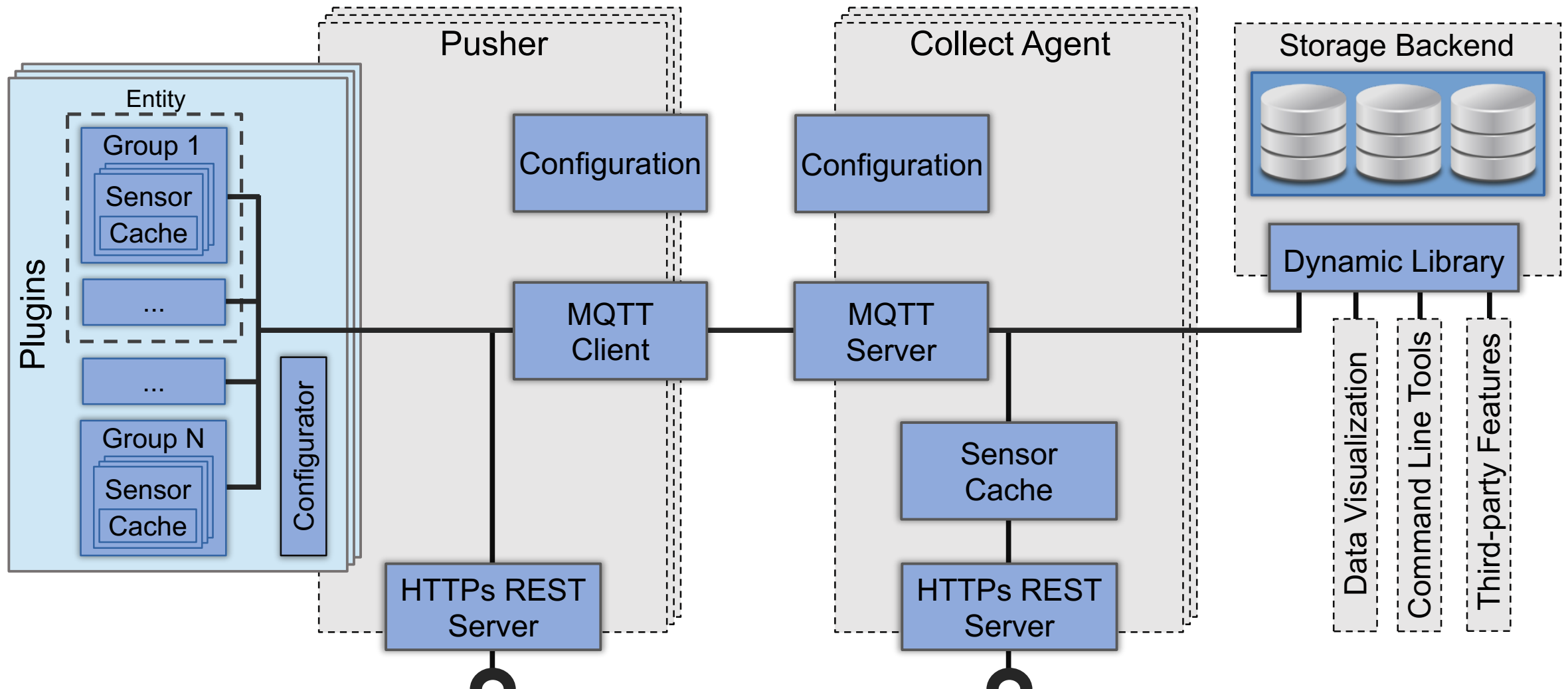# DCDB 101

BEAST Lab Course | 24/11/2021 | Michael Ott

DCDB Architecture

Environment

```
lu78mod2@beast-gw:~> source /opt/dcdb/dcdb.bash
```

dcdbconfig sensor list

```
lu78mod2@beast-gw:~> dcdbconfig sensor list
dcdbconfig 0.4.272-g4611155 (libdcdb 0.4.272-g4611155)

/beast/beast-gw/power_ac
/beast/cs/power_ac
/beast/cs1-8/power_ac
/beast/ibswitch/power_ac
/beast/ipmiswitch/power_ac
/beast/pdu1/power1
/beast/pdu1/power10
/beast/pdu1/power11
/beast/pdu1/power12
/beast/pdu1/power2
/beast/pdu1/power3
/beast/pdu1/power4
```

dcdbconfig sensor show

```
lu78mod2@beast-gw:~> dcdbconfig sensor show /beast/rome1/power_ac
dcdbconfig 0.4.272-g4611155 (libdcdb 0.4.272-g4611155)

Details for virtual sensor /beast/rome1/power_ac:
Expression: /beast/pdu1/power5+/beast/pdu2/power5
vSensorId: /beast/rome1/power_ac
T-Zero: 2021-04-15T14:39:17.211384000 (1618497557211384000)
Unit: W
Scaling factor: 1
Operations:
Interval: 30000000000
TTL: 0
Sensor Properties:
```

dcdbquery (1/2)

```
lu78mod2@beast-gw:~> dcdbquery /beast/rome1/power_ac now-5m now
dcdbquery 0.4.272-g4611155 (libdcdb 0.4.272-g4611155)

sensor(/beast/pdu1/power5) sensor(/beast/pdu2/power5) add
Sensor,Time,Value (W)
/beast/rome1/power_ac,2021-05-06T15:16:47.211384000,332
/beast/rome1/power_ac,2021-05-06T15:17:17.211384000,334
/beast/rome1/power_ac,2021-05-06T15:17:47.211384000,335
/beast/rome1/power_ac,2021-05-06T15:18:17.211384000,338
/beast/rome1/power_ac,2021-05-06T15:18:47.211384000,341
/beast/rome1/power_ac,2021-05-06T15:19:17.211384000,344
/beast/rome1/power_ac,2021-05-06T15:19:47.211384000,346
/beast/rome1/power_ac,2021-05-06T15:20:17.211384000,345
/beast/rome1/power_ac,2021-05-06T15:20:47.211384000,344
```

dcdbquery (2/2)

```
lu78mod2@beast-gw:~> dcdbquery -r /beast/rome1/power_ac "2021-05-05 02:30" "2021-
05-05 02:35"
dcdbquery 0.4.272-g4611155 (libdcdb 0.4.272-g4611155)

sensor(/beast/pdu1/power5) sensor(/beast/pdu2/power5) add
Sensor,Time,Value (W)
/beast/rome1/power_ac,1620174587211384000,334
/beast/rome1/power_ac,1620174617211384000,334
/beast/rome1/power_ac,1620174647211384000,334
/beast/rome1/power_ac,1620174677211384000,333
/beast/rome1/power_ac,1620174707211384000,335
/beast/rome1/power_ac,1620174737211384000,336
/beast/rome1/power_ac,1620174767211384000,335
/beast/rome1/power_ac,1620174797211384000,334
/beast/rome1/power_ac,1620174827211384000,334
```