# **IBM DataPower Gateway**

# Lab - Running IBM DataPower Gateway on containers.

## **Perquisites**

- Linux system with minimum 1 cores.
- Docker installed.

**Step 1** - Logon to the provided system

**Step 2** - Change directory to datapower/local

Run the command:

cd datapower/local

[admin@bastion-gym-lan ~]\$ cd datapower/local [admin@bastion-gym-lan local]\$ █

### **Step 3** - Verify docker is installed and is running.

Run the following commands:

sudo docker version sudo systemctl status docker

Press Ctl C to come out of the status page.

```
[admin@bastion-gym-lan local]$ sudo docker version
Client: Docker Engine - Community
                   24.0.5
 Version:
 API version:
                   1.43
 Go version:
                   qo1.20.6
 Git commit:
                   ced0996
 Built:
                   Fri Jul 21 20:36:32 2023
                   linux/amd64
 OS/Arch:
 Context:
                   default
Server: Docker Engine - Community
 Engine:
 Version:
                   24.0.5
                   1.43 (minimum version 1.12)
 API version:
 Go version:
                   qo1.20.6
                   a61e2b4
 Git commit:
 Built:
                   Fri Jul 21 20:35:32 2023
 OS/Arch:
                   linux/amd64
 Experimental:
                   false
 containerd:
 Version:
                   1.6.22
                   8165feabfdfe38c65b599c4993d227328c231fca
 GitCommit:
 runc:
 Version:
                   1.1.8
 GitCommit:
                   v1.1.8-0-q82f18fe
 docker-init:
 Version:
                   0.19.0
                   de40ad0
 GitCommit:
```

**Step 4** – Review the sample script to run DataPower on containers.

Run the following command:

#### cat startDataPowerBasic.sh

```
[admin@bastion-gym-lan local]$ cat ./startDataPowerBasic.sh
#!/bin/bash
echo
echo "Starting local DataPower instance"
echo
echo "Starting local DataPower instance"
echo
# Start the IBM DataPower container using external volumes
docker run -it --name=demo-datapower --nemory=4g -e DATAPOWER_ACCEPT_LICENSE=true -e DATAPOWER_INTERACTIVE=true -e DATAPOWER_WORKER_THREADS=1 -p
9990:9090 cp.icr.io/cpopen/datapower/datapower-limited:10.5.0.5
```

**Step 5** – Review the sample script to run DataPower on container using an existing configuration.

Run the following commands:

#### cat startDataPower.sh

```
[admin@bastion-gym-lan local]$ cat ./startDataPower.sh
#!/bin/bash

echo
echo "Starting local DataPower instance using the configuration stored in the local directory"
echo
#Switch to the IBM DataPower config directory
cd ../dp-demo
# Start the IBM DataPower container using external volumes
docker run -it --name=demo-datapower --memory=4g -v $PWD/drouter/config:/opt/ibm/datapower/drouter/config -v $PWD/drouter/local:/opt/ibm/datapower/drouter/local -v $PWD/drouter/secure/usrcerts -e DATAPOWER_ACCEPT_LICENSE=true -e DATAPOWER_INTERACTIVE
=true -e DATAPOWER_WORKER_THREADS=1 -p 9090:9000 -p 6443:6443 cp.icr.io/cpopen/datapower/datapower-limited:10.5.0.5
```

**Step 6** – Run the DataPower instance using sample DataPower configuration.

Run the following command:

sudo ./startDataPower.sh

Sample output is listed below for reference.

### **Step 7** – Access DataPower Console.

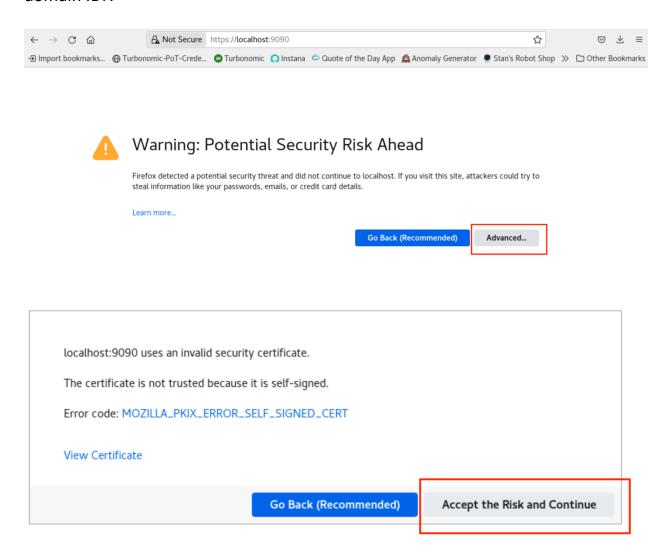
From the browser of the system you are logged-on, access the following link:

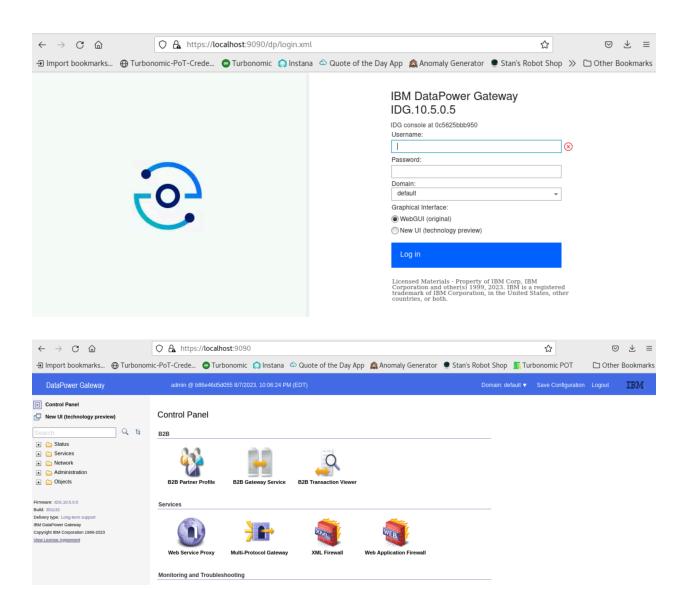
### https://localhost:9090/

Click "Advanced" and "Accept Risks" to continue with the self-signed certificates.

Use the credentials (username: **admin**; password: **admin**) to login to the DataPower admin console.

After logging on to the system, you can explore the artifacts in the application domain IDP.





## **Step 8** – Test the sample configuration.

From the browser access the following links:

## https://localhost:6443/

The following output validates that the static page is correctly returned from the sample the sample DataPower configuration.

