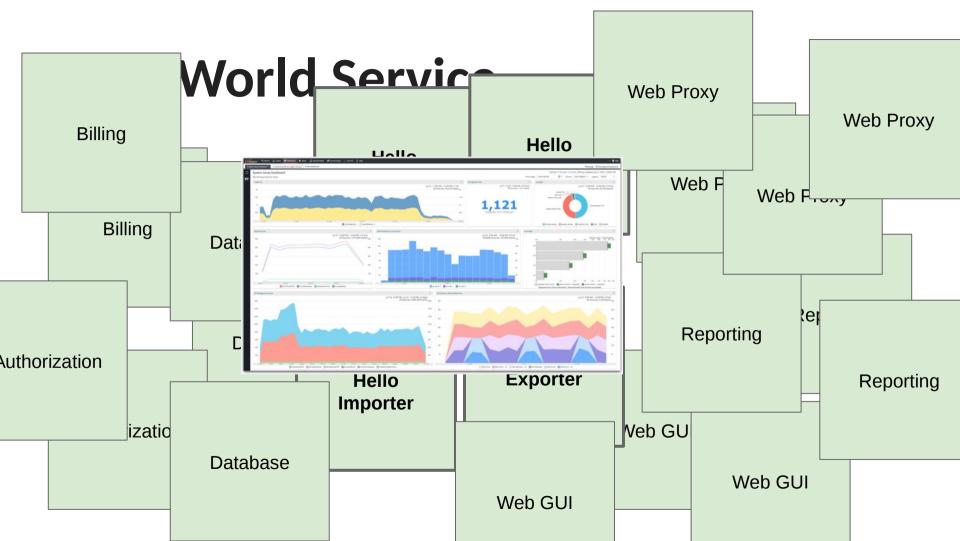
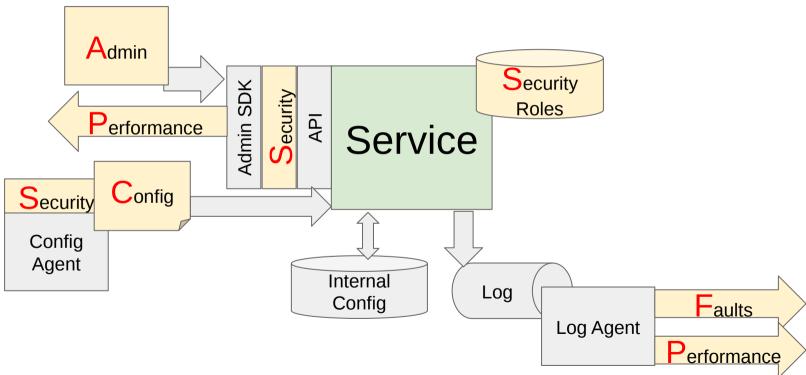
# Why Aren't We Using YANG/RESTCONF for All Software Management?

Douglas Hubler <douglas@hubler.us>

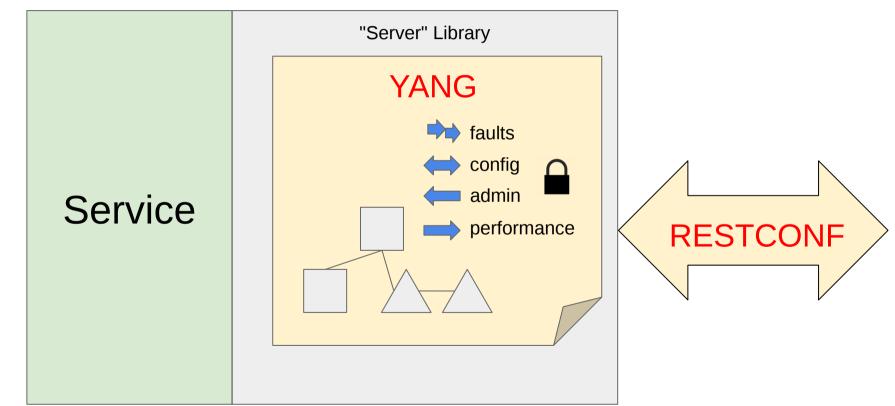


## **Typical Integration**





#### **Standards**



#### Scope

More software developers doing DevOps than Application Development

-- 2018 State of DevOps Report/PuppetLabs

#### **Getting Started - Bottom up**

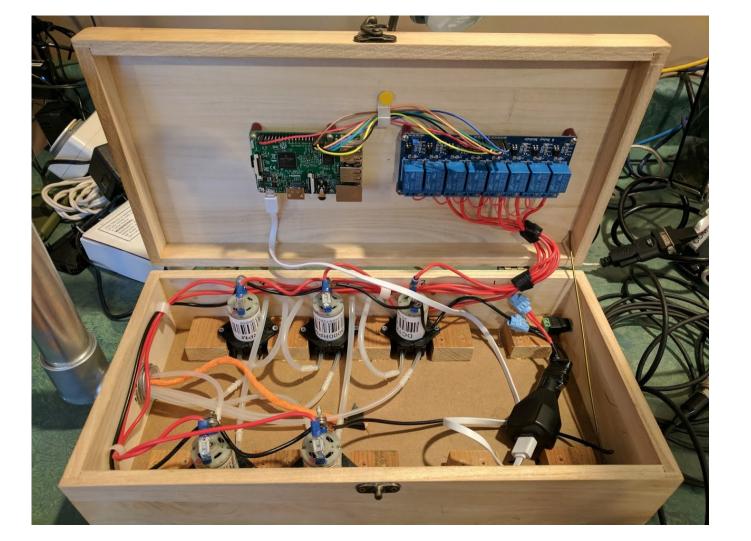
2015 started implementation on a

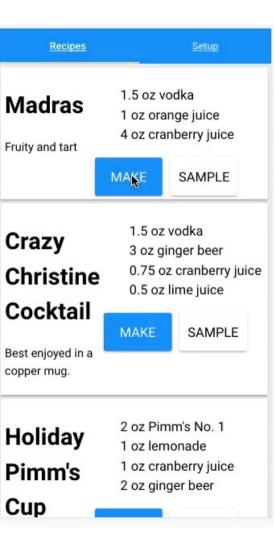
YANG parser

and RESTCONF implementation

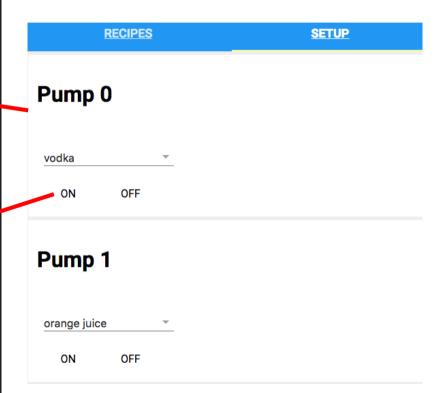
in Go called FreeCONF

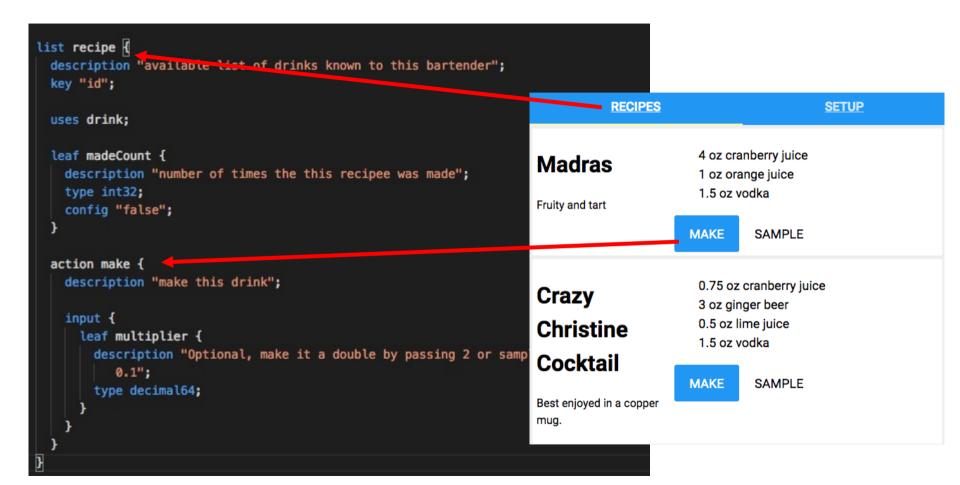




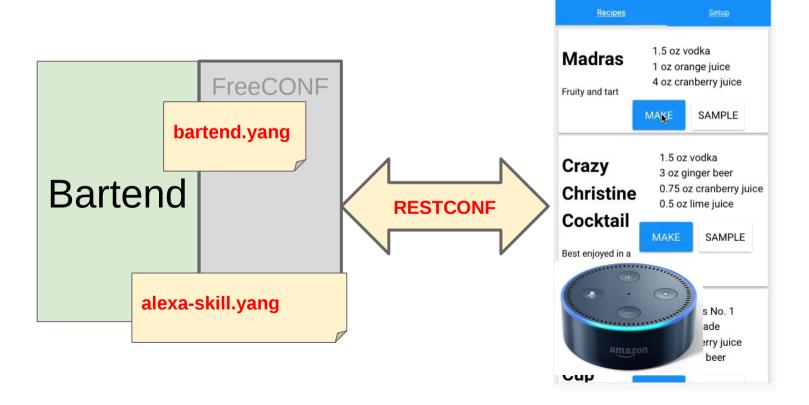


```
module bartend {
namespace "":
revision 0:
description "Bartender is an app that will mix a drink by turning on a set of
 liquid pumps";
list pump {
 description "olicet access to hardware pumps";
  key "id";
  leaf id {
   description "ids from 0-8 for the installed pumps";
   type int32;
  leaf gpioPin {
   description "Raspberry PI GPIO pin number. Do not change unless you're rewired your Pi.";
   type int32;
  leaf timeToVolumeRatioMs {
   description "number of millisecs to turn on pump to pour one milliliter";
   type int32;
  leaf liquid {
   description "name of the liquid. If name does not match (case sensitive) recipe
      ingredient exactly, it will not recognized as same liquid.";
   type string;
  action on {
      description "turn on the pump";
  action off {
      description "turn off the pump";
```





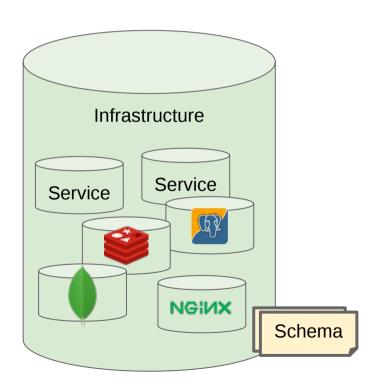
## **Implementation**



#### FreeCONF is used in:

- 1.loT
- 2.Schools
- 3. Malware Detection

#### **Potential Ecosystem**













pagerduty

























## Help

- Validation
- Guidance
- Connections
- 10 million developers be more productive!

To help, please reach out to Douglas Hubler <a href="mailto:douglas@hubler.us">douglas@hubler.us</a>>