



Varnish cache

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wf tech

Varnish cache

<https://varnish-cache.org>

Varnish Cache is a popular – and powerful – open source HTTP engine/reverse HTTP proxy.

Varnish Cache is a web application accelerator also known as a caching HTTP reverse proxy. You install it in front of any server that speaks HTTP and configure it to cache the contents. Varnish Cache is really, really fast.

Varnish performs really, really well. It is usually bound by the speed of the network, effectively turning performance into a non-issue

Came in two flavours



- Open-source Varnish-cache
 - BSD License
- Varnish Cache Plus
 - Payed with support

Varnish cache

started in 2005

Varnish cache v1.0 ~ 2006

Solves C10K problem



Compared to other programs

- started as dedicated accelerator
 - no https - use Hitch TLS proxy

- completely different approach to configuration
 - state machine

Very basic configuration

```
vcl 4.0;
```

```
backend default {  
    .host = "127.0.0.1";  
    .port = "8080";  
}
```

Very basic configuration

```
vcl 4.0;
```

```
sub vcl_recv {  
    if (req.url == "/favicon.ico") {  
        return (synth(404));  
    }  
}
```

Starting varnish

```
varnishd \  
-T localhost:6082 \  
-f /etc/varnish/default.vcl \  
-s malloc,256m \  
-S /etc/varnish/secret \  
-t 120
```


Request processing

state-machine

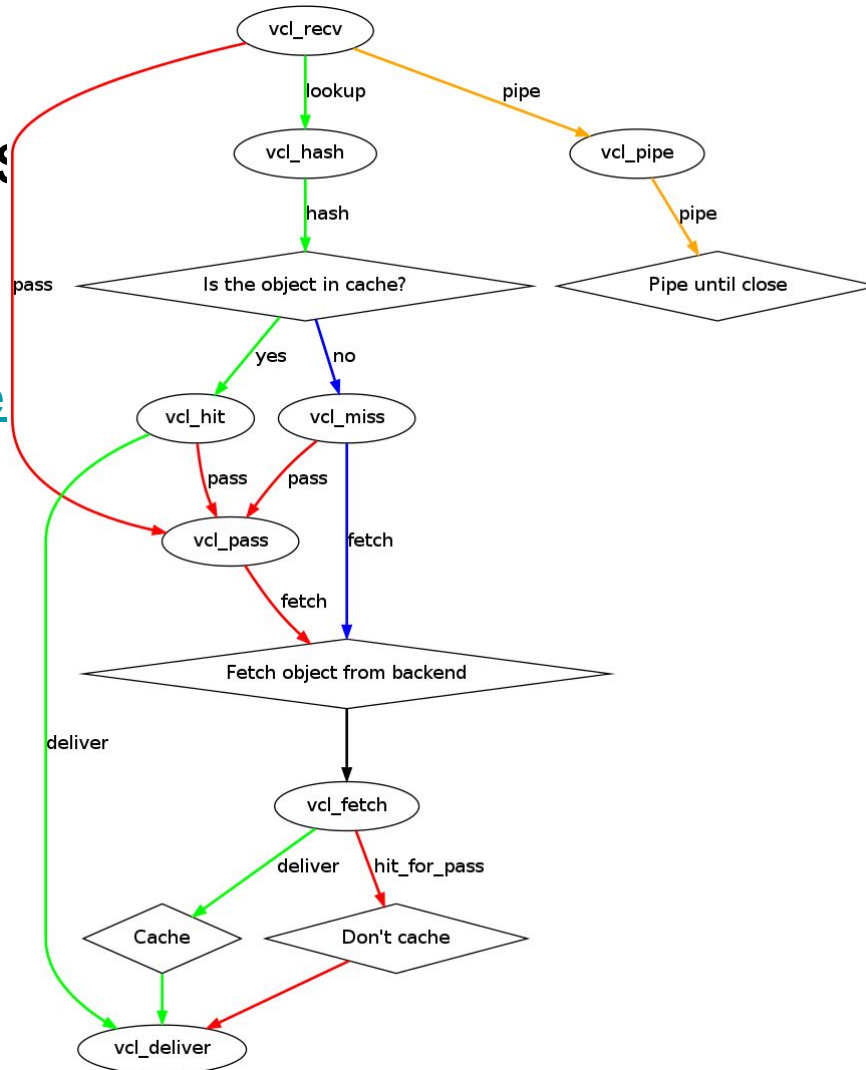
see <https://varnish-cache.org/docs/6.0/users-guide/vcl-built-in-subs.html>

Request process

state-machine

see <https://varnish-cache.org/>

[s.html](#)



Config updates

VCL replacement

`varnishadm`

```
vcl.load <name> vcl-program.vcl
```

```
vcl.use <name>
```

```
vcl.discard <name>
```

DEMO time!

Varnish logging

Logging and statistics to shared memory

`varnishlog`, `varnishncsa`

`varnishstat`, `varnishtop`

Our use cases

- caching slow PHP responses
 - badly behaving PHP scripts
- caching WordPress AJAX requests
- filtering bad requests with 410 gone

Katalog beletrie a odborné literatury

Vypůjčte si knihy v knihovně nebo najděte informace online

Zadejte hledaný dotaz, např. název knihy

 HLEDAT



[Pokročilé vyhledávání](#)



ČESKÉ KNIHOVNY

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Kieron Gillen, 1975-



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Renata Vrabelová, 1959-



Brno neviděné

Libor Teplý, 1955-

Víc než jen knihy



Informace o osobách

Základní údaje o autorech a dalších osobnostech



Mapy

Mapy a atlasy



Our use cases

- fixing SOLR responses
 - retry badly behaving queries

- caching SOLR responses
 - some responses took 1 seconds
 - some renses took 10 seconds

- load balancing between multiple SOLR servers
 - using consul + config rewriting