

Running multiple instances of the SOA Gateway

This section outlines the steps required to run multiple instances of the SOA Gateway, either of the same, or different versions, on a single operating system image.

- Multiple instances of the SOA Gateway on Linux
 - Multiple instances of the SOA Gateway on z/OS
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Multiple instances of the SOA Gateway on z/OS

The simplest way for setting up multiple SOA Gateway servers on z/OS is to execute the Deployment Wizard once for every server, specifying distinct HLQs (High Level Qualifiers) for the datasets, TCP/IP port numbers etc., then execute the setup jobs.

This will also create multiple copies of the SOA Gateway load library, which is not required, so the start job / procedure for the various instances of the server can be modified to all use the same loadlib in its STEPLIB.

Multiple instances of the SOA Gateway on Linux

This step-by-step guide assumes good knowledge of the Apache webserver on a Linux platform.

The following steps outline how to copy the existing SOA Gateway installation, and then bring up both the existing and new installations using the same apache webserver.

- If running, stop the soa gateway. See here how to do this.
- Make a duplicate of the current installations files and directories. For example, if installed in `/home/bre/soaGateway`, then

```
mkdir /home/bre/soaGatewayNew
```

```
cp -R /home/bre/soaGateway/* /home/bre/soaGatewayNew
```

- In the new installation, change the Apache Listen directive, specifying a yet unused port number. This directive can be found in the `httpd.conf` file in the `apache2/conf` directory.
- Again, edit the new `httpd.conf` file and change the Include directive on the last line to pick up the new installation.
- Edit new `adabas_soa_gw.conf` file in the new installation. Modify required directives to pick up the new files and directories in the new installation.

- Add a fully qualified `PidFile` directive to the new `httpd.conf` (if one is not already present). This pid file should point into the new installation.

For example

```
<IfModule !mpm_netware.c>  
PidFile /home/bre/soaGatewayNew/apache2/logs/httpd.pid  
</IfModule>
```

- Modify the new `xmiddleEnv.sh` file , updating its contents to use the new installation.
- Edit the new `envvars` file, updating its contents to use the new installation.
- In the current installation (*not* the one you have just created) copy the `apachectl` control script. For example

```
cp /home/bre/soaGateway/apache2/bin/apachectl /home/bre/soaGateway/apache2/bin/apachectl_new
```

Modify the new file to pick up the new `httpd.conf` and new `envvars` file.

Note:

You do not need to change the path to the `httpd` binary.

Note:

Therefore you may remove the new Apache libraries and binaries. For example, these are located under `/home/bre/soaGateway/apache2/lib` and `/home/bre/soaGateway/apache2/bin/`. *Do not remove the `apache2/bin/envvars` file.*

- Use the 2 `apachectl`s scripts to start your SOA Gateways.
- Verify that the SOA Gateway start-up messages (found in the Apache logs) refer to the new SOA Gateway configuration file.