

Varnish Agent

More than just a REST interface

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... Not only a REST interface...
But mostly!

And that's a good thing!

REST interface

- Not a single question mark in the URLs!
- GET /vcl/boot. PUT /vcl/blatti
- Modularized – easy to extend (sort of)
- Does not fork varnishadm and log
- Talks directly to varnish with CLI
- Reads the shmlog directly

What can you do?

- Stats (varnsihstat)
- Stop
- Start
- Review VCL
- Change VCL
- Parameters
- Arbitrary varnishadm commands (don't do this – it's the in-line C of the agent)

- Everyone does that, so why care?
 - Vmods: assert() is not very fun.
 - Vmods: Err... threading isn't actually easy.
 - Stats should be just stats – not HTML, JavaScript, etc.
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- Agent: Just deliver the stats, let Other Things deal with processing.
 - Ok, then there's. `“/html/”`

Embed stats easily

- Put Varnish in front of Varnish Agent!
 - E.g.: <http://pathfinder.kly.no>
- Let your web developers make whatever dashboard they want
- Tune your stack based on varnishstat if you like.

Mandatory Real-World example

- Distributed network of machines used to cache TV broadcasting station
- Accesses content from the broadcaster, but is maintained by local admins (different company)
- SSH access not guaranteed to the broadcaster
- Still need to be able to gather stats, verify VCL and ban content (e.g.: if broadcasting something they shouldn't by accident)
- Agent solves all these problems.

Real world example: Centralized admin console

- Business needs to have a value-add to customers beyond “we're awesome”
- Creates centralized administration console – needs to talk to Varnish to control all aspects of it
- CLI is a hassle to implement in Java (?!), use the agent instead!

Persisting VCL changes

- VCL deployments (vcl.use) is saved to a `/var/lib/...../boot.vcl`
- Have varnishd use this on boot instead of `/etc/varnish/default.vcl`
- Now Varnish will use your agent-provided VCL on boot

TODO

- SSL (...)
- JSON in Varnish – agent tends to break with Varnish upgrades
- Actually get the Varnish 4.1-compatible agent released!
- Health/backend control
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