

Service Layer Configuration

To ensure that **COBI.time** runs stable and performs efficiently, the **Service Layer** must be properly configured.

Unfortunately, the default Service Layer configuration delivered by SAP is insufficient and may cause performance issues.

Configuration

The configuration must be changed directly on the **HANA server** with root privileges.

First, stop the Service Layer using the following command: `systemctl stop b1s`

Then navigate to the directory: `/usr/sap/SAPBusinessOne/ServiceLayer/conf/`

Remove all existing Node Member configuration files, except for a single one: `httpd-b1s-lb-member-50001.conf`

```
l 56
r-xr-x 2 biservice0 biservice0 301 Jan  7 20:39 .
r-xr-x 16 biservice0 biservice0 264 Jan  7 12:16 ..
r-xr-x 1 biservice0 biservice0 172 Apr 19 2023 B1_ServiceLayer.xml
----- 1 biservice0 biservice0  45 Sep 25 20:23 STKey.key
r-xr-x 1 biservice0 biservice0 477 Sep 25 20:23 b1s-sld.xml
r-xr-x 1 biservice0 biservice0 1074 Sep 25 20:24 b1s.conf
r-xr-x 1 biservice0 biservice0 4538 Jan  7 14:05 b1s_sqltable.conf
r-xr-x 1 biservice0 biservice0 316 Apr 19 2023 b1s_sqltable.template.conf
r-xr-x 1 biservice0 biservice0 718 Apr 19 2023 demo.schoma
r--r-- 1 biservice0 biservice0  910 Sep 25 20:55 httpd-b1s-lb-member-50001.conf
r--r-- 1 biservice0 biservice0 1513 Sep 25 20:47 httpd-b1s-lb-member-common.conf
r--r-- 1 biservice0 biservice0 5110 Sep 25 20:56 httpd-b1s-lb.conf
----- 1 biservice0 biservice0 1485 Sep 25 20:23 server.crt
----- 1 biservice0 biservice0 1845 Sep 25 20:23 server.key
```

Edit the file `httpd-b1s-lb.conf` and remove all additional Balancer Members from the proxy balancer so that only **one Node** remains in the balancer:

```
<Proxy balancer://myCluster>
  BalancerMember http://localhost:50001/b1s route=node1
  ProxySet stickysession=ROUTEID
</Proxy>
```

Additionally, check if there are any **Rewrite Rules** defined under the **RewriteEngine** section. These rules may still point to old nodes. A typical entry may look like this:

```
RewriteEngine on
RewriteRule "^/ping/node$"
"/b1s/ping/node?ROUTEID=.node1&target=localhost:50001" [PT]
RewriteRule "^/ping/node/1$"
"/b1s/ping/node?ROUTEID=.node1&target=localhost:50001" [PT]
RewriteRule "^/ping/node/2$"
"/b1s/ping/node?ROUTEID=.node2&target=localhost:50002" [PT]
RewriteRule "^/ping/node/3$"
"/b1s/ping/node?ROUTEID=.node3&target=localhost:50003" [PT]
RewriteRule "^/ping/node/4$"
"/b1s/ping/node?ROUTEID=.node4&target=localhost:50004" [PT]
```

```
RewriteRule "^/ping/node/(.*)$" "/bls/ping/load-balancer?ROUTEID=.node$1" [PT]
```

Replace this entire block with the following configuration:

```
RewriteEngine on
RewriteRule "^/ping/node$" "/bls/ping/node?ROUTEID=.node1&nodecount=1" [PT]
RewriteRule "^/ping/node/$" "/bls/ping/node?ROUTEID=.node1&nodecount=1" [PT]
RewriteRule "^/ping/node$(.*)$" "/bls/ping/node?ROUTEID=.node$1&nodecount=1" [PT]
```

Next, open the file `httpd-bls-lb-member-common.conf` and adjust the **IfModule mpm_prefork_module** section as follows:

```
<IfModule mpm_prefork_module>
    ServerLimit          10
    StartServers         10
    MaxSpareServers     10
    MinSpareServers      9
    MaxConnectionsPerChild 20
    MaxRequestsWorkers  48
</IfModule>
```

You can now restart the Service Layer using: `systemctl start bls`

In the **Service Layer Control Center** (`https://sap-server-ip:40000/ServiceLayerController`), only **one Node Member** should now be visible.

[Example Service Layer configuration files](#) (Do **not** copy or import directly to your HANA server):

`example_service_layer_config_files.zip`

From: <https://docs.cobisoft.de/wiki/> - **COBISOFT Documentation**

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