

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 bis`

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

Remove all existing Node Member configuration files, except for a single one: `httpd-bis-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 Bi_ServiceLayer.xml
----- 1 biservice0 biservice0 45 Sep 25 20:23 STKey.key
r-xr-x 1 biservice0 biservice0 477 Sep 25 20:23 bis-sld.xml
r-xr-x 1 biservice0 biservice0 1074 Sep 25 20:24 bis.conf
r-xr-x 1 biservice0 biservice0 4538 Jan 7 14:05 bis_sqltable.conf
r-xr-x 1 biservice0 biservice0 316 Apr 19 2023 bis_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-bis-lb-member-50001.conf
r--r-- 1 biservice0 biservice0 1513 Sep 25 20:47 httpd-bis-lb-member-common.conf
r--r-- 1 biservice0 biservice0 5110 Sep 25 20:56 httpd-bis-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-bis-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/bis 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$"
"/bis/ping/node?ROUTEID=.node1&target=localhost:50001" [PT]
RewriteRule "^/ping/node/1$"
"/bis/ping/node?ROUTEID=.node1&target=localhost:50001" [PT]
RewriteRule "^/ping/node/2$"
"/bis/ping/node?ROUTEID=.node2&target=localhost:50002" [PT]
RewriteRule "^/ping/node/3$"
"/bis/ping/node?ROUTEID=.node3&target=localhost:50003" [PT]
RewriteRule "^/ping/node/4$"
"/bis/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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