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From Monitoring to ITSM

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“Monitoring strategy should start from the business KPIs.”

– *Devdas Bhagat*



“Monitoring needs to enable your team to engage”

– at Monitorama a while ago



\$ finger fkr





OSB Open Source
Business
ALLIANCE



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ITSM



“IT service management (ITSM) refers to the entirety of activities – directed by **policies**, organized and structured in **processes** and supporting **procedures** – that are performed by an organization to design, plan, deliver, operate and control **information technology** (IT) services offered to customers.”



“IT service management enables us to deliver a superior customer experience when things go wrong”

...and things will go wrong.



Building blocks



SOP

Monitoring

Service Desk

Asset Management



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A Process should...

- ❖ ...enable people in your organisation to engage autonomously
- ❖ ...be a guidance, not a handcuff
- ❖ ...make things easier



Take the process from being implicit to being explicit



“Reasons - not rules”

– *h5b*



SOP

- ❖ Standard Operating Procedures
- ❖ Simple building blocks for establishing a process
- ❖ Help increase quality by establishing standards
- ❖ Bonus: lower the barrier for newcomers to the org



Monitoring



Monitoring...or metrics?

- ❖ Something that generates events...
- ❖ ...and possibly alerts on those
- ❖ icinga for example



Monitoring should...

- ❖ ...trigger a genuine action
- ❖ ...disrupt your routine
- ❖ ...assist in achieving higher quality



Service Desk

» REQUEST «
TRACKER



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Service Desk

- ❖ Papertrail for customer interaction
- ❖ Better handover in between teams
- ❖ Handle customer expectations
- ❖ Raises the overall quality in customer interaction



Asset Management

- ❖ The toughest of the four - imho
- ❖ Various solutions - all feel bulky at first
- ❖ Try something lean
 - ❖ built-into RT
 - ❖ idb - <https://github.com/idb-project/>



❖ Process

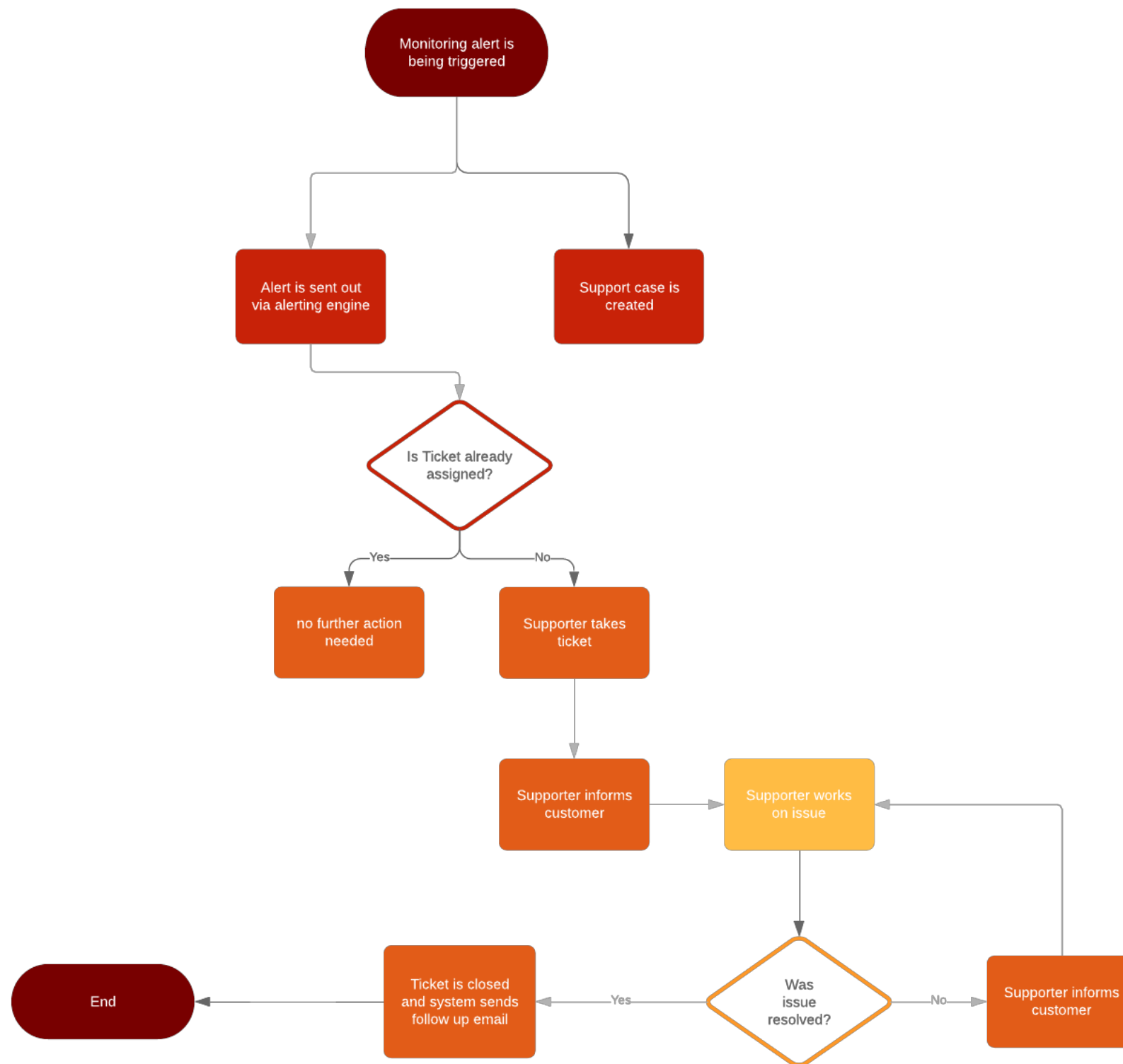


❖ Monitoring



❖ Service Desk





connecting things

(or how I stopped worrying and started loving the glue code)



json-rt-api



json-rt-api

- ❖ ruby based wrapper around 'rt'-cli
- ❖ exposes a json http api
- ❖ can be hooked into icinga1 via commands
- ❖ <https://blog.bytemine.net/2015/06/29/Integrating-monitoring-with-Request-Tracker/>
- ❖ <https://github.com/bytemine/json-rt-api>



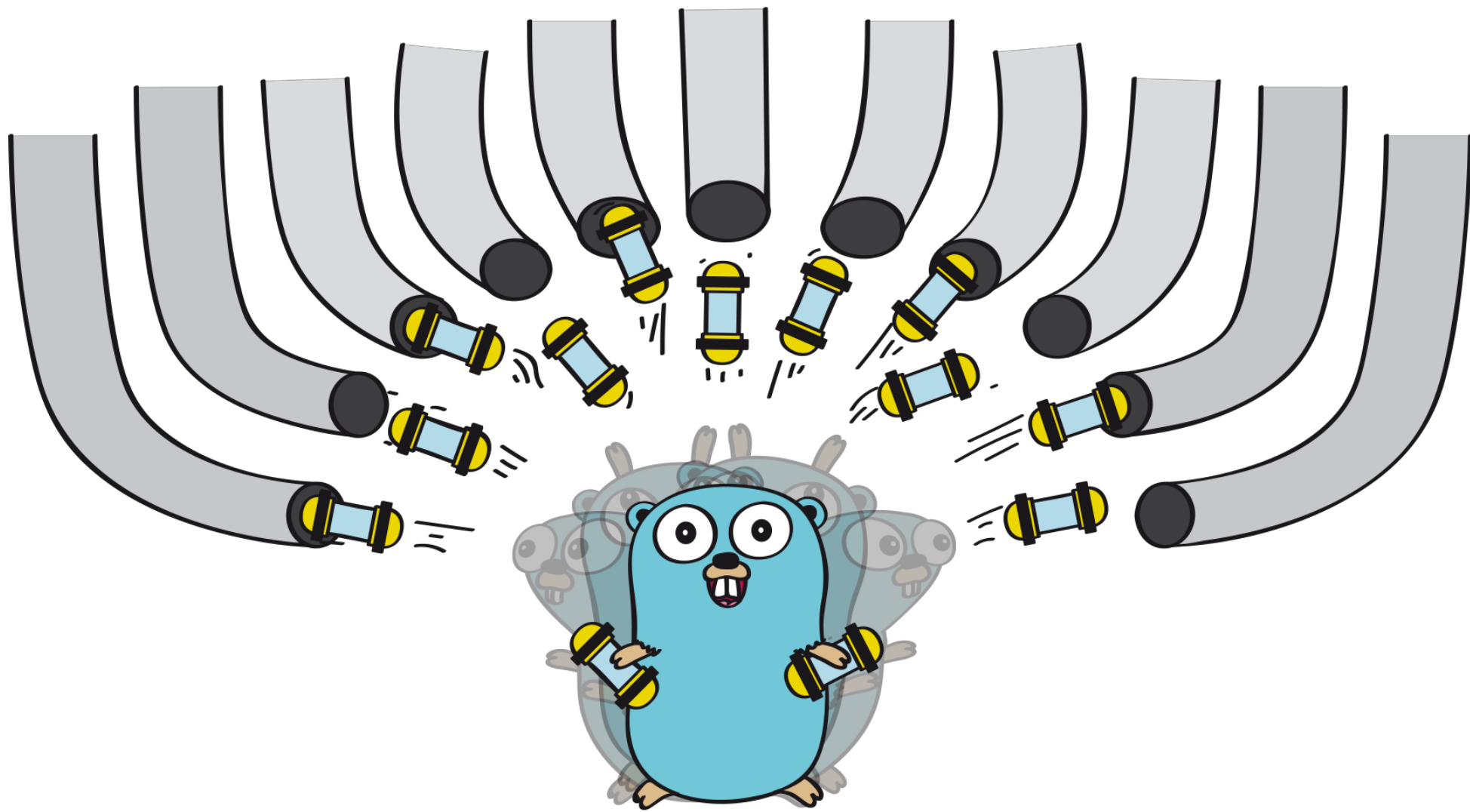
icinga2rt



icinga2rt

- ❖ Golang based - single static binary
- ❖ Wraps the icinga2 event API
 - ❖ <https://github.com/bytemine/go-icinga2>
- ❖ Submits events to RT-REST
- ❖ <https://github.com/bytemine/icinga2rt>





rotochute

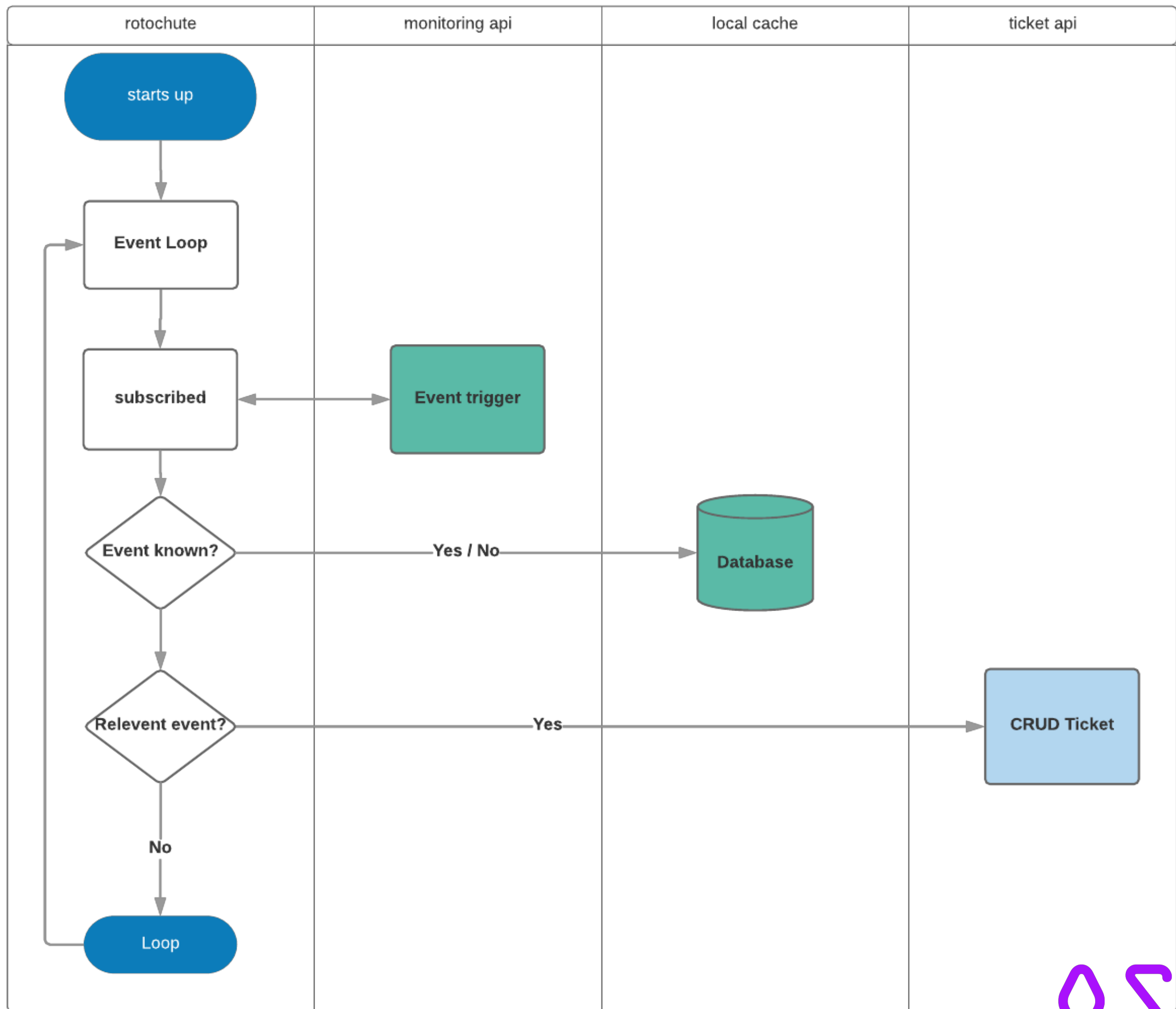


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rotochute

- ❖ icinga2rt revisited
- ❖ employs RT-REST2
- ❖ Bonus: easy addition of further ticketing
- ❖ <https://g.hazardous.org/fkr/rotochute>

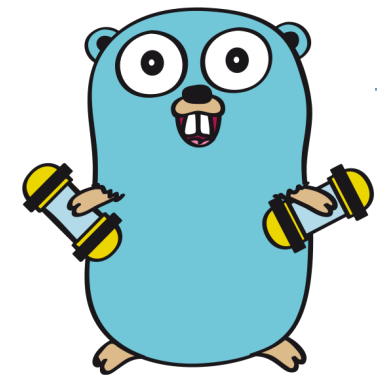




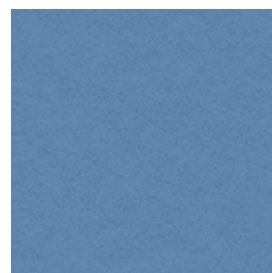
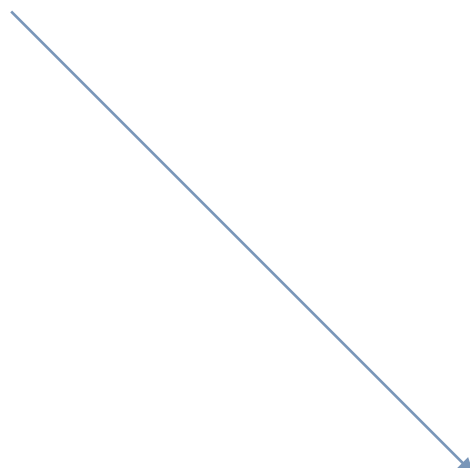
```
# ignore OK events if no old state is known
OK,,false,ignore
# delete ticket if unowned and was WARNING, CRITICAL or UNKNOWN
OK,WARNING,false,delete
OK,CRITICAL,false,delete
OK,UNKNOWN,false,delete
# comment ticket if unowned and was WARNING, CRITICAL or UNKNOWN
OK,WARNING,true,comment
OK,CRITICAL,true,comment
OK,UNKNOWN,true,comment
[...]
```



rotochute

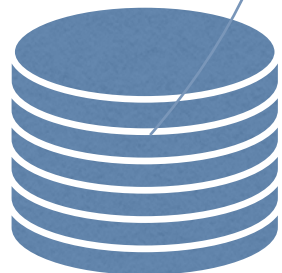


monitoring event stream



ticketing api

ticketing



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What's next?



rotochute lookout

- ❖ Finish support for Zammad
- ❖ Hook into Prometheus
- ❖ Allow for arbitrary outbound configurable webhooks



Further Resources

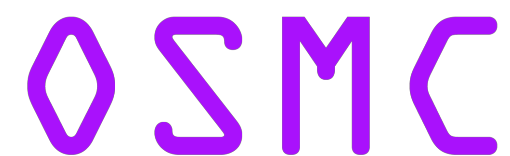
- ❖ <https://github.com/Icinga/icinga2-api-examples>
- ❖ <https://github.com/abh/rt-docker>
- ❖ <https://github.com/zammad/zammad-docker>



Thanks for listening!



Thanks to the awesome
OSMC / netways crew!



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Credits

- ❖ Slide 2, Quote: <https://twitter.com/f3ew/status/1037268168153214976>
- ❖ Slide 6, Definition ITSM from Wikipedia: https://en.wikipedia.org/wiki/IT_service_management
- ❖ Slide 12, <https://twitter.com/l0x1r4n>
- ❖ Slide 14, <https://www.pinterest.com/pin/88594317643595202/>
- ❖ Slide 17, Logos taken from the official project sites
 - ❖ Request Tracker: <https://bestpractical.com>
 - ❖ Zammad: <https://zammad.org>
 - ❖ OTRS: <https://otrs.com>
- ❖ Slide 27, rotochute logo done by Erika Offen, based on the golang gopher

