

A Demo of a Software Platform for Ubiquitous Big Data Engineering, Visualization, and Analytics, via Reconfigurable Micro-Services, in Smart Factories

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CLUSTERING-BASED ALERTING SYSTEM

CREATE

```
POST https://net-factory:585/FullExample/transformationlibrary
POST https://net-factory:585/FullExample/broker
POST https://net-factory:585/FullExample/servicenode {name: dbtail}
...
```

CONFIG

```
PUT https://sn-dbtail:1993/node/transformation dbtail
PUT https://sn-dbtail:1993/dbtail/host AlertDatabase
PUT https://sn-dbtail:1993/dbtail/port 3306
...
```

OPERATE

```
POST https://sn-dbtail:1993/node/start
POST https://sn-expr:1994/node/start
POST https://sn-filter:1995/node/start
...
```

DESTROY

```
POST https://sn-dbtail:1993/node/stop
POST https://net-factory:585/FullExample/DbtailSN/off
DELETE https://net-factory:585/FullExample/DbtailSN
...
```

BIG DATA ENGINEERING AND ANALYTICS

CREATE

```
POST https://net-factory:585/FullExample/aiserver
POST https://net-factory:585/FullExample/app {image:kafka}
POST https://net-factory:585/FullExample/app {image:hadoop}
...
```

CONFIG

```
POST https://net-factory:585/FullExample/DefaultAISrv/task/MyFilter
POST https://net-factory:585/FullExample/DefaultAISrv/client
POST https://net-factory:585/FullExample/TransfLib/module/alfa
...
```

OPERATE

```
POST https://sn-aiclient-inject:2111/inject start
POST https://sn-streamval-inject:2112/inject 111
POST https://sn-aiclient-inject:2111/inject stop
...
```

DESTROY

```
POST https://net-factory:585/FullExample/DefaultAISrv/stop
POST https://net-factory:585/FullExample/DefaultAISrv/off
DELETE https://net-factory:585/FullExample/DefaultAISrv
...
```

BIG DATA STREAM VISUALIZATION

CREATE

```
POST https://net-factory:585/FullExample/servicenode {name: VisHtml}
POST https://net-factory:585/FullExample/servicenode {name: VizAI}
POST https://net-factory:585/FullExample/servicenode {name: VizStreamWriter}
...
```

CONFIG

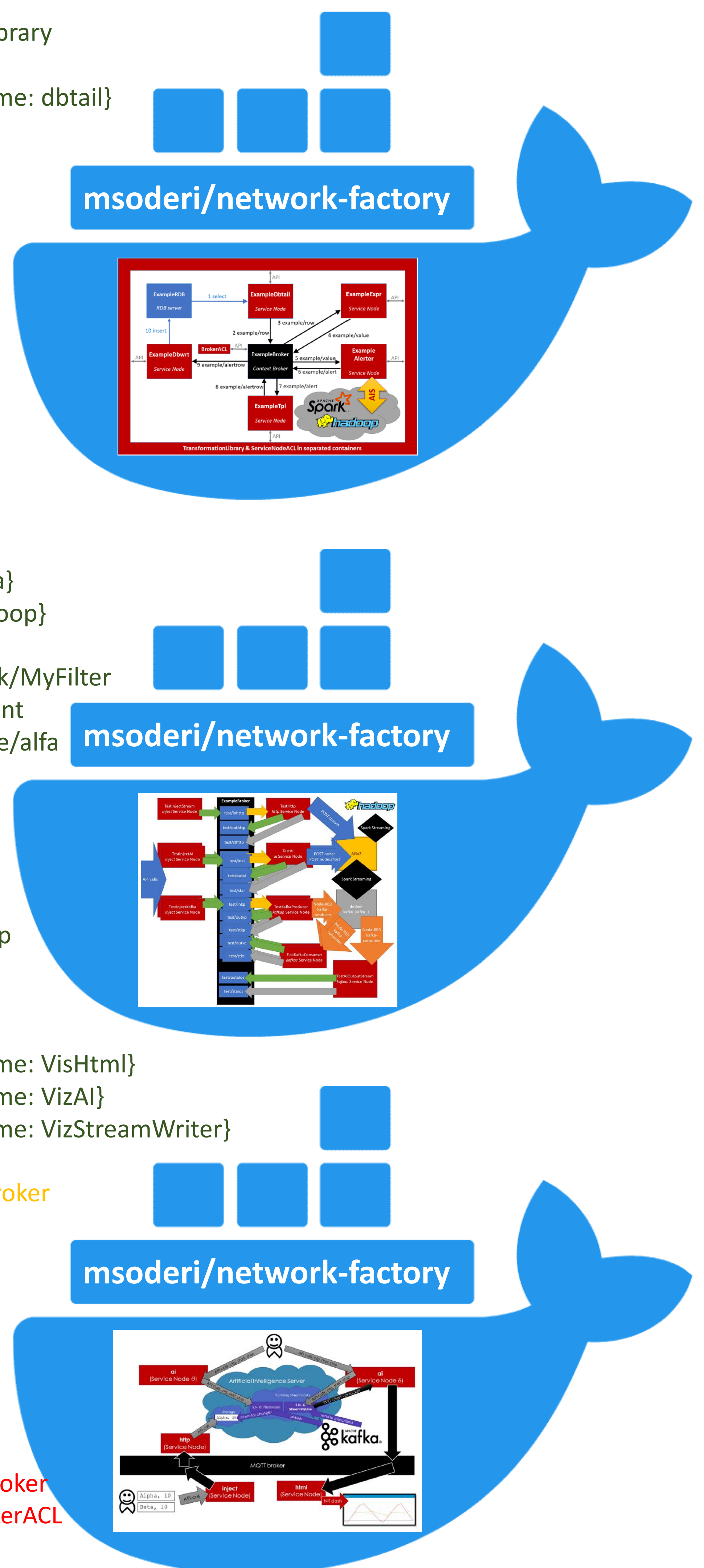
```
PUT https://sn-vizhtml:2130/node/in/broker DefaultMqttBroker
PUT https://sn-vizhtml:2130/node/in/port 8883
PUT https://sn-vizhtml:2130/node/in/topic vizhtmlinput
...
```

OPERATE

```
POST https://sn-aiclient-inject:2111/inject start
POST https://sn-streamval-inject:2112/inject 111
POST https://sn-aiclient-inject:2111/inject stop
...
```

DESTROY

```
DELETE https://net-factory:585/FullExample/TransfLib
DELETE https://net-factory:585/FullExample/DefaultMqttBroker
DELETE https://net-factory:585/FullExample/DefaultMqttBrokerACL
...
```



Remark: It is important to note that the API calls on this poster are for illustrative purposes and do not exactly correspond to the actual API calls that are included in the Postman collection.