

Howto Setup SPS ForwardedForFilter

1.1 Background

Many applications want the header X-Forwarded-For: propagated or set by a proxy. Most have it built in but currently for SPS we need to code a SPSfilter to do it - although that will probably change in the future.

1.2 Code in ForwardedForFilter.java.

The sample code is provided in a separate file.

Parameters are :

```
debugTraceLevel = 1|2|3
XforwardForHeaderName = "X-Forwarded-For"
mode = Append | Overwrite
enabled = True | False
```

The PreFilter for each request

It looks up the ForwardedFor header, (default name "X-Forwarded-For") and the either over Parameters for debugging and which headers to change are picked up from entries in the server.conf file eg:

1.3 Changes Server.conf

Server.conf is changed to define the filter as "ForwardedForFilter". The parameters are not important for our usage, but come as part of the original sample.

See sample in sps-site-specific subdirectory.

Server.conf

```
filter.ForwardedForFilter.class=ForwardedForFilter
filter.ForwardedForFilter.init-param.debugTraceLevel="2"
#filter.ForwardedForFilter.init-param.XForwardForHeaderName="X-Forwarded-For" # defaults to
this.
```

```
#filter.ForwardedForFilter.init-param.mode="Append" # (Append|OverWrite) defaults to Append.
#filter.ForwardedForFilter.init-param.enabled="True" # (True|False) defaults to True.
filter.filter1.init-param.mapHeader_COOKIE="Cookie"
```

1.4 Changed for proxyrules.xml

Update proxyrules.xml to use filter as "filter1" as part of the forward expression where we want it to be applied. Since it is with each forward, you can fairly easily restrict which rules will have the filter applied.

See sample in sps-site-specific subdirectory.

proxyrules.xml

Change default forward :

```
<nete:forward>http://www.ca.com$0</nete:forward>
To:
<nete:forward filter="ForwardedForFilter">http://odoma04-dev.ca.com$0</nete:forward>
```

1.5 Adding SPSPForwardForFilter.jar file

The SPSPForwardForFilter.jar file (compiled version provided in the filters subdirectory) . It needs to be copied into one of the CLASSPATH's used for the proxy-engine. Eg:

```
set SPSPATH=C:\CA\secure-proxy
copy/y SPSPForwardForFilter.jar %SPSPATH%\Tomcat\lib\
```

1.6 Compiling Source Code

Source code is in filter/src directory. There is also a sample build script, build.bat and build.sh file. You will need to edit the script to point to the correct locations of your SPS and Java install.

It is easiest to do the build on either the SPS machine itself, or a machine that has the same version of SPS installed.

The build script creates the SPSPForwardForFilter.jar file.

Cheers - Mark O'Donohue - [mark.odonohue@gmail.com.]