

Tomcat virtual hosts



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To modify Tomcat in order to set up Virtual Hosts for webapps to respond to specific DNS names. For example, you can change:

www.example.com/magnoliaPublic
www.example.com/magnoliaAuthor

to

www.example.com (public)
author.example.com (author)

Here are the steps:

1. Shutdown Tomcat

Back everything up just in case there is total meltdown and you need to revert to pre-hosts state.

2. Open `$(catalina.home)/conf/server.xml`. Change:

```
<Engine name="Catalina" defaultHost="localhost" debug="0">
```

to

```
<Engine name="Catalina" defaultHost="www.example.com" debug="0">
```

3. Change this:

```
<Host name="localhost" debug="0" appBase="webapps"  
  unpackWARs="true" autoDeploy="true"  
  xmlValidation="false" xmlNamespaceAware="false">
```

to

```
<Host name="www.example.com" debug="0" appBase="public"
  unpackWARs="true" autoDeploy="true"
  xmlValidation="false" xmlNamespaceAware="false">
```

4. Change the end of the file from:

```
  <Logger className="org.apache.catalina.logger.FileLogger"
    directory="logs" prefix="localhost_log." suffix=".txt"
    timestamp="true"/>
</Host>
</Engine>
</Service>
```

To:

```
  <Logger className="org.apache.catalina.logger.FileLogger"
    directory="logs" prefix="public_log." suffix=".txt"
    timestamp="true"/>
</Host>
<Host name="author.example.com" debug="0" appBase="author"
  unpackWARs="true" autoDeploy="true"
  xmlValidation="false" xmlNamespaceAware="false">
  <Logger className="org.apache.catalina.logger.FileLogger"
    directory="logs" prefix="author_log." suffix=".txt"
    timestamp="true"/>
</Host>
</Engine>
</Service>
```

5. In the file system create the directories `${catalina.home}/public` and `${catalina.home}/author`

6. Rename webapps

Move `${catalina.home}/webapps/magnoliaAuthor` to `${catalina.home}/author/ROOT`

and `${catalina.home}/webapps/magnoliaPublic` to `${catalina.home}/public/ROOT`

7. Fix subscribers step 1

In the file system create the directories

`${catalina.home}/conf/Catalina/www.example.com`

`${catalina.home}/conf/Catalina/author.example.com`

In the `www` folder, create the file `ROOT.xml` with this line:

```
<Context path="" docBase="${catalina.home}/public/ROOT" />
```

In the `author` folder, create the file `ROOT.xml` with this line:

```
<Context path="" docBase="${catalina.home}/author/ROOT" />
```

(See [Running Magnolia in the root of a host](#))

8. Start Tomcat.

Make sure www.example.com and author.example.com load in a web browser.

9. Fix subscribers step 2

In Admin Central for the author instance (open author.example.com in a web browser), change `Config/SubscriberConfig/www.example.com/address` to `www.example.com` (old value was `www.example.com:/magnoliaPublic`) and the `senderURL` to <http://author.example.com>

Test activating a page from author to public.

(See [Running Magnolia in the root of a host](#))

10. Fix all templates with hardcoded context/webapp paths.

Example:

```
href="/magnoliaPublic/contact"
```

must be changed to:

```
href="{pageContext.request.contextPath}/contact"
```

You may also want to search your template scriptlets and make sure they use `request.getContextPath()` instead of hard coded context paths.

11. Fix all templates that link to the default uri.

Example:

```
href="{pageContext.request.contextPath}"
```

must be changed to:

```
href="{pageContext.request.contextPath}/"
```

Why? Because when you change `magnoliaPublic` to `ROOT`, you are eliminating the webapp name. So:

```
{pageContext.request.contextPath} = ""
```

Which means:

```
href="{pageContext.request.contextPath}"
```

turns into

```
href="" (BAD!)
```

What you really want is:

```
href="{pageContext.request.contextPath}/"
```

which turns into

```
href="/" (Correct!)
```

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