

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 b1service0 b1service0 301 Jan 7 20:39 .
r-xr-x 16 b1service0 b1service0 264 Jan 7 12:16 ..
r-xr-x 1 b1service0 b1service0 172 Apr 19 2023 b1_ServiceLayer.xml
----- 1 b1service0 b1service0 45 Sep 25 20:23 STKey.key
r-xr-x 1 b1service0 b1service0 477 Sep 25 20:23 b1s-sld.xml
r-xr-x 1 b1service0 b1service0 1074 Sep 25 20:24 b1s.conf
r-xr-x 1 b1service0 b1service0 4538 Jan 7 14:05 b1s_sqltable.conf
r-xr-x 1 b1service0 b1service0 316 Apr 19 2023 b1s_sqltable.template.conf
r-xr-x 1 b1service0 b1service0 718 Apr 19 2023 demo.schoma
r--r-- 1 b1service0 b1service0 910 Sep 25 20:55 httpd-b1s-lb-member-50001.conf
r--r-- 1 b1service0 b1service0 1513 Sep 25 20:47 httpd-b1s-lb-member-common.conf
r--r-- 1 b1service0 b1service0 5110 Sep 25 20:56 httpd-b1s-lb.conf
----- 1 b1service0 b1service0 1485 Sep 25 20:23 server.crt
----- 1 b1service0 b1service0 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](#)

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Last update: **2025/10/06 10:57**

