

Service Layer Konfiguration

Damit COBI.time stabil und performant läuft, muss das Service Layer ordentlich konfiguriert sein. Leider ist die standardmäßig ausgelieferte Service Layer Konfiguration von SAP mangelhaft.

Konfiguration

Die Konfiguration muss als root direkt auf dem HANA Server geändert werden. Zuerst sollte das Service Layer mit dem Befehl `systemctl stop bis` gestoppt werden.

Danach in das Verzeichnis `/usr/sap/SAPBusinessOne/ServiceLayer/conf/` navigieren und sämtliche Node Member Konfiguration entfernen bis auf eine einzelne Node Konfiguration `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.schema
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

```

Die Datei `httpd-bis-lb.conf` editieren und sämtliche Balancer Member aus dem Proxy balancer entfernen, sodass nur noch eine Node im Proxy balancer angegeben ist:

```

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

```

Außerdem prüfen, ob es unter der RewriteEngine noch Rewrite Rules eventuell gibt. Die Rewrite Rules könnten auf alte Nodes zeigen. Der Log Eintrag sieht vermutlich so aus:

```

RewriteEngine on
RewriteRule "^/ping/node0$"
"/bis/ping/node?ROUTEID=.node0&target=localhost:50001" [PT]
RewriteRule "^/ping/node1$"
"/bis/ping/node?ROUTEID=.node1&target=localhost:50001" [PT]
RewriteRule "^/ping/node2$"
"/bis/ping/node?ROUTEID=.node2&target=localhost:50002" [PT]
RewriteRule "^/ping/node3$"
"/bis/ping/node?ROUTEID=.node3&target=localhost:50003" [PT]
RewriteRule "^/ping/node4$"
"/bis/ping/node?ROUTEID=.node4&target=localhost:50004" [PT]
RewriteRule "^/ping/node/(.*)$" "/bis/ping/load-balancer?ROUTEID=.node$1"
[PT]

```

Diesen Block muss man hiermit ersetzen:

```
RewriteEngine on
RewriteRule "^/ping/node$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1"
[PT]
RewriteRule "^/ping/node/(.*)$" "/b1s/ping/load-balancer?ROUTEID=.node1"
[PT]
RewriteRule "^/ping/node2$" "/b1s/ping/node?ROUTEID=.node1" [PT]
```

Danach die Datei `httpd-b1s-lb-member-common.conf` öffnen und den Eintrag **IfModule mpm_prefork_module** wie folgt bearbeiten:

```
<IfModule mpm_prefork_module>
    ServerLimit          10
    StartServers         10
    MaxSpareServers      10
    MaxClients           10
    MaxRequestsPerChild 48
</IfModule>
```

Nun kann das Service Layer wieder gestartet werden mit dem Befehl: `systemctl start b1s`

Im Service Layer Control Center ([`https://sap-server-ip:40000/ServiceLayerController`](https://sap-server-ip:40000/ServiceLayerController)) sollte nun nur noch ein Node Member sichtbar sein.

Beispiel Service Layer Dateien (Nicht einfach kopieren und auf den HANA Server importieren):
[Example Service Layer Config Files.zip](#)

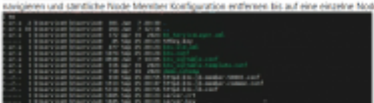
Service Layer Konfiguration

Damit COB:ime stabil und performant läuft, muss das Service Layer ordentlich konfiguriert sein. Leider ist die standardmäßig ausgelieferte Service Layer Konfiguration von SAP mangelhaft.

Konfiguration

Die Konfiguration muss als root direkt auf dem HANA Server geändert werden. Zuerst sollte das Service Layer mit dem Befehl `systemctl stop b1s` gestoppt werden.

Danach in das Verzeichnis `/var/hana/SAPBusinessSuite/ServiceLayer/conf/` kopieren und sämtliche Node Member Konfiguration entfernen bis auf eine einzelne Node Konfiguration (siehe also [sap-sls-ws-0001.conf](#)).



Die Datei `httpd-b1s.conf` editieren und sämtliche Balancer Member aus dem Proxy balancer entfernen, sodass nur noch eine Node in Proxy balancer angegeben ist:

```
Proxy balancer://b1sCluster
BalancerMember http://sap-sls-ws-0001:8000/
ProxySet http://192.168.1.100:8000/
LbMethod
```

Außerdem prüfen, ob es unter der RewriteEngine noch Rewrite Rules eventuell gibt. Die Rewrite Rules können auf alle Nodes zeigen. Der Log Eintrag sieht vermutlich so aus:

```
RewriteEngine on
RewriteRule "/ping/node$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/1$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/2$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/3$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/4$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/5$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/6$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/7$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/8$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/9$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/10$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/11$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/12$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/13$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/14$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/15$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/16$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/17$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/18$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/19$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/20$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/21$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/22$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/23$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/24$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/25$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/26$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/27$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/28$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/29$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/30$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/31$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/32$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/33$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/34$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/35$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/36$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/37$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/38$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/39$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/40$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/41$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/42$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/43$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/44$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/45$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/46$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/47$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/48$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/49$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/50$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/51$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/52$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/53$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/54$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/55$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/56$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/57$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/58$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/59$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/60$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/61$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/62$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/63$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/64$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/65$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/66$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/67$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/68$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/69$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/70$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/71$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/72$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/73$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/74$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/75$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/76$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/77$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/78$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/79$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/80$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/81$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/82$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/83$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/84$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/85$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/86$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/87$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/88$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/89$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/90$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/91$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/92$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/93$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/94$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/95$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/96$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/97$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/98$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/99$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/100$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
```

Diesen Block muss man hiermit ersetzen:

```
RewriteEngine on
RewriteRule "/ping/node$" "/b1s/ping/node?ROUTEID=.node1&bouncecount=1" [PT]
RewriteRule "/ping/node/1$" "/b1s/ping/load-balancer?ROUTEID=.node1" [PT]
RewriteRule "/ping/node/2$" "/b1s/ping/node?ROUTEID=.node1" [PT]
```

Danach die Datei `httpd-b1s-lb-member-common.conf` öffnen und den Eintrag **IfModule mpm_prefork_module** wie folgt bearbeiten:

```
<IfModule mpm_prefork_module>
    ServerLimit          10
    StartServers         10
    MaxSpareServers      10
    MaxClients           10
    MaxRequestsPerChild 48
</IfModule>
```

Nun kann das Service Layer wieder gestartet werden mit dem Befehl:

```
systemctl start b1s
```

Im Service Layer Control Center (<https://sap-server-ip:40000/ServiceLayerController>) sollte nun nur noch ein Node Member sichtbar sein.

Beispiel Service Layer Dateien (Nicht einfach kopieren und auf dem HANA Server kopieren): [Example Service Layer Config Files.zip](#)

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

Permanent link:
https://docs.cobisoft.de/wiki/de/cobi.time/servicelayer_konfiguration?rev=1757511016

Last update: **2025/09/10 15:30**

