



biot

Information Pipelines in IoT-Clouds

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Vendor Lock-in



WS, API, REST, SOA

Threads, AllJoyn, WoT,
IoTivity

CoAP, MQTT, XMPP,
ØMQ, LWM2M

Z-Wave, 6LoWPAN,
ZigBee, BT(LE)

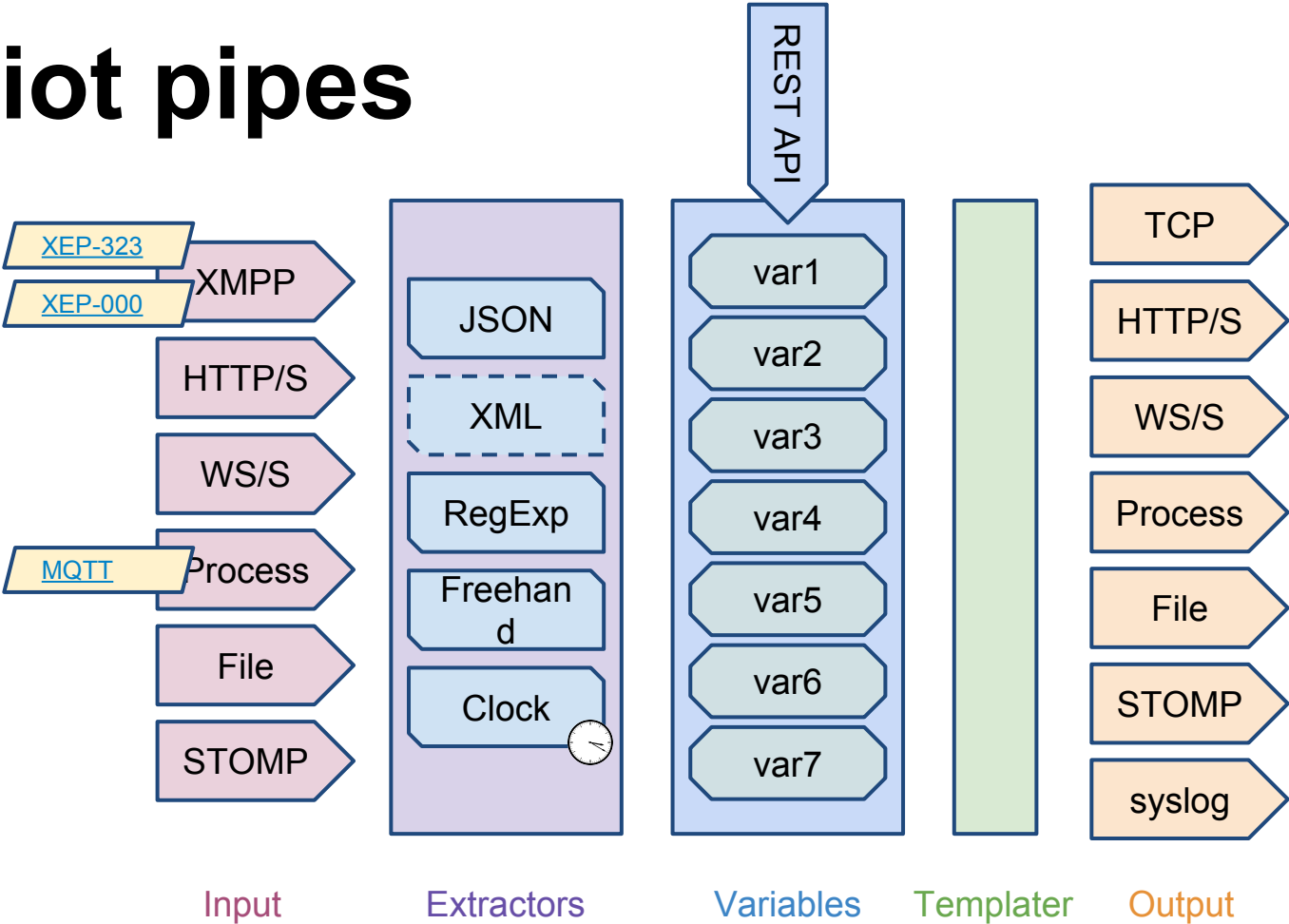
IEEE 802.15.4, IEEE
802.11, ITU-T G.9959



Photo: Verisure



biot pipes



Example

```
whatismyip
```

```
  http+get://whatismyip.org/
```

```
-
```

```
-
```

```
-
```

```
120
```

Source

```
whatismyip.ip:
```

```
  RX
```

```
((([2][5][0-5]|([2][0-4]|[1][0-9]|[0-9])?[0-9])\.)}{3})([2][5][0-5]|([2][0-4]|[1][0-9]|[0-9])?[0-9])
```

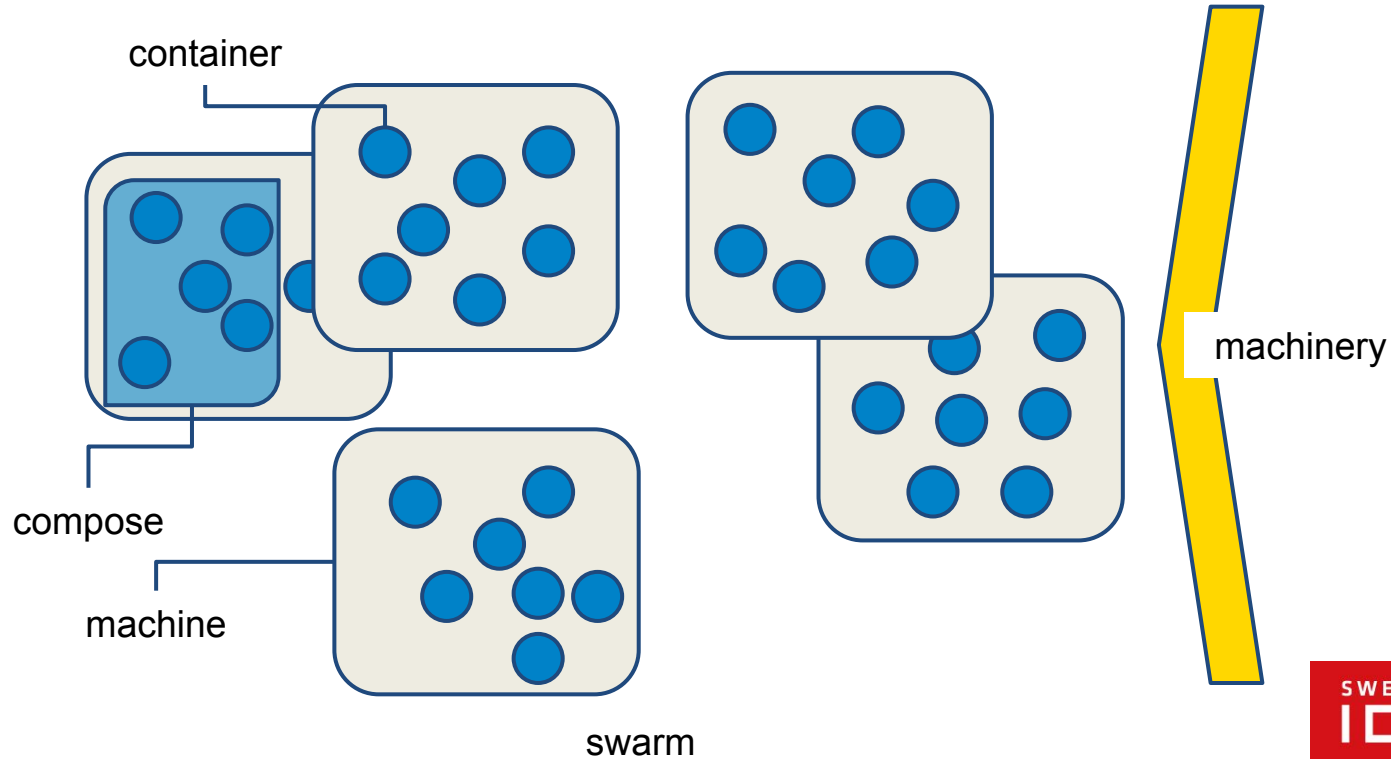
Variables

Destinations

Deployments

- Private clouds (Virtual Box)
- Public clouds (Microsoft Azure)
- Bare Metal (Ubuntu)

Docker Ecosystem

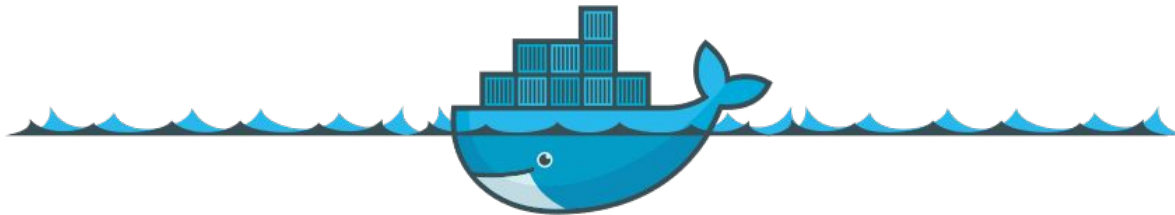


Applications

- IoT Measurement Data Integrations
- Information streams
- e-Health

Hack, Participate, Share, (Re)use

- biot: <https://bitbucket.org/enbygg3/biot> 🚢
- docker Tcl distributions:
 - Large: <https://github.com/efrecon/docker-tcl> 🚢
 - Tiny: <https://github.com/efrecon/mini-tcl> 🚢
- docker API: <https://github.com/efrecon/docker-client>
 - dockron: <https://github.com/efrecon/dockron> 🚢
- STOMP: <https://github.com/efrecon/tcl-stomp> 🚢 🚢
 - HTTP->STOMP: <https://github.com/efrecon/htstomp> 🚢
 - docker->STOMP: <https://github.com/efrecon/docker2stomp> 🚢
- etcd: <https://github.com/efrecon/etcd-ctl> 🚢
- machinery: <https://github.com/efrecon/machinery>



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