

Monitor and Rule Engine

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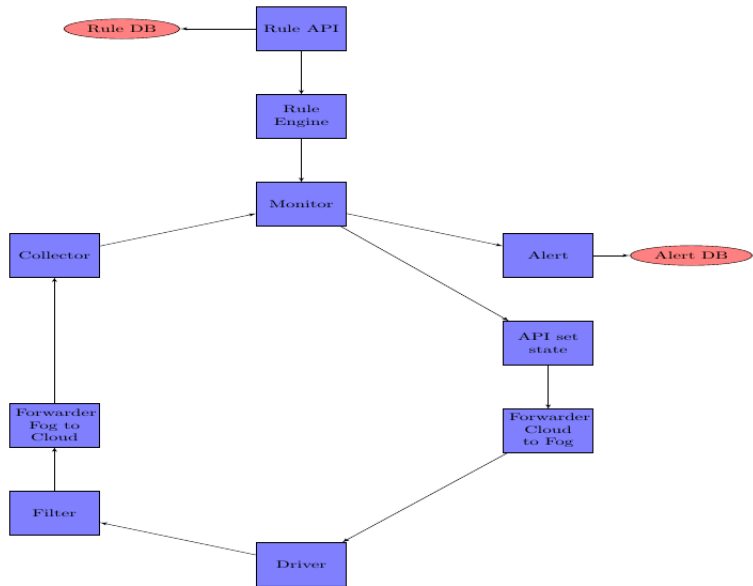
- 1 Rule API
- 2 Rule Engine
- 3 Monitor
- 4 Alert
- 5 Sensor
- 6 Future Works

- Receive rule from UI and save it to the database (json format).
- Send rule data (json) to UI to display
- Send rule data to Rule Engine.
- Save data in Mysql database

- Receive **active** rule from Rule API and transfer it to Monitor module.

- Receive thing's information from Collector and rule from Rule Engine
- Check condition in rule with the thing's information. If the condition satisfy, do action
 - Send Alert / Set state
- To set state, using API set state from Quan.
- To Send Alert, using Alert module

- Receive message from Monitor module
- Save data to file.



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- Three boxes, each box contain:
 - 1 motion sensor
 - 1 temp, 1 humidity, 1 photoelectric sensor
 - 3 LED: red, yellow, green
- Problem
 - Platform, Driver have latency, not match with sensor latency. It's make sometimes Driver receive wrong data
 - Can't set item (LED) almost same time. It's will make Arduino receive wrong data.

Future Works

- Intergrate with UI
- Define use cases
- Unify thing/item types, states between all platform.
- Implement more hardwares.

Thanks for listening