

# Linking two Virtuoso instances to one Apache server

Egon Willighagen 

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## Keywords

Virtuoso, Apache

## Abstract

Virtuoso comes with its own web front end, but I did not want to make that public. Additionally, I actually have two instances running, one for the GNU FDL licensed NMRShiftDB data, and one for the CC0 ChemPedia and Solubility data sets.

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## chem-bla-ics

[Virtuoso](#) comes with its own web front end, but I did not want to make that public. Additionally, I actually have two instances running, one for the [GNU FDL](#) licensed [NMRShiftDB](#) data, and one for the [CC0 ChemPedia](#) and [Solubility](#) data sets.

So, I used [Apache's proxy module](#) linking to two Virtuoso instances. These two are set up by just duplicating a data based folder and to have it use two *virtuoso.ini* config files. Modify one of two config files to have them run on a different port in the Parameters section, for example 1198 and 1199:

```
[Parameters]
ServerPort          = 1199
```

And assign a different server ports in the HTTPServer section, such as 2290 and 2291:

```
[HTTPServer]
ServerPort          = 2291
```

Then modify the */etc/apache2/mods-enabled/proxy.conf* (or whatever equivalent on your system) to have two sections creating two URL rewrites proxying the request to the virtuoso server:

```
<Proxy /nmrshiftdb/sparql>
  RewriteEngine On
  Allow from all
  ProxyPass          http://localhost:2290/sparql
  ProxyPassReverse  http://localhost:2290/sparql
</Proxy>
```

```
<Proxy /cc0/sparql>
  RewriteEngine On
  Allow from all
  ProxyPass          http://localhost:2291/sparql
  ProxyPassReverse  http://localhost:2291/sparql
</Proxy>
```