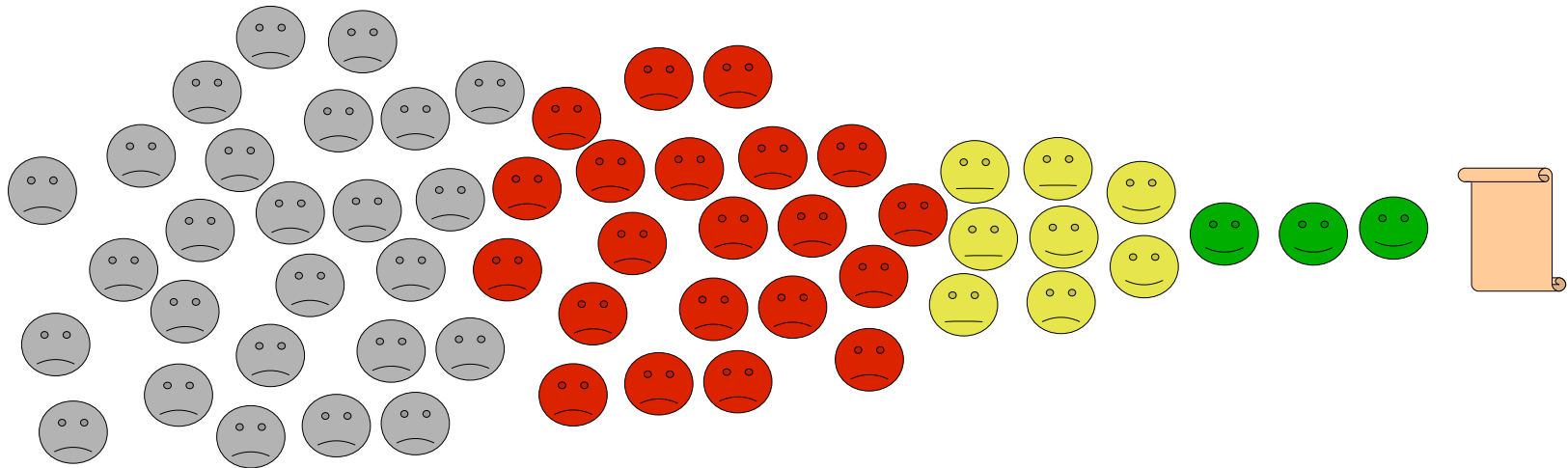


Large
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Serving Sites from Memory with
Perl, ~~≡~~ Nginx ~~≡~~ and memcached

Tim Goddard – Catalyst IT

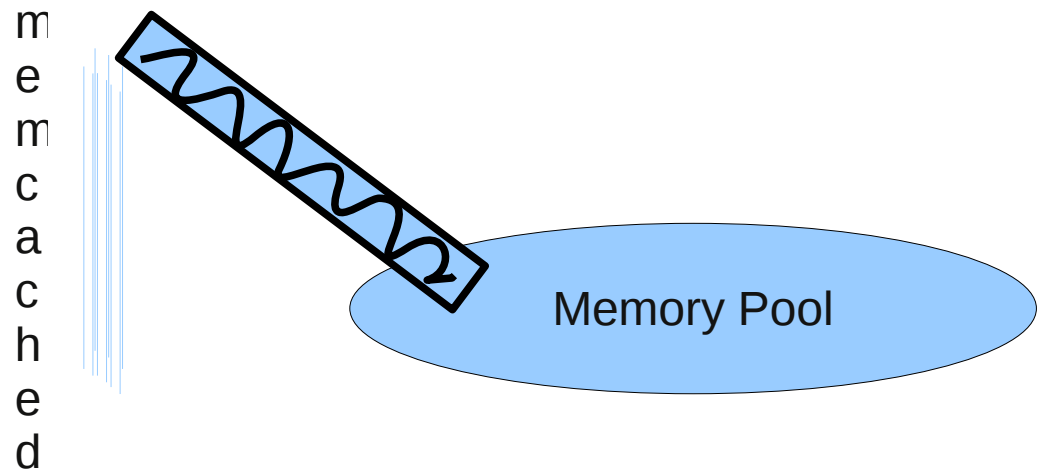
Why care?

- Creating web pages with Perl is slow
- High Load Sites => Minimise Cost per User
- Several possible solutions
- Caching to reduce cost/user



memcached

- Very fast in-memory cache
- A cache only – few guarantees
- Web hosts w/free memory
- Can cluster





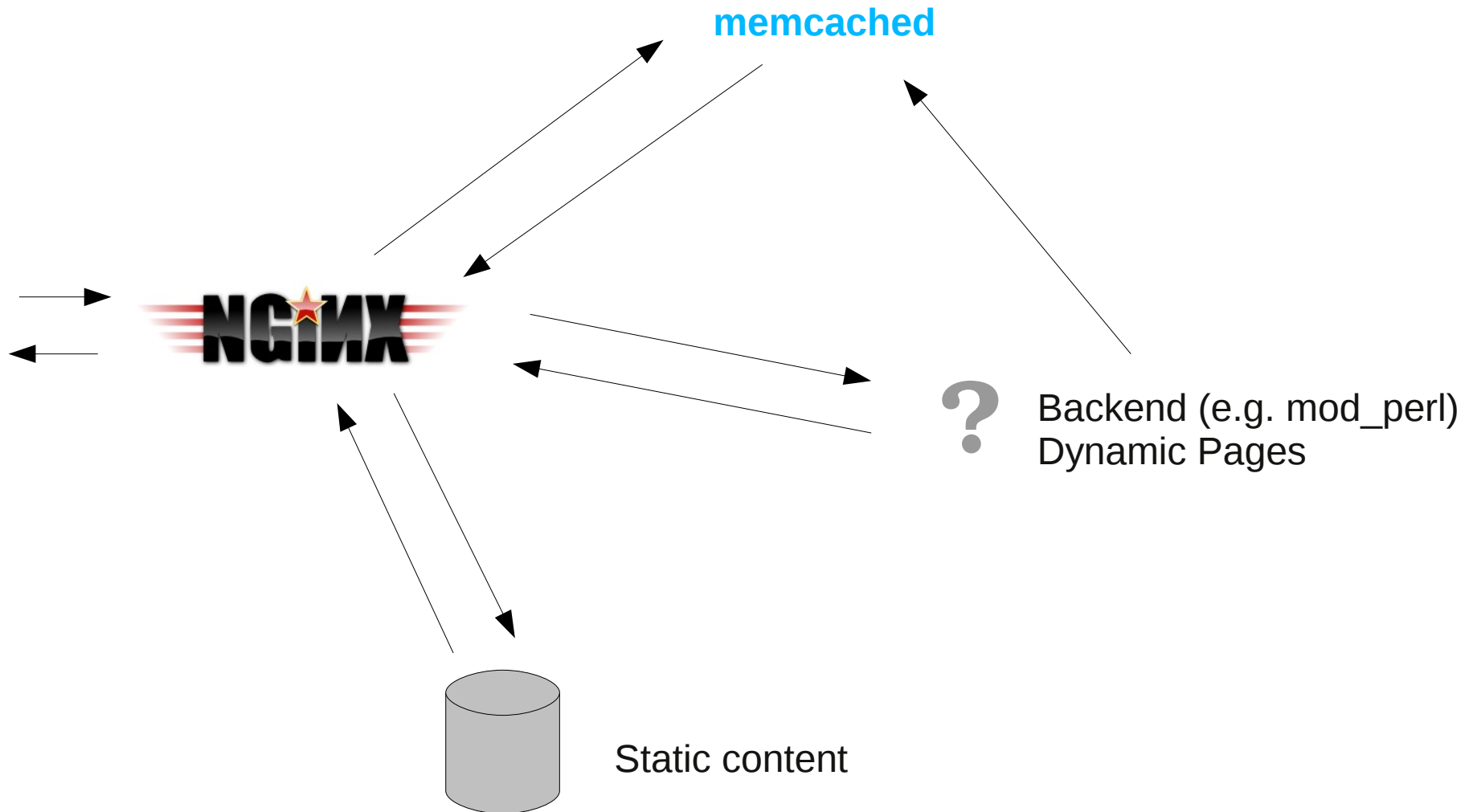
- State-of-the-art web server from Russia.
- Serves static files, dynamic backends.
- No CGI, mod_* - always proxies.
- Can handle thousands of simultaneous connections.
- Can extend with Perl – out of scope today.
- Insanely fast.

Serving Perl

- Perl can be served a bunch of ways.
- They're all annoying and slow.
- Not directly from nginx.
- Behind nginx - ProxyPass



Putting it together



Nginx likes to proxy

```
server {  
    server_name my.site.org;  
  
    listen 80;  
  
    location / {  
        proxy_pass http://localhost:81;  
        proxy_set_header Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
    }  
  
    location /static {  
        alias /usr/share/my-files/;  
    }  
}
```

Add a memcached pass

```
server {
    server_name my.site.org;

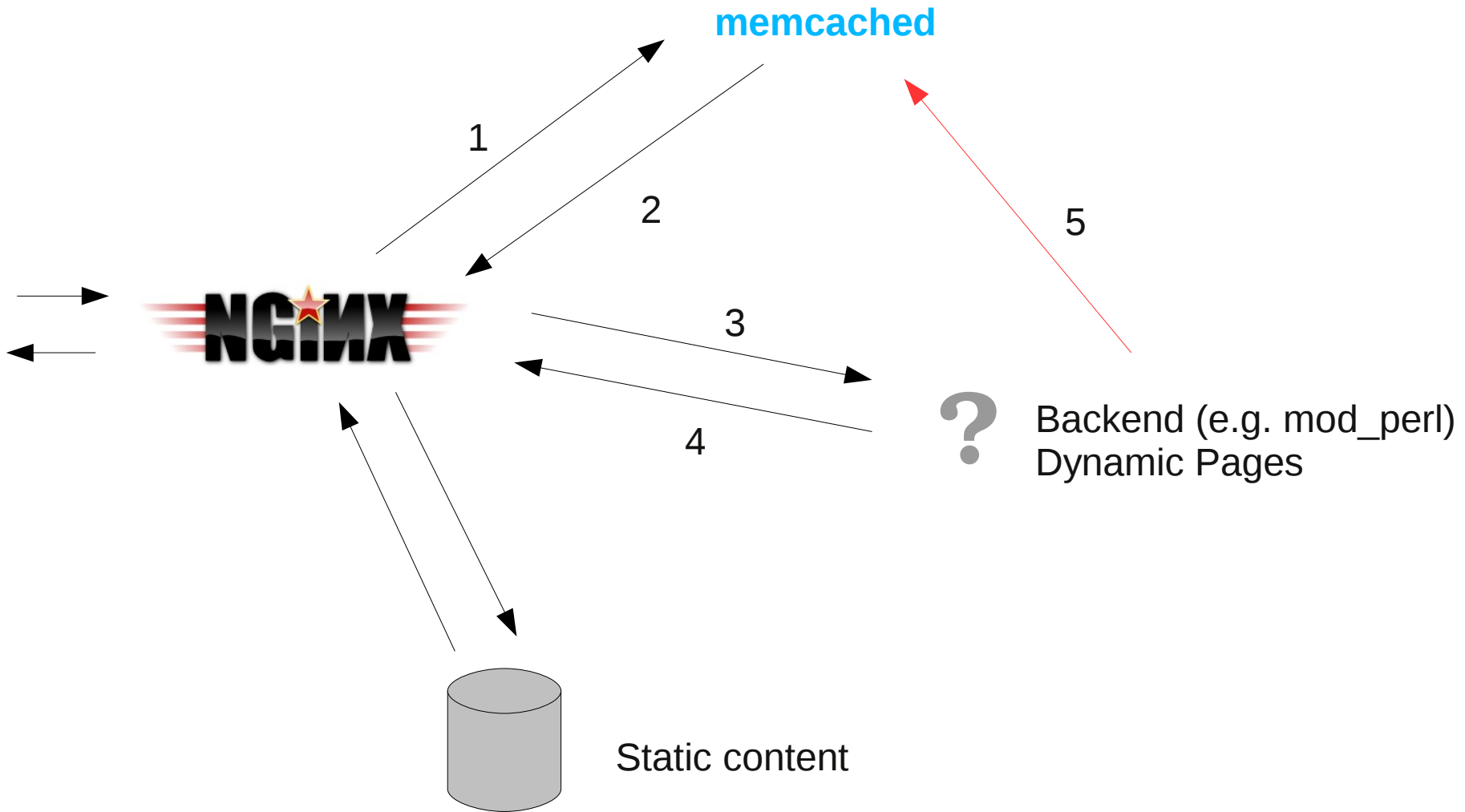
    listen 80;

    location / {
        set $memcached_key $uri;
        memcached_pass localhost:11211;
        default_type text/html;
        error_page 404 = /fallback;
    }

    location /fallback {
        proxy_pass http://localhost:81;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }

    location /static {
        alias /usr/share/my-files/;
    }
}
```


Where do they come from?



Advantages Abound

Set cache time in application at last minute

Can build the key however you like – could include a cookie.

Uncacheable content

But, but...

User sessions

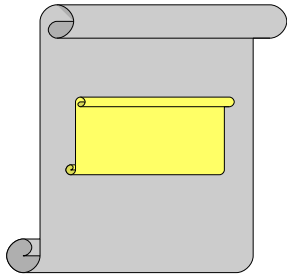
Expiry gap

Cluster/Ketama

Others?

Neat Things I Haven't Tried

SSI



Nginx/Perl

