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websocket-client-js * iris-native-api * docker-micro-server

Using the IRIS native API for Node.JS was the opportunity to present a MicroService operating in a Docker container. A demo video is now also available to <u>watch the demo</u> in operation.

Instead of a utility you call directly on your IRIS host you now send a work-packages to the MicroService as would typically do with System Interoperability (aka.ENSEMBLE): of course, you have the option of more than one WebSocket Server. Once the WebSocket Client Service has done its job you get back the result from it.

The advantage over the built-in WebSocket Client is, that all Network, Security, Firewall issues are kept away from the core data server. Not to talk about the experience and quality Node.js has in this arena.

The demo uses wss://echo.websocket.org/ as default EchoServer Next you enter some lines of text. At any point you can add "Lorem Ipsum" text for more content between your own text. Next you sent it to the service and wait for the echo. There is also the option to change your text before sending as Exit the control program or Stop the service.

All this processing runs asynchronously. Instead of waiting for completion, the Listener displays periodically what was received from Echo so far.

To install it you need a

- docker image for IRIS (intersystems/iris-community:2020.2.0.199.0)
- docker image for the WebSocket MicroServer (rcemper/rcc:demoJS)

docker run --name ini1 --init -it --rm \
 -privileged -v \$(pwd):/external \
 rcemper/rcc:demoJS bash /rcc/init.sh

- WSockClientMicroSV.tar.gz from Open Exchange or here to make use of IRIS-Docker-micro-Durability <u>https://github.com/rcemper/IRIS-Docker-micro-Durability</u>
- check directory demo: set protection to rwx (chmod 777) as Docker Image is a nobody at your level

To run it start IRIS first (either -d or -it to observe the behaviour) from directory demo (!)

docker run --name iris1 --init --rm -d \setminus

-p 52773:52773 -p 51773:51773 \
-v \$(pwd):/external \
intersystems/iris-community:2020.2.0.199.0 \
-b /external/pre.copy

next start the MicroServer

```
docker run --name rcc1 --init -it --rm \
rcemper/rcc:demoJS \
/usr/bin/node \
/rcc/nodejs/WSockIris.js \
$(hostname -I)
```

as you started it with -it you see

platform = linux: ubuntu

then the control application in a new Linux terminal

docker exec -it iris1 iris session iris ZSocket

and you see

```
*** Welcome to WebSocket Micoservice demo ***
Known Hosts (*=Exit) [1]:
1 wss://echo.websocket.org/
2
  --- server 2 ----
3
  --- server 3 ----
select (1): ==> wss://echo.websocket.org/
#
Enter text to get echoed from WebSocketClient Service
Terminate with * at first position
or get generated text by %
or append new text with @
1
    hello socket microServer
2
    now you got 2 lines
3
     *
Select action for WebClient Service
New EchoServer (E), Send+Listen(S), New Text(N), Exit(X), Exit+Stop Client(Z) [S]s
***
```

Select action for WebClient Service

and on MicroService

Late warning. always check the version of your image! I just fell into intersystems/iris-community:2020.2.0.204.0

NOTICE: ALL SCRIPTS ARE TESTED FOR LINUX ONLY !

Readme Windows

<u>GitHub</u>

#API #Node.js #ObjectScript #InterSystems IRIS

Source URL: https://community.intersystems.com/post/websocket-client-js-iris-native-api-docker-micro-server