/mod foo.so
Include conf.modules.d/*.conf
# If you wish httpd to run as a different user or group, you must run
# httpd as root initially and it will switch.
# User/Group: The name (or #number) of the user/group to run httpd as.
# It is usually good practice to create a dedicated user and group for
# running httpd, as with most system services.
```

```
User apache
Group apache
# 'Main' server configuration
# The directives in this section set up the values used by the 'main'
# server, which responds to any requests that aren't handled by a
# <VirtualHost> definition. These values also provide defaults for
# any <VirtualHost> containers you may define later in the file.
# All of these directives may appear inside <VirtualHost> containers,
# in which case these default settings will be overridden for the
# virtual host being defined.
# ServerAdmin: Your address, where problems with the server should be
# e-mailed. This address appears on some server-generated pages, such
# as error documents. e.g. admin@your-domain.com
ServerAdmin root@localhost
# ServerName gives the name and port that the server uses to identify
itself.
# This can often be determined automatically, but we recommend you
specify
# it explicitly to prevent problems during startup.
# If your host doesn't have a registered DNS name, enter its IP address
here.
```

```
DocumentRoot "/var/www/html"

#
# Relax access to content within /var/www.
#
<Directory "/var/www">
    AllowOverride None
```

```
# Allow open access:
    Require all granted
</Directory>
# Further relax access to the default document root:
<Directory "/var/www/html">
    # Possible values for the Options directive are "None", "All",
    # or any combination of:
       Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI
MultiViews
    \# Note that "MultiViews" must be named *explicitly* --- "Options
All"
    # doesn't give it to you.
    # The Options directive is both complicated and important. Please
see
    # http://httpd.apache.org/docs/2.4/mod/core.html#options
    # for more information.
    Options Indexes FollowSymLinks
    # AllowOverride controls what directives may be placed in .htaccess
files.
    # It can be "All", "None", or any combination of the keywords:
    # Options FileInfo AuthConfig Limit
    AllowOverride None
    # Required ip 192.168
    # Controls who can get stuff from this server.
```

```
Require all granted
    <RequireAll>
        Require all granted
    </RequireAll>
</Directory>
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
<IfModule dir module>
    DirectoryIndex index.html
</IfModule>
# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
<Files ".ht*">
   Require all denied
</Files>
# ErrorLog: The location of the error log file.
# If you do not specify an ErrorLog directive within a <VirtualHost>
# container, error messages relating to that virtual host will be
# logged here. If you *do* define an error logfile for a <VirtualHost>
# container, that host's errors will be logged there and not here.
ErrorLog "logs/error_log"
```

```
# LogLevel: Control the number of messages logged to the error log.
# Possible values include: debug, info, notice, warn, error, crit,
# alert, emerg.
LogLevel warn
<IfModule log config module>
   # The following directives define some format nicknames for use
with
   # a CustomLog directive (see below).
   Agent}i\"" combined
   LogFormat "%h %l %u %t \"%r\" %>s %b" common
   <IfModule logio module>
     # You need to enable mod logio.c to use %I and %O
     Agent}i\" %I %O" combinedio
   </IfModule>
   # The location and format of the access logfile (Common Logfile
Format).
   # If you do not define any access logfiles within a <VirtualHost>
   # container, they will be logged here. Contrariwise, if you *do*
   # define per-<VirtualHost> access logfiles, transactions will be
   # logged therein and *not* in this file.
   #CustomLog "logs/access log" common
```

```
# If you prefer a logfile with access, agent, and referer
information
    # (Combined Logfile Format) you can use the following directive.
    CustomLog "logs/access log" combined
</IfModule>
<IfModule alias module>
    # Redirect: Allows you to tell clients about documents that used to
    # exist in your server's namespace, but do not anymore. The client
    # will make a new request for the document at its new location.
    # Example:
    # Redirect permanent /foo http://www.example.com/bar
    # Alias: Maps web paths into filesystem paths and is used to
    # access content that does not live under the DocumentRoot.
    # Example:
    # Alias /webpath /full/filesystem/path
    # If you include a trailing / on /webpath then the server will
    # require it to be present in the URL. You will also likely
    # need to provide a <Directory> section to allow access to
    # the filesystem path.
    # ScriptAlias: This controls which directories contain server
scripts.
    # ScriptAliases are essentially the same as Aliases, except that
    # documents in the target directory are treated as applications and
    \# run by the server when requested rather than as documents sent to
```

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```
# client. The same rules about trailing "/" apply to ScriptAlias
    # directives as to Alias.
   ScriptAlias /cgi-bin/ "/var/www/cgi-bin/"
</IfModule>
# "/var/www/cgi-bin" should be changed to whatever your ScriptAliased
# CGI directory exists, if you have that configured.
<Directory "/var/www/cgi-bin">
   AllowOverride None
   Options None
   Require all granted
</Directory>
<IfModule mime module>
    # TypesConfig points to the file containing the list of mappings
from
    # filename extension to MIME-type.
    TypesConfig /etc/mime.types
    # AddType allows you to add to or override the MIME configuration
    # file specified in TypesConfig for specific file types.
    #AddType application/x-gzip .tgz
    # AddEncoding allows you to have certain browsers uncompress
```

```
# information on the fly. Note: Not all browsers support this.
    #AddEncoding x-compress .Z
    #AddEncoding x-gzip .gz .tgz
    # If the AddEncoding directives above are commented-out, then you
    # probably should define those extensions to indicate media types:
   AddType application/x-compress .Z
   AddType application/x-gzip .gz .tgz
    # AddHandler allows you to map certain file extensions to
"handlers":
    # actions unrelated to filetype. These can be either built into the
server
    # or added with the Action directive (see below)
    # To use CGI scripts outside of ScriptAliased directories:
    # (You will also need to add "ExecCGI" to the "Options" directive.)
    #AddHandler cgi-script .cgi
    # For type maps (negotiated resources):
    #AddHandler type-map var
    # Filters allow you to process content before it is sent to the
client.
    # To parse .shtml files for server-side includes (SSI):
    # (You will also need to add "Includes" to the "Options"
directive.)
```

```
AddType text/html .shtml
    AddOutputFilter INCLUDES .shtml
</IfModule>
# Specify a default charset for all content served; this enables
# interpretation of all content as UTF-8 by default. To use the
# default browser choice (ISO-8859-1), or to allow the META tags
# in HTML content to override this choice, comment out this
# directive:
AddDefaultCharset UTF-8
<IfModule mime magic module>
    # The mod mime magic module allows the server to use various hints
    # contents of the file itself to determine its type. The
MIMEMagicFile
    # directive tells the module where the hint definitions are
located.
    MIMEMagicFile conf/magic
</IfModule>
# Customizable error responses come in three flavors:
# 1) plain text 2) local redirects 3) external redirects
# Some examples:
#ErrorDocument 500 "The server made a boo boo."
#ErrorDocument 404 /missing.html
#ErrorDocument 404 "/cgi-bin/missing handler.pl"
```

```
#ErrorDocument 402 http://www.example.com/subscription info.html
# EnableMMAP and EnableSendfile: On systems that support it,
# memory-mapping or the sendfile syscall may be used to deliver
# files. This usually improves server performance, but must
# be turned off when serving from networked-mounted
# filesystems or if support for these functions is otherwise
# broken on your system.
# Defaults if commented: EnableMMAP On, EnableSendfile Off
#EnableMMAP off
EnableSendfile on
# Supplemental configuration
# Load config files in the "/etc/httpd/conf.d" directory, if any.
IncludeOptional conf.d/*.conf
#<Location />
   <LimitExcept GET POST>
# order deny,allow
# deny from all
    </LimitExcept>
#</location>
LoadModule rewrite module modules/mod rewrite.so
RewriteEngine On
RewriteCond %{REQUEST METHOD} ^(OPTIONS|TRACE)
<mark>RewriteRule .* - [F</mark>]
```

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