

Mgmt Config:

Merging Config Management and Monitoring (in real-time)

James Shubin, a.k.a. **@purpleidea**
Config Mgmt. Architect, m9rx (self-funded)

FOSDEM, Brussels, Belgium, 03/Feb/2019

Why are these separate?

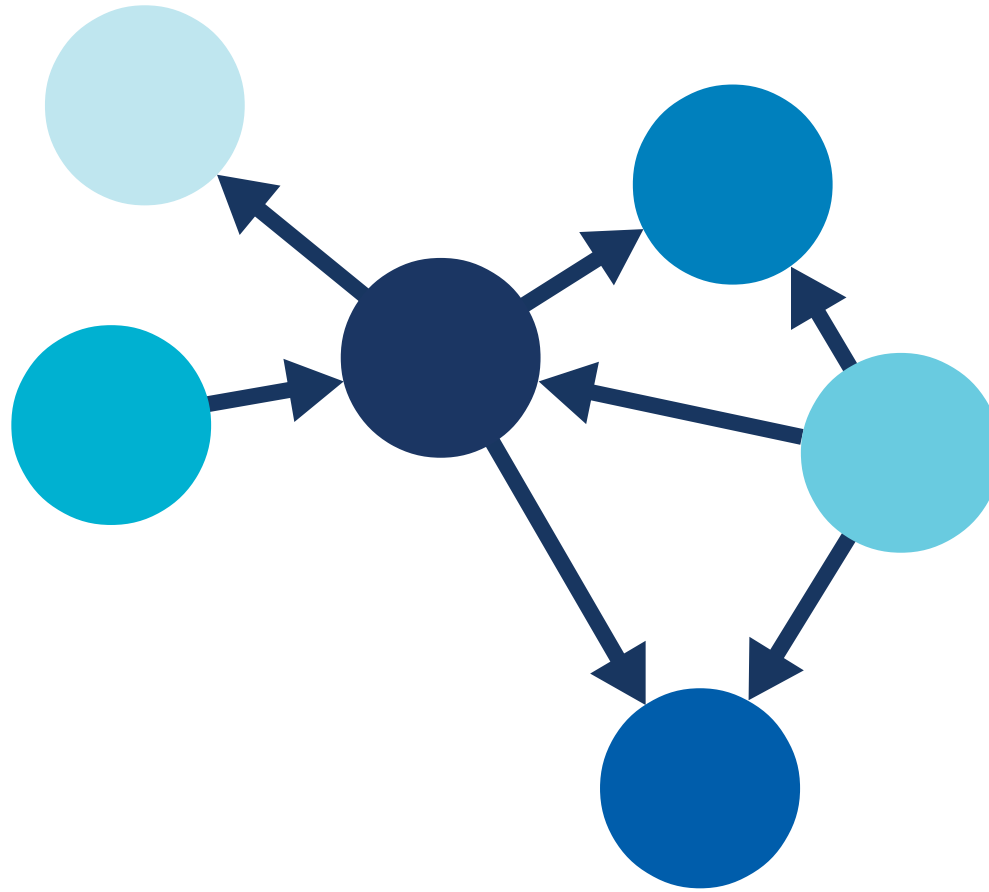




JAMES SHUBIN

Who am I ?

- Hacker
- Config Mgmt. Engineer
- Technical Blogger: The Technical Blog of James
<https://purpleidea.com/blog/>
- Physiologist (Cardiology Specialization)
- DevOps believer



mgmtconfig

Two Demos

1) Reactive Resources

What is this?

MONITORING

2) Reactive Language

Reactive: demo

```
$y1 = datetime() + $ayear  
  
# note the order of the assignment (year can come later in the code)  
  
$ayear = 60 * 60 * 24 * 365 # is a year in seconds (31536000)  
  
$tmpl = struct{year => $y1, load => $load, vu => $vu, }  
  
$load = load()  
  
$vu = vumeter("=====", 10, 0.9) # symbol, multiplier, peak  
  
$f = "Now + 1 year is: {{ .year }} seconds, aka: {{ .year }}\n\n  
load average: {{ .load }}\n\n  
vu: {{ .vu }}\n"  
  
file "/tmp/mgmt/datetime" {  
    content => template($f, $tmpl),  
}
```


Future work

Future work

Code as you go (non-blockers)

- Additional functions in the stdlib
- Additional resources (especially “cloud” stuff)

New Features

- Large file transfers (eg: *.iso, etc...)
- Automatic “secrets” (no need for “vault”, etc...)

Bugs

- Etcd backend re-write (1/2 done)
- Engine core re-write (hopefully a small patch)



How can you help?

How can you help?

- Use it
- Test it
- Patch it
- Share it
- Document it
- Star it
- Blog it
- Tweet it
- Discuss it
- Hack it

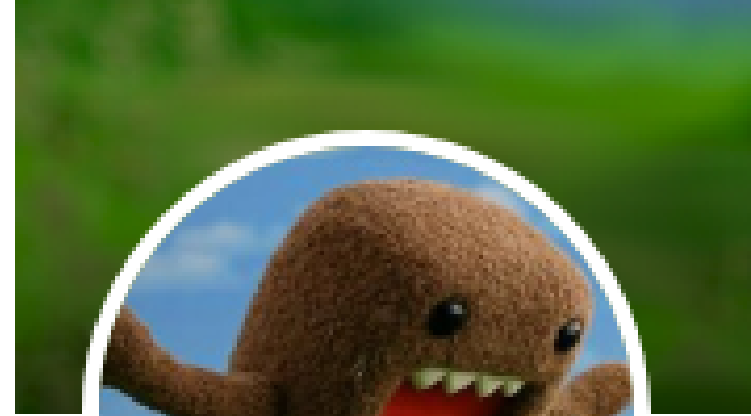
hack it



**mgmt
needs
funding**

Patreon.com/purpleidea

Funding a hacker is sexy!



7

patrons

\$130

per month ·  Public

Let's recap...



IRC:

#mgmtconfig on Freenode

Twitter:

@mgmtconfig & #mgmtconfig

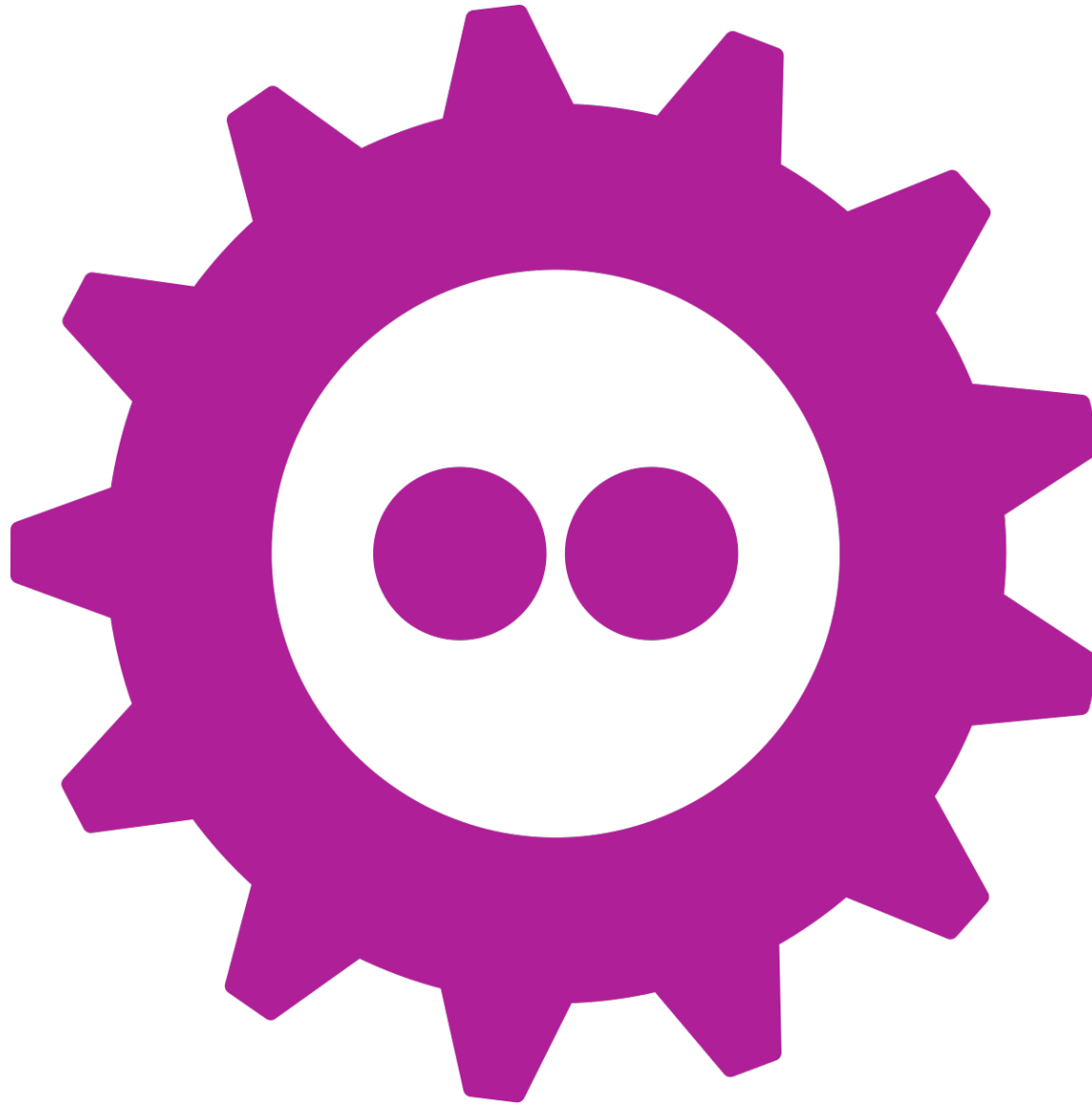
Mailing list:

mgmtconfig-list@redhat.com

Learn more

- The Technical Blog of James:
<https://purpleidea.com/blog/>
- Mgmt:
<https://github.com/purpleidea/mgmt/>
- Engine: <https://youtube.com/watch?v=LkEtBVLfygE>
Lang: https://youtube.com/watch?v=_9PG64AOQ3w
- Technical articles and screencasts about this:
<https://purpleidea.com/tags/mgmtconfig/>
- Contact me if you have any other questions:
purpleidea @ { irc, twitter, github, gmail }

Learn more: Stuff that you missed from FOSDEM!



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– SATURDAY

- **10:30** – A small, FRP DSL for distributed systems
- **13:30** – Mgmt Config: The Road to 0.1
- **15:25** – Mgmt Config: A tale of three graphs
- **16:30** – Real-time virtualization automation

– SUNDAY

- **12:15** – Container automation and scheduling

Learn more: More stuff on 04/Feb in Gent

See more of purpleidea and Felix Frank!



**Config
Management
Camp**

Learn more: Hackathon in Gent (Feb 6th)

- **10:00** – Welcome: General questions / Discussion
- **10:30** – Quick Start: Building and running from source
- **11:30** – Function/Resource API: Writing a custom function or resource
- **13:30** – Modules: Writing a new module
- **14:30** – Open hacking and other topics

Feedback:

Speakers



James Shubin

Links

- [Live video stream from the room \(during event\)](#)
- [Submit feedback](#)





Nice presentation, Ted, but why can't you just use PowerPoint like everybody else?





Thank you & Happy Hacking !



Q & A ?