

#failability

How to not Fail on Launch

Adam Malone

aka typhonus



<http://adammalone.net>



[@adammalone](https://twitter.com/adammalone)



drupal.org/user/1295980

about:me

- Client Advisory - Acquia APJ
- Created my first HTML site: 2009
- SSH'd into my first server: 2010
- Found out about Drupal: May 2011
- First core commit: Aug 2012 (Issue [#304540](#))

about:acquia

- Drupal as a Service
- Infrastructure, Support, Workflow
- Hosted on scalable managed AWS instances
- Centuries of combined knowledge

about:launches



Error

The website encountered an unexpected error. Please try again later.

How to fail on Launch

- The 'Double Jeopardy'
- The 'Bulletproof Glass'
- The 'Franken-Server'
- The 'Naked Gun'

The System is down at the moment.

We're working to resolve the issue as soon as possible. Please try again later.

Please include the reference ID below if you wish to contact us at 1-800-318-2596 for support.

Error from: https://www.healthcare.gov/marketplace/global/en_US/registration%23signUpStepOne

Reference ID: 0.cdd74f17.1380634949.2f9c301c



181 DAYS LEFT TO ENROLL

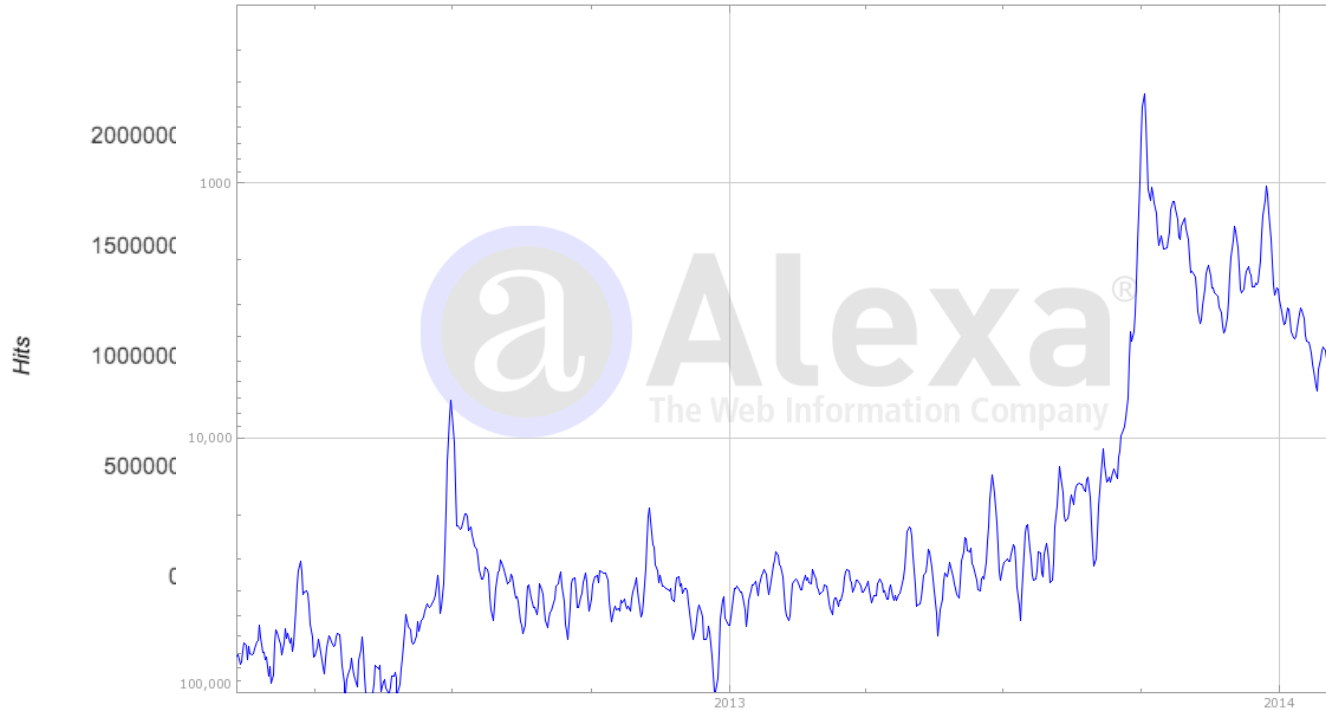
OCT 1 Open Enrollment Began

JAN 1 Coverage Can Begin

MAR 31 Open Enrollment Closes



healthcare.gov Problems



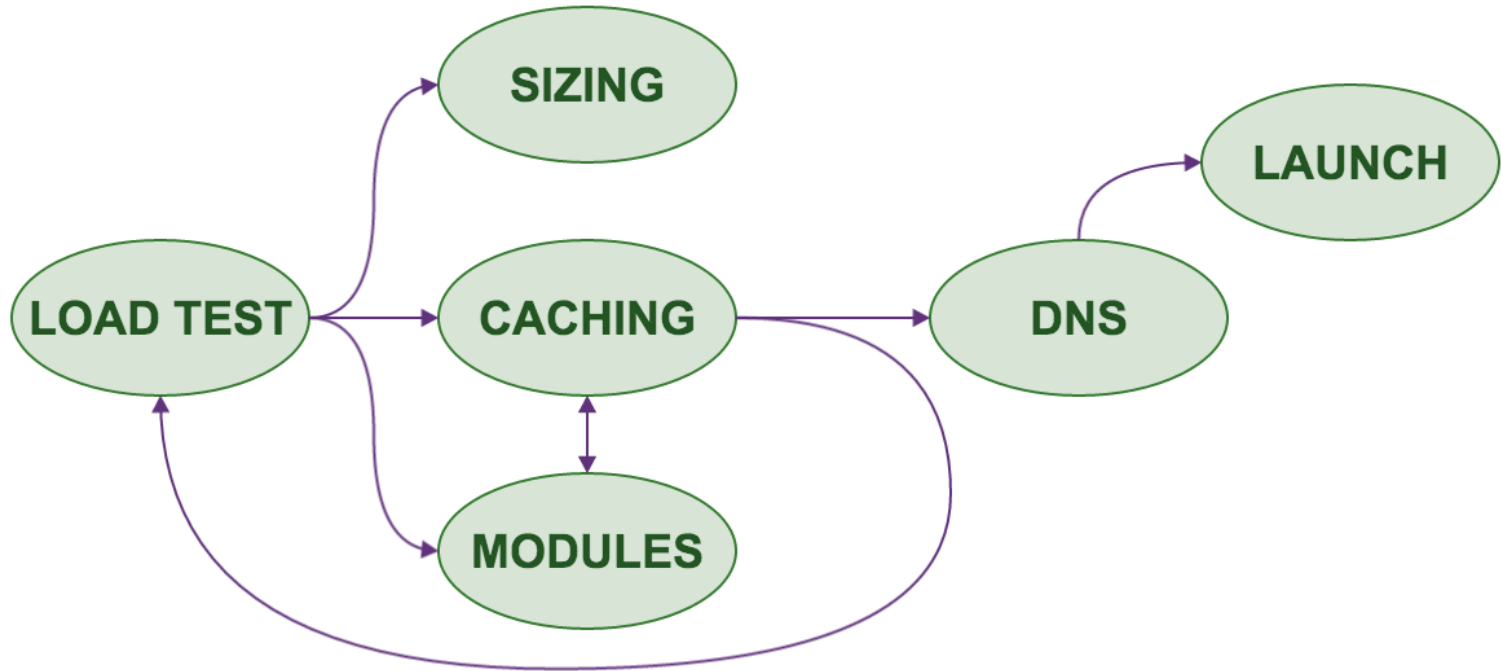
healthcare.gov Solutions

- More authenticated caching
- Staggered/phased roll-out
- Asynchronous signups/tasks
- Client-side processing
- Reduce Single Points of Failure

How to not Fail on Launch

- Size accurately
- Load test thoroughly
- Audit custom modules
- Use good caching strategies
- DNS
- Scotch

How to not Fail on Launch



Internal Server Error

The server encountered an internal error or misconfiguration and was unable to complete your request.

Please contact the server administrator, webmaster@dummy-host.example.com and inform them of the time the error occurred, and anything you might have done that may have caused the error.

More information about this error may be available in the server error log.

How to fail on Launch ...cont

- The 'Sleeping Beauty'
- The 'LOST'
- The 'General Custer'
- The '100 Years War'

Load Testing

- Use historical logs
- Break your site
- Tell your host
- Remove the need for changes near/during launch

Sizing

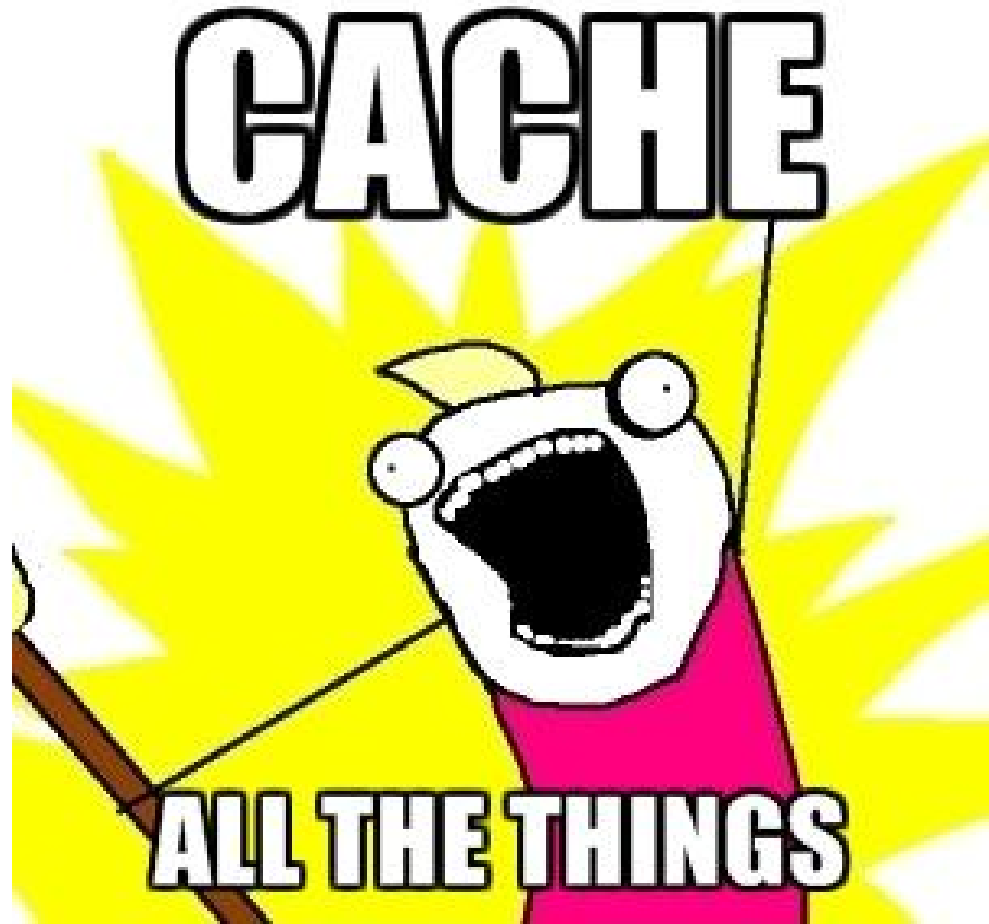
- Page views per month
- % Authenticated
- Docroots
- Memory limit
- PHP (FPM/CGI)

DNS

- Tell your host
- Drop the TTL before launch
- Use correct records

Caching

- External: Varnish/CDN
- Internal: Memcache/Redis
- Drupal Core
- Contrib





This webpage has a redirect loop

More

Reload

How to fail on Launch ...cont ...cont

- The 'Marty McFly'
- The 'Sell by date'
- The 'Spider bite'
- The 'One Ring to rule them all'
- The 'MacGuyver'

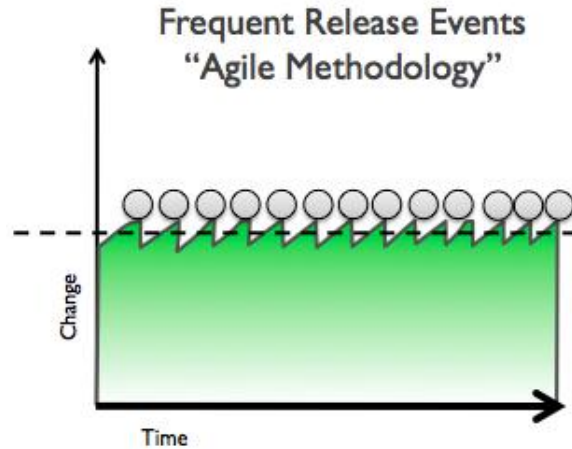
Module Anti-patterns

- `variable_set` every page load
- Setting sessions for anonymous
- `*_ui` / `dblog` / `statistics`
- Unnecessary functions - `*_load`
- External calls

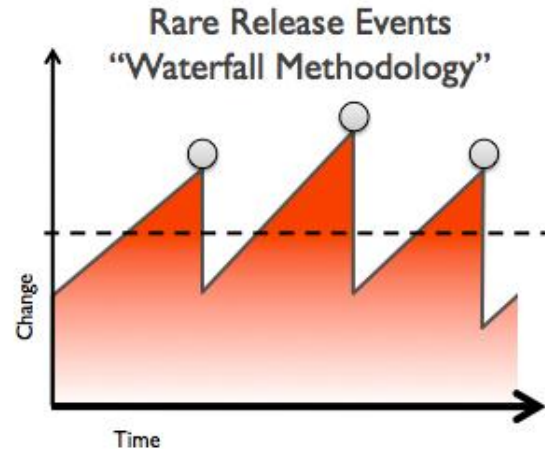
Scotch



How to not Fail after Launch



Smoother Effort
Less Risk



Effort Peaks
High Risk

Questions?

Resources

- Caching
 - [Varnish](#)
 - [Memcache](#)
 - [Redis](#)
 - [DynamoDB](#)
 - [Entity Cache](#)
 - [Views Cache Bully](#)
 - [Cache Audit](#)
 - [Variables that suck less](#)
- Static-ify
 - [httrack](#)
 - [boost](#)
- Scaling
 - [Stack Demo](#)
- Load Testing
 - [Blazemeter](#)
 - [jmeter](#)
 - [SOASTA](#)
 - [ab](#)
- Profiling
 - [XDebug](#)
 - [XHProf](#)
- Launch
 - [Checklist](#)
- Scotch
 - [Any good bottle shop](#)