HANA Proxy

The HANA Proxy is needed if you want the app to make direct database connections to HANA. For example, if you use HANA on-premises or in a private cloud and you want the app to connect to the Management Database that you created on the HANA server.

The Proxy is a very small Java program with an accompanying systemd service unit to allow for easy installation as a service on a GNU/Linux distribution. Typically it is installed on the same server as HANA.

Download

Download the following TAR file (tarball) onto the HANA server:

hanaproxy-1.2.1.tar

Install

As root, unpack the tarball in `/root`, create a symlink to the unpacked version, and install the systemd service:

```
tar -xf hanaproxy-1.2.0.tar
ln -s hanaproxy-1.2.0 hanaproxy
systemctl enable /root/hanaproxy/hanaproxy.service
```

After this you should be able to start it and check its status to make sure it's running:

```
systemctl start hanaproxy
systemctl status hanaproxy
```

The `status` command should say `active (running)` in green text.

Control / Monitor

You can start/stop/restart the service or check its current status with `systemctl`:

```
systemctl start hanaproxy
systemctl stop hanaproxy
systemctl restart hanaproxy
systemctl status hanaproxy
```

Refer to the documentation of systemd/systemctl for more details.

Update

To update, unpack the newest version, update the symlink, and restart the proxy.

```
tar -xf hanaproxy-X.Y.Z.tar
rm hanaproxy
ln -s hanaproxy-X.Y.Z hanaproxy
systemctl restart hanaproxy
```

Troubleshoot

If you suspect that HANA Proxy may not be working properly even though it is running, you can test a few things.

First of all see if it's reachable from another machine. Let's say the IP Address of the HANA server is `192.168.16.30`. The port used by HANA Proxy is 30075. Using Nmap, we can try:

```
nmap 192.168.16.30 -p 30075
```

On MS Windows you could also use `Test-NetConnection` aka `tnc` instead of Nmap:

```
tnc 192.168.16.30 -Port 30075
```

If the port doesn't seem open, a firewall could be blocking the connection.

Once you've made sure that the port itself is reachable, you can test if HANA Proxy can execute queries. This can be done with a `netcat` utility. If you have Nmap installed, you should have the `ncat` command which can do this, otherwise if you're on a GNU/Linux distro you should also have a simple `nc` tool that is capable enough.

First copy the following HANA Proxy command into a text file, let's say `hptest.json`, with the correct password in place of “secret”:

```
{ "host": "localhost"
, "port": "30015"
, "user": "SYSTEM"
, "password": "secret"
, "schema": "SBOCOMMON"
, "query": "select * from srgc"
}
```

(The host can be “localhost” when the HANA Proxy is running on the same server as the HANA database. Port 30015 is default for HANA. The SYSTEM user should have permissions to query any database.)

Now you can send the command to HANA Proxy with the following command:

```
ncat 192.168.16.30 30075 < hptest.json
```

The results of the query, or at least an error message, should be returned in JSON format.

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

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