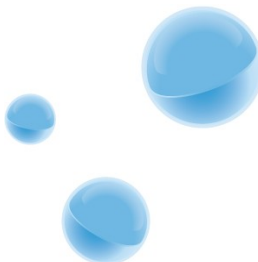# VARNISH

Makes Websites Fly
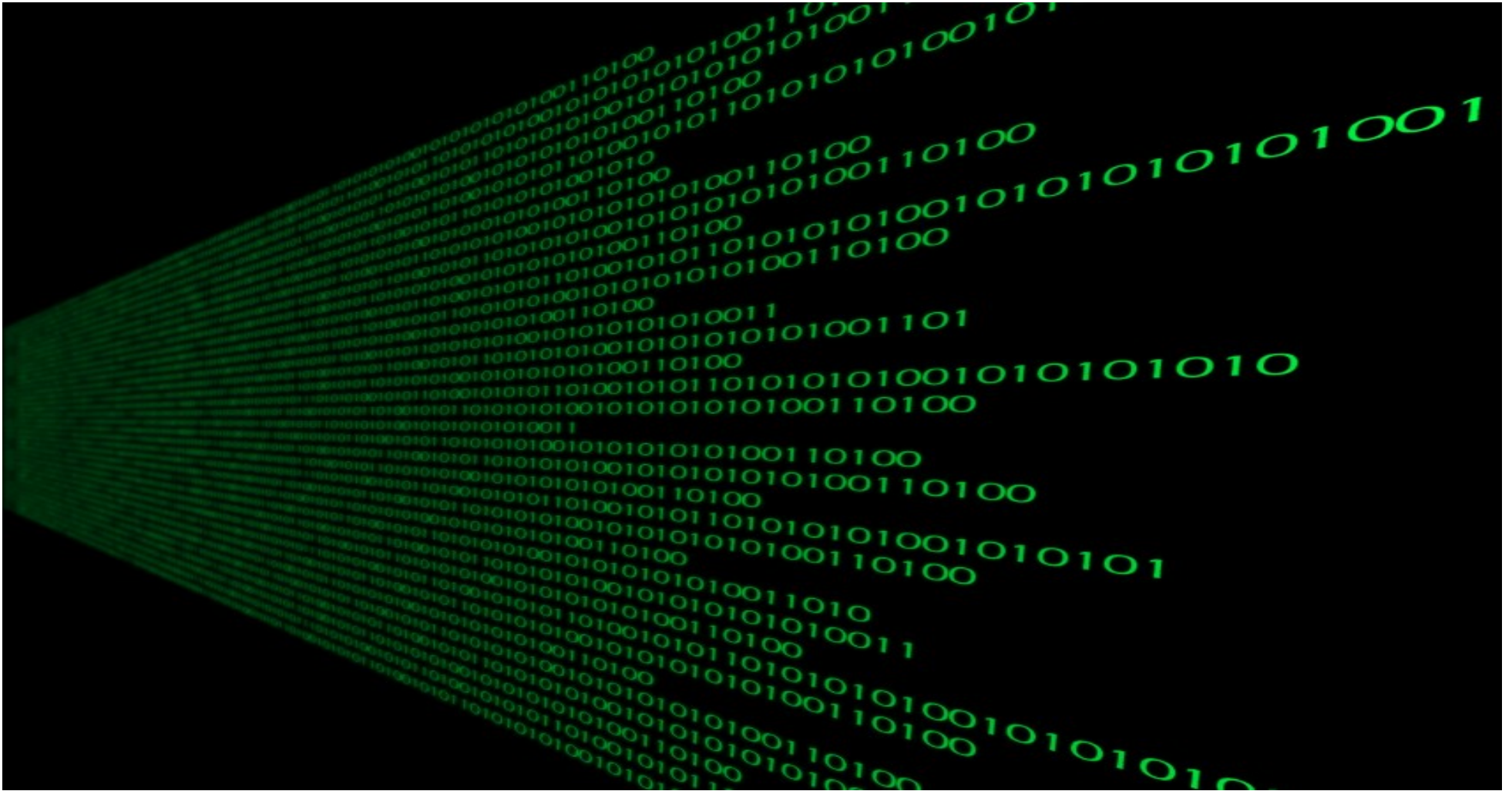
Varnish Modules

Kristian Lyngstøl
Product Specialist
Varnish Software AS
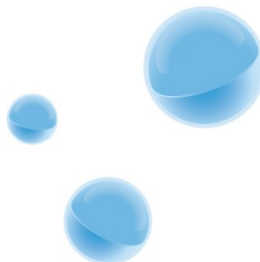
Paris, March, 2012

Config to Code
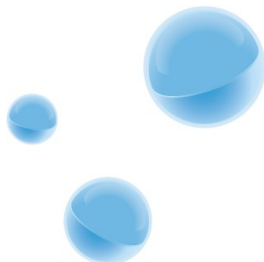

Policy based configuration
VCL

VCL

- State engine
- Varnish runs VCL
- You provide VCL (except the default, Andreas tells me it's appended)

- VCL is translated to C
- Compiled
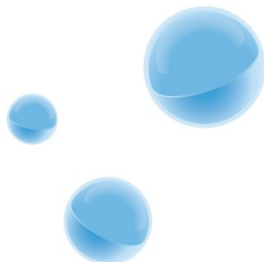- Linked
- ???
- Profit

In-line C!

Dear VCL compiler,

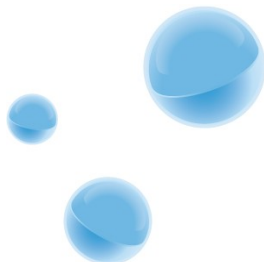This is the sysadmin, I'd like to inform you that the following is already C-code:
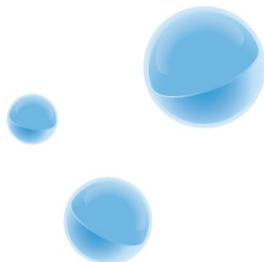
```
C{ here_it_is(); }C
```

Ta!

In-line C!

- Added because it was "free".
- Escape hatch
- Not meant to be used....

- BUT PEOPLE DO!
- (and it's awesome)

Varnish modules
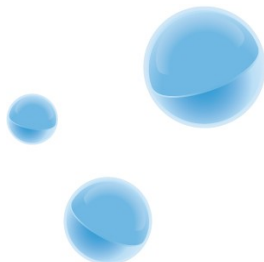
▶In-line C, except maintainable!

▶Almost the same "hooks"

▶Accessed from VCL

▶Eg:

```
Import std;
Sub vcl_recv {
Set req.http.x-random = std.random();
}
```
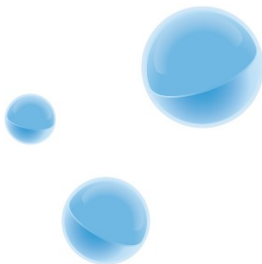
VMOD examples
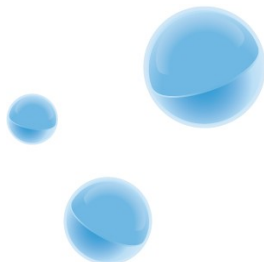
▶ NULL-data for synthetic()

▶ Digest vmod, for hmac, md5, sha256, etc...

▶ Redis

▶ Crash handler (or crash initiator? `If (req.request == "BOOM") { crashhandler.crash(); }`)
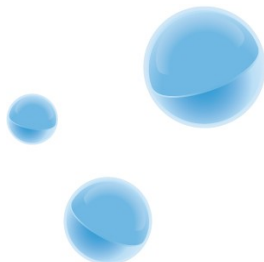
▶ Curl-vmod?

▶ Many many more
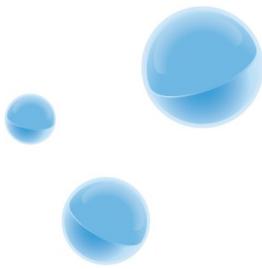
https://www.varnish-cache.org/vmods

I have no more time to improvise slides!

Here's the kitty, again

DEMO

Contact information

Kristian Lyngstøl

Product Specialist

kristian@varnish-software.com

@kristianlyng (twitter)

http://www.varnish-software.com