

## Integrating Docker with DataPower

**PavanKumar Meduri**

API Connect Developer

Miracle Software Systems, Inc.

**Date:05-04-2017**

For the Integration of Data Power with Docker we need install Docker Tool Box. After installing the Docker tool box we have mainly icons Appears on the Desktop.

1.Docker Quick Start toolbox(CLI).

2.Oracle virtual Machine.

Then click on Docker Quick Start toolbox then it takes Dynamic IP from our local Machine.

After starting the Docker CLI we need to pull the Data Power image ,this image require minimum of 4GB RAM and @ CPUs.

By default Oracle VM takes only one CPU processor and 4GB of RAM,we need to increase one more Processor,for that we give command in CLI.

```
cmd:$ docker-machine create -d virtualbox --virtualbox-memory "4028"
--virtualbox-cpu-count "2" --virtualbox-disk-size "4028" dpdemo
```

Note:in above command dpdemo is increased cpu name.

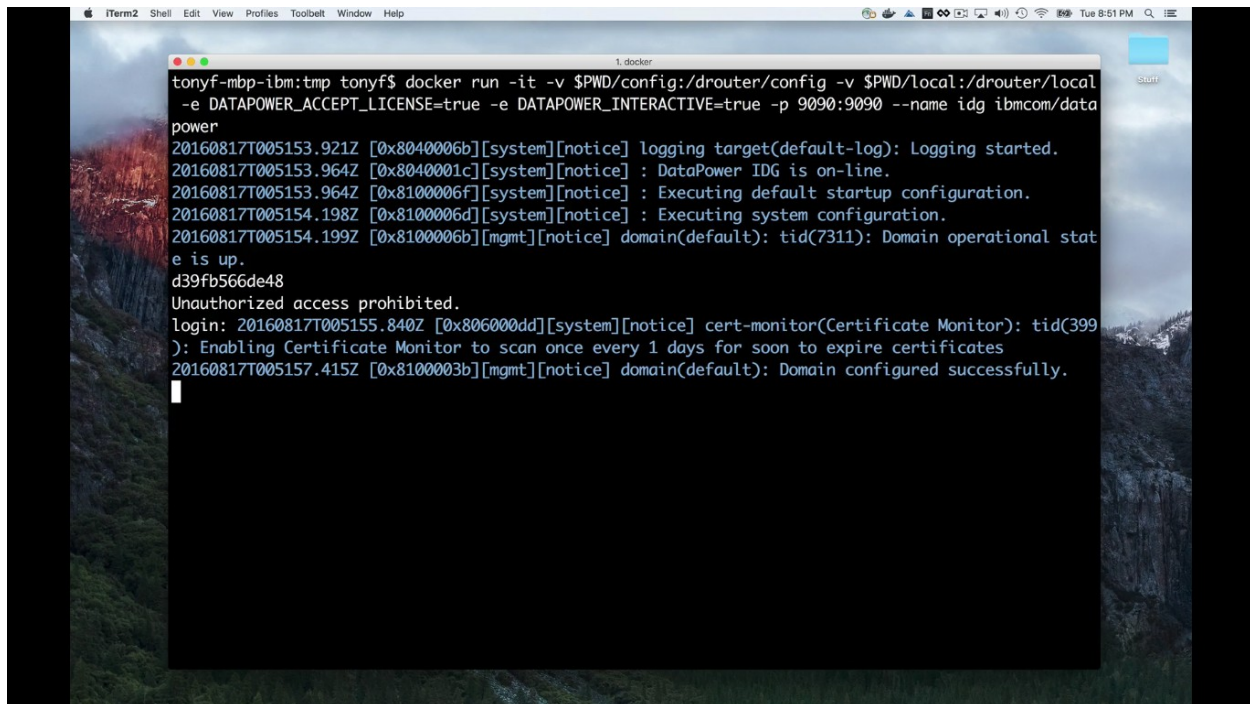
After that we need to create the environment for the docker-machine,for that we use

```
cmd: docker-machine env dpdemo
```

by using the above command we can move to default processor to created processor(dpdemo).

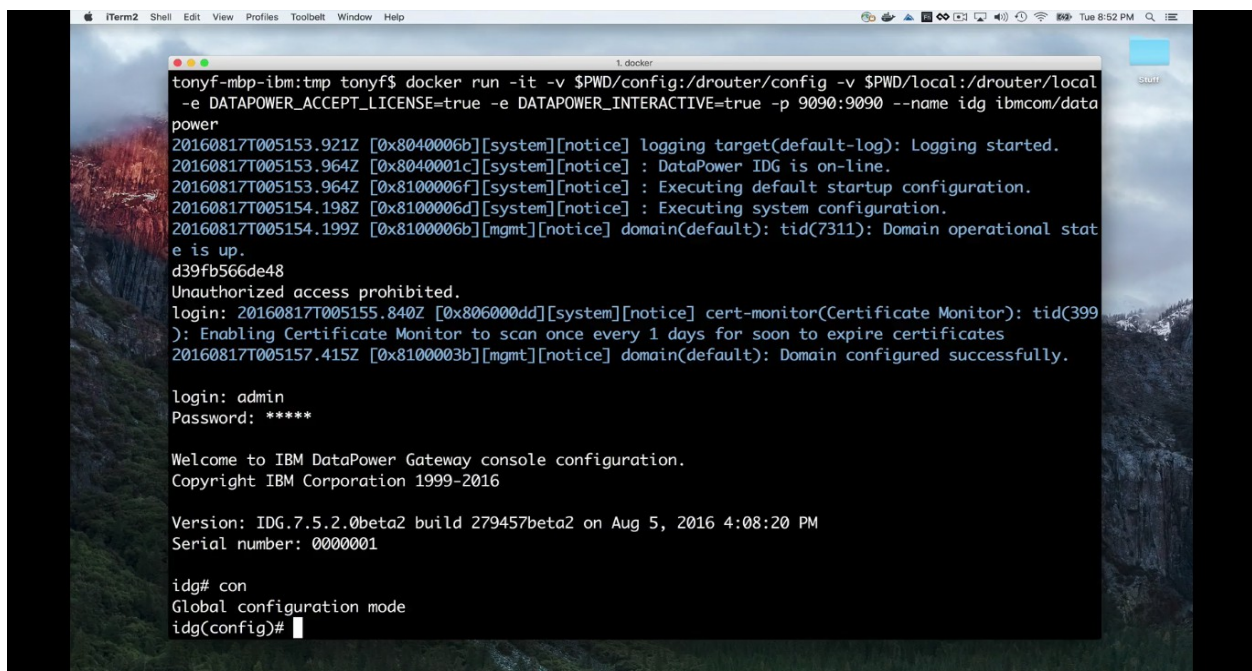
We can pull the datapower image into docker machine by using the command.

```
cmd:docker run -it -v $PWD/config:/drouter/config -v $PWD/local:/drouter/local
-e DATAPOWER_ACCEPT_LICENSE=true -e DATAPOWER_INTERACTIVE=true -p
9090:9090 --name idg ibmcom/datapower
```



```
tonyf-mbp-ibm:tmp tonyf$ docker run -it -v $PWD/config:/drouter/config -v $PWD/local:/drouter/local
-e DATAPOWER_ACCEPT_LICENSE=true -e DATAPOWER_INTERACTIVE=true -p 9090:9090 --name idg ibmcom/data
power
20160817T005153.921Z [0x8040006b][system][notice] logging target(default-log): Logging started.
20160817T005153.964Z [0x8040001c][system][notice] : DataPower IDG is on-line.
20160817T005153.964Z [0x8100006f][system][notice] : Executing default startup configuration.
20160817T005154.198Z [0x8100006d][system][notice] : Executing system configuration.
20160817T005154.199Z [0x8100006b][mgmt][notice] domain(default): tid(7311): Domain operational stat
e is up.
d39fb566de48
Unauthorized access prohibited.
login: 20160817T005155.840Z [0x806000dd][system][notice] cert-monitor(Certificate Monitor): tid(399
): Enabling Certificate Monitor to scan once every 1 days for soon to expire certificates
20160817T005157.415Z [0x8100003b][mgmt][notice] domain(default): Domain configured successfully.
```

After completion of pulling the image we need to give Login username and password, it is used for logging the data power through the Browser.



```
tonyf-mbp-ibm:tmp tonyf$ docker run -it -v $PWD/config:/drouter/config -v $PWD/local:/drouter/local
-e DATAPOWER_ACCEPT_LICENSE=true -e DATAPOWER_INTERACTIVE=true -p 9090:9090 --name idg ibmcom/data
power
20160817T005153.921Z [0x8040006b][system][notice] logging target(default-log): Logging started.
20160817T005153.964Z [0x8040001c][system][notice] : DataPower IDG is on-line.
20160817T005153.964Z [0x8100006f][system][notice] : Executing default startup configuration.
20160817T005154.198Z [0x8100006d][system][notice] : Executing system configuration.
20160817T005154.199Z [0x8100006b][mgmt][notice] domain(default): tid(7311): Domain operational stat
e is up.
d39fb566de48
Unauthorized access prohibited.
login: 20160817T005155.840Z [0x806000dd][system][notice] cert-monitor(Certificate Monitor): tid(399
): Enabling Certificate Monitor to scan once every 1 days for soon to expire certificates
20160817T005157.415Z [0x8100003b][mgmt][notice] domain(default): Domain configured successfully.

login: admin
Password: *****

Welcome to IBM DataPower Gateway console configuration.
Copyright IBM Corporation 1999-2016

Version: IDG.7.5.2.0beta2 build 279457beta2 on Aug 5, 2016 4:08:20 PM
Serial number: 0000001

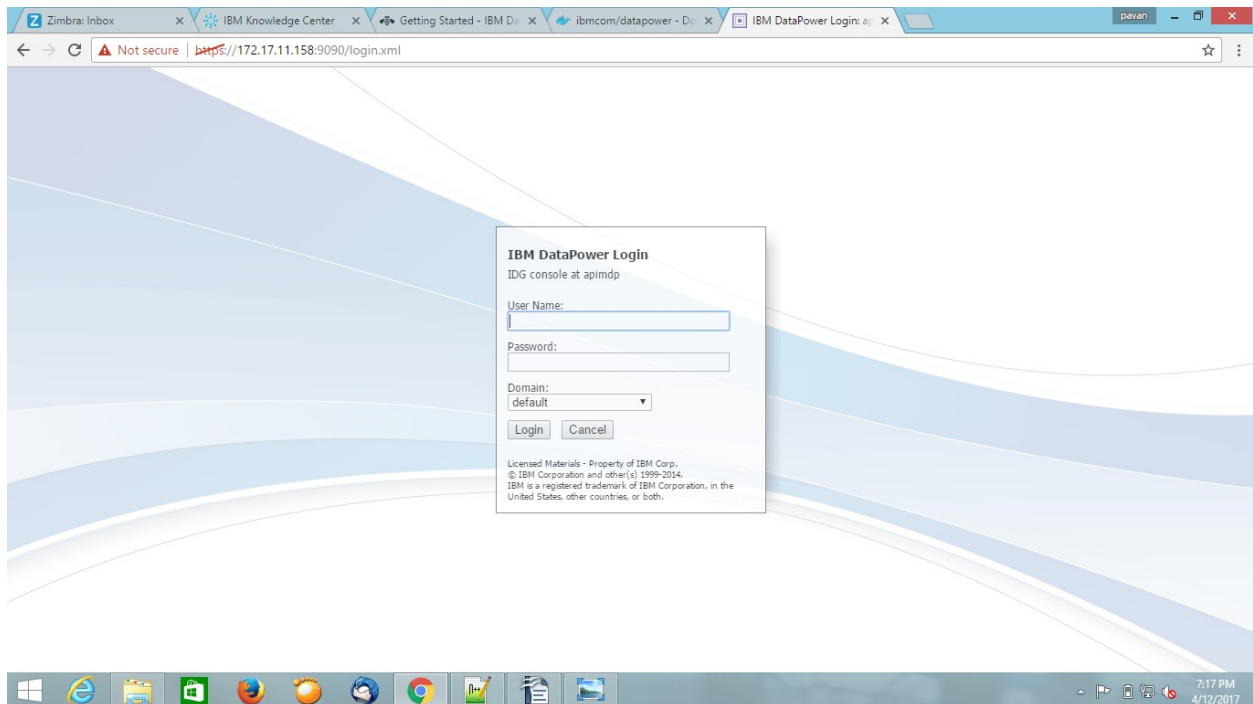
idg# con
Global configuration mode
idg(config)#
```

After completion of these steps we need configure the browser port.for that we use command.

Cmd: Configure; web-mgmt 0 9090 9090;

After that we need to give host and particular port on which it is configured on.

E.g: <https://192.168.1.101:9090>



In the browser we need to give Username and Password,then Datapower Dashbord will be open.