SSH for IRIS container

Why SSH?

If you do not have direct access to the server that runs your IRIS Docker container you still may require access to the container outside "iris session" or "WebTerminal". With an SSH terminal (PuTTY, KITTY,...) you get access inside Docker, and then, depending on your needs you run "iris session iris" or display/manipulate files directly.

Note:
This is not meant to be the default access for the average application user but the emergency backdoor for System Management, Support, and Development.

This project is based on templates for InterSystems ObjectScript Github repository. There a few significant extensions:

- docker-compose.yaml exposes port 22 for SSH
- Dockerfile installs SSH server and prepares Server start. You may observe a significant bunch of updates as the underlying Ubuntu is not very fresh

The rest is pretty default for InterSystems IRIS Community Edition in a docker container.

Prerequisites

Make sure you have git and Docker desktop installed.

Installation

Clone/git pull the repo into any local directory

$ git clone https://github.com/rcemper/SSH-for-IRIS-container.git

Open the terminal in this directory and run:

$ docker-compose build

Run the IRIS container with
$ docker-compose up -d

How to Test it:

If you didn't assign a fixed port to projected container port 22 you may run

$ docker ps

    e37392a1c7c3   ssh-for-iris-container   "/bin/sh -c '/iris-
m..."   2 hours ago   Up 2 hours (unhealthy)
2188/tcp, 54773/tcp,
0.0.0.0:41022->22/tcp, 0.0.0.0:41773->1972/tcp, 0.0.0.0:42773->52773/tcp, 0.0.0.0:497
16->53773/tcp

and see the assigned_port for port 22 in the container **0.0.0.0:41022->22/tcp**, (here it's 41022).
Next, you connect with PuTTY over SSH to server:assigned_port
Log in as **irisowner** + the PW of your choice and you are in your container.

This is similar as with **docker-compose exec iris sh** in a local docker instance.

Example:

```bash
login as: irisowner
irisowner@localhost's password:
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 5.4.72-microsoft-standard-WSL2 x86_64)

* Documentation:  https://help.ubuntu.com
* Management:     https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Last login: Sat Apr 17 11:10:56 2021 from 172.18.0.1
$ 
$ iris view

Instance 'IRIS'   (default)
directory:   /usr/irissys
versionid:  2020.4.0.524.0com
datadir:    /usr/irissys
conf file:   iris.cpf  (SuperServer port = 1972, WebServer = 52773)
status:      running, since Sat Apr 17 09:12:38 2021
state:       ok
product:     InterSystems IRIS

$ iris session iris -U "%SYS"
Node: e37392a1c7c3, Instance: IRIS
%SYS>zpm
zpm:%SYS>list
ssh-for-iris-container 0.0.1
webterminal 4.9.2
zpm 0.2.14
```
zpm:%SYS>q
%SYS>d ^zSSH
This is a placeholder for testing
  if you see it, then the installation was OK
%SYS>h
$

Demo Video is here

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Check the related application on InterSystems Open Exchange

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Source URL: https://community.intersystems.com/post/ssh-iris-container