

VirtualHostingHostMatcher

This instruction will help you configuring Cocoon along with Tomcat for virtual hosting. We are going to serve several virtual hosts each from its own directory.

Host	Directory
http://customerA/	/opt/virtHosts/customerA/
http://customerB/	/opt/virtHosts/customerB/
http://customerC/	/opt/virtHosts/customerC/
http://www.foo.tld/	/opt/virtHosts/www.foo.tld/

Prepare the environment

You have installed and configured Cocoon and Tomcat according to [CocoonEasyInstallation](#).

```
/opt/jakarta-tomcat-5.x.xx  
/opt/cocoon/
```

Now create the following directories

```
/opt/virtHosts/customerA/  
/opt/virtHosts/customerB/  
/opt/virtHosts/customerC/  
/opt/virtHosts/www.foo.tld/
```

Make sure your Nameserver knows about all the hosts. If you are on a local machine without nameserver you can add them to /etc/hosts file. Put some sample which you know that is working into each customerX directory.

Define HostMatcher

The default sitemap already has many [Matchers](#) defined but there are some more that we could add.

Backup your `/opt/cocoon/ROOT/sitemap.xmap` and open it with your favourite editor. Search for the section

```
<map:components>  
  ...other components...  
  <map:matchers default="wildcard">  
    ...other matchers...  
  </map:matchers>  
  ...other components...  
</map:components>
```

and add the line

```
  <map:matcher logger="sitemap.matcher.host" name="host" src="org.apache.cocoon.matching.WildcardHostMatcher"  
/>
```

so that you now have

```
<map:components>  
  ...other components...  
  <map:matchers default="wildcard">  
    ...other matchers...  
    <map:matcher logger="sitemap.matcher.host" name="host" src="org.apache.cocoon.matching.WildcardHostMatcher"  
/>  
    ...other matchers...  
  </map:matchers>  
  ...other components...  
</map:components>
```

Now as our sitemap.xmap knows about [WildcardHostMatcher](#) we can use it in our pipeline.

Use HostMatcher (in the pipeline)

Search for the section <map:pipelines> and find the <map:pipeline> which is commented "main pipeline".

```
<map:pipelines>
  ...
  <!-- main pipeline -->
  <map:pipeline>
```

and directly below, and still above the welcome pages, add the lines:

```
<!-- Insertion for matching http://cocoon:[portnumber]/ -->
<map:match pattern="cocoon:***" type="host">
```

Further down in the pipeline, just before beginning of comment about error handling <map:handle-errors> put the following lines of which the first is the closing tag of our previous insertion from above.

```
</map:match>
<!--+
  | Mount everything else by calling the sitemap.xmap file located
  | in the requested folder.
  | First match, pattern="*:***" is for http://virthost:8080/uri
  | Second one, pattern="*" is for calling at default port.
  +-->
<map:match pattern="*:***" type="host">
  <map:mount check-reload="yes" src="/opt/virtHosts/{1}/" uri-prefix="" />
</map:match>
<map:match pattern="*" type="host">
  <map:mount check-reload="yes" src="/opt/virtHosts/{1}/" uri-prefix="" />
</map:match>
```

Save your changes to sitemap.xmap.

<http://cocoon:8080/> or <http://cocoon/>

Be aware that we added one new matcher matching *http://cocoon:\[portnumber\]/* nested with all other matches from the original pipeline. Please change it from **pattern="cocoon:***"** to **pattern="cocoon"** if you've connected Tomcat to Apache or if you configured Tomcat to listen on port 80. Restart Tomcat and start your browser with http://customerA/* or another.

Conclusion

Setting up a new virtual host requires just only creating in /opt/virtHosts/ a directory with its name being the same as the host name.

Feel free to put any comments or corrections or to contact the author for questions under volkmar@pogatzki.net

Related stuff

Of course, Cocoon has a [RegexpHostMatcher](#) too and also a [HostSelector](#) which already got its own wikipage [HostSelector](#).

If you prefer having Apache in front to match the (virtual) hosts, please have a look at Stavros Kounis' [VirtualHost](#).