Digital Living Lab

http://digitallivinglab.uow.edu.au/

smart infrastructure facility

UNIVERSITY OF WOLLONGONG AUSTRALIA

OM2M Cheat sheet

1. Launching the OM2M platform:

https://github.com/Eldey/om2mHackathon/blob/master/IPE/x86_64.zip

start.bat for Windows / start.sh for Unix

```
osgi> Configuration loaded!
```

2. Accessing the web interface:

http://localhost:8080/webpage

Login: admin

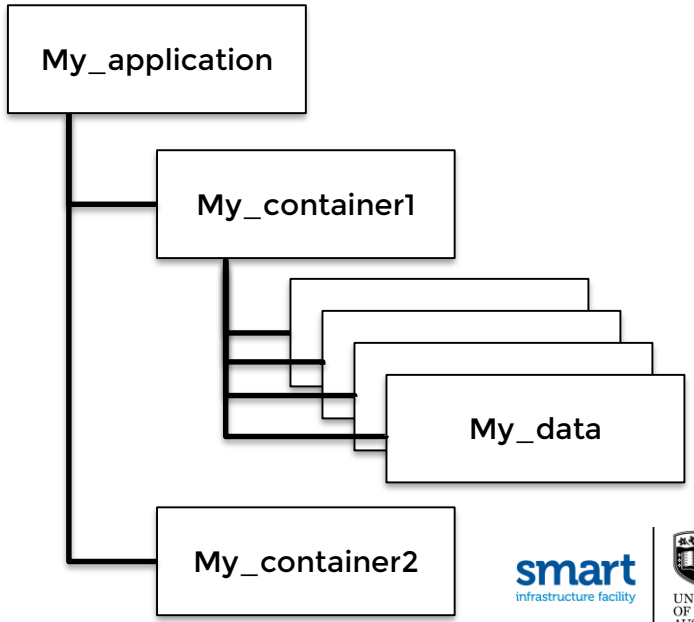
Password: admin

OM2M Cheat sheet

REST API:
https://wiki.eclipse.org/OM2M/one/REST_API

5 operations that you might you need:

1. Create an application (AE)
2. Create a container (CNT)
3. Create a container instance (CI)
4. Get the last container instance (la)
5. Subscribe to a container (SUB)



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OM2M Cheat sheet – AE Creation

Field	Value
URL	http://127.0.0.1:8080/~/in-cse
Method	POST
Header	X-M2M-Origin: admin:admin Content-Type: application/xml;ty=2
Body	<m2m:ae xmlns:m2m="http://www.onem2m.org/xml/protocols" rn="MY_SENSOR" > <api>app-sensor</api> <rr>false</rr> </m2m:ae>

OM2M Cheat sheet – CNT Creation

Field	Value
URL	http://127.0.0.1:8080/~/in-cse/in-name/MY_SENSOR
Method	POST
Header	X-M2M-Origin: admin:admin Content-Type: application/xml;ty=3
Body	<m2m:cnt xmlns:m2m="http://www.onem2m.org/xml/protocols" rn="MY_CONTAINER"> </m2m:cnt>

OM2M Cheat sheet – CI Creation

Field	Value
URL	http://127.0.0.1:8080/~/in-cse/in-name/MY_SENSOR/MY_CONTAINER
Method	POST
Header	X-M2M-Origin: admin:admin Content-Type: application/xml;ty=4
Body	<m2m:cin xmlns:m2m="http://www.onem2m.org/xml/protocols"> <cnf>application/xml</cnf> <con> MyData</con> </m2m:cin>

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OM2M Cheat sheet – Get Last Data

Field	Value
URL	http://127.0.0.1:8080/~/in-cse/in-name/MY_SENSOR/MY_CONTAINER/la
Method	GET
Header	X-M2M-Origin: admin:admin Content-Type: application/xml
Body	(empty)

OM2M Cheat sheet – Subscribe Data

Field	Value
URL	http://127.0.0.1:8080/~/in-cse/in-name/MY_SENSOR/MY_CONTAINER
Method	POST
Header	X-M2M-Origin: admin:admin Content-Type: application/xml;ty=23
Body	<m2m:sub xmlns:m2m="http://www.onem2m.org/xml/protocols" rn="SUB_MY_SENSOR"> <nu> http://localhost:1400/monitor </nu> <nct>2</nct> </m2m:sub>

Playing with the simulation

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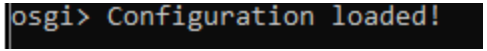

2. Launch the simulation:

https://github.com/Eldey/om2mHackathon/tree/master/Digital%20Twin

Windows/Linux/Mac

Playing with the simulation

- Each room is composed of:
  - A light (colour and intensity)
  - A door (closed or opened)
  - A window (closed or opened)
  - A movement sensor (on or off)

https://github.com/Eldey/om2mHackathon/tree/master/API

> Get the state of a device

> Set the state of a device

> Control the simulation with Python

Keep In Touch

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