Mgmt Config:

*Merging Config Management and Monitoring (in real-time)*

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Why are these separate?
Who am I?

- Hacker
- Config Mgmt. Engineer
- Technical Blogger: The Technical Blog of James
  https://purpleidea.com/blog/
- Physiologist (Cardiology Specialization)
- DevOps believer
Two Demos
1) Reactive Resources
What is this?
MONITORING
2) Reactive Language
Reactive: demo

\$y1 = \text{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 = \text{struct}\{\text{year} => \$y1, \text{load} => \$load, \text{vu} => \$vu, \}\}

\$load = \text{load()}

\$vu = \text{vumeter("======", 10, 0.9)}  # symbol, multiplier, peak

\$f = "Now + 1 year is: {{ \text{.year } }} \text{ seconds, aka: } {{ \text{.year } }}\n\nload average: {{ \text{.load } }}\n\nvu: {{ \text{.vu } }}"

\text{file } "/\text{tmp/mgmt/datetime}" \{ 
  \text{content} => \text{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 (½ 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
Funding a hacker is sexy!

Patreon.com/purpleidea
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!
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
Free Stickers!

If you promise to stick them on your laptops, and show off to your friends!
Nice presentation, Ted, but why can't you just use PowerPoint like everybody else?
Thank you & Happy Hacking!