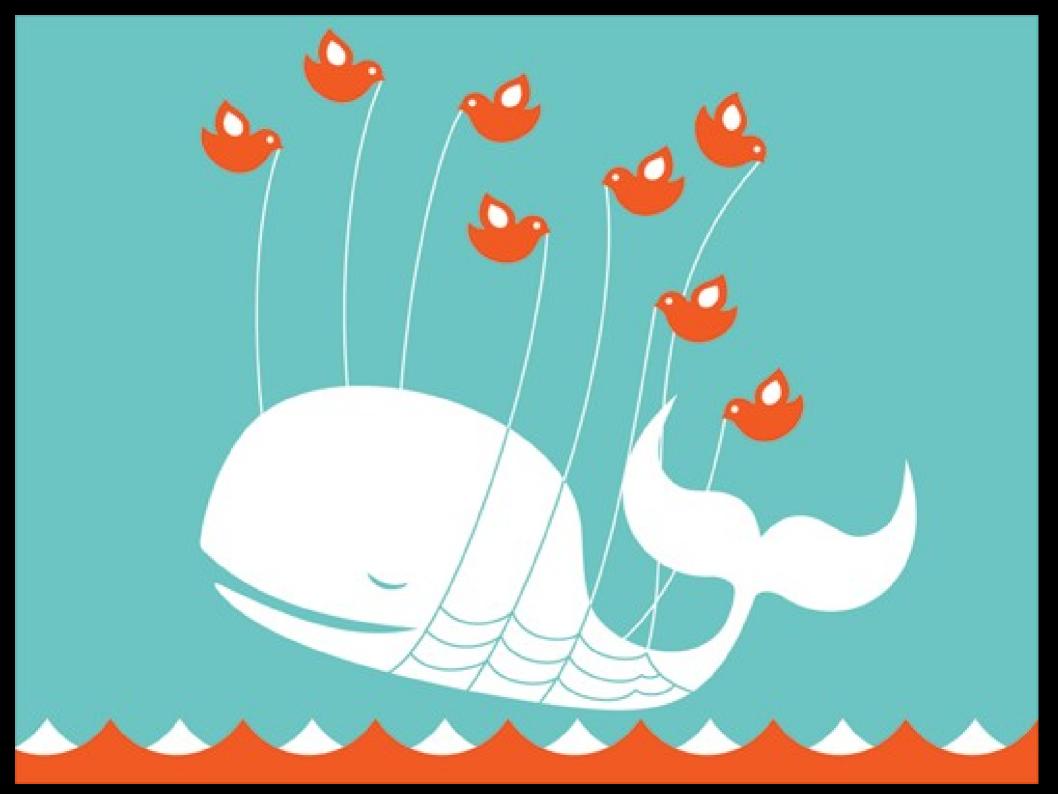
Scale Fail

or, how I learned to stop worrying and love the downtime





We'll be back shortly

We may have forgotten to feed the wild Tumbeasts that roam our datacenter, which often results in unexpected downtime due to gnawing and/or mutiny. Animal control has been alerted.

Downtime is

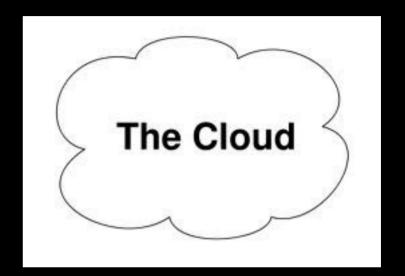
Sexy



1. Be Trendy











PROGRAMMING

what's hot new controversial top saved



Be one with your servers. Cloudkick developer account: all features unlocked for 1 server, free

forever. (cloudkick.com)

promoted by cloudkick

69 comments share save hide

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 - submitted 5 hours ago by ast
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- submitted 15 hours ago by elder_george
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- ZeroOne: the editor for programmers who think in binary (secretgeek.net)
- submitted 4 hours ago by gst
- 2 comments share save hide report



Resource Monitoring **Performance Testing** Traffic Monitoring **Load Testing Tuning Analysis**

Let History Be Your Guide

- Was database to slow last time?
 - The database is too slow this time.
- Did the network cards fry last time?
 - They're frying this time.
- Did Apache choke on memory leaks last time?
 - It's Apache this time.
- Fixed things by using queues at your last job?
 - Then fix them with queues at this job!

Barn Door Troubleshooting



Parallel Programming



Don't Worry About It Programming



How to Single-Thread Your Code

- Locks, Locks, Locks!
- Ignore scope and memory address space
- Frequently-updated single-row table
- Master Control Server process
- Single Master Queue
- Blocking threads which wait while checking on a remote data source

The Old Way: Caching

Connection Caching Pool DB

Data Cache

App Server

App

Server

Object Cache

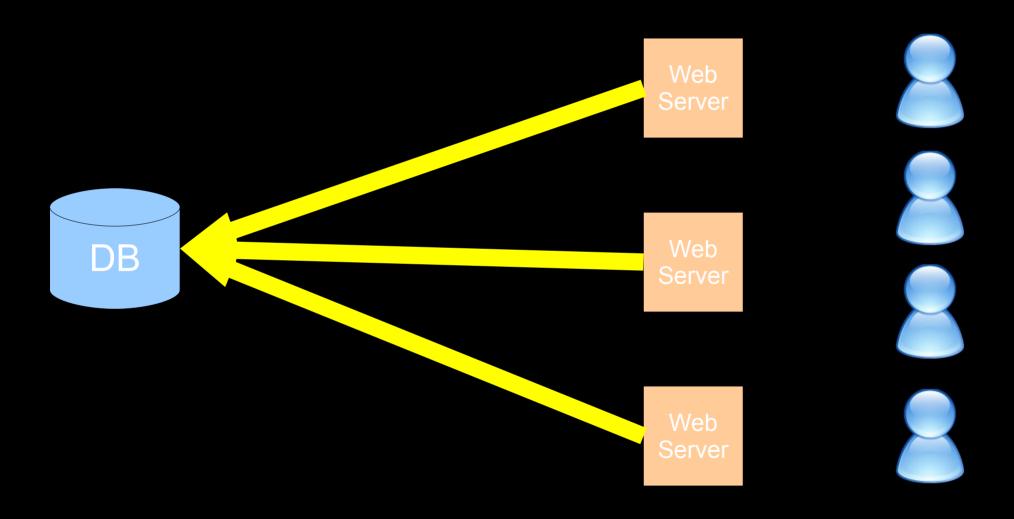
App Server







The New Way: Direct2DB



Easy to Scale

- Web servers
- Caches
- Shared-nothing hosts
- Simple App Servers

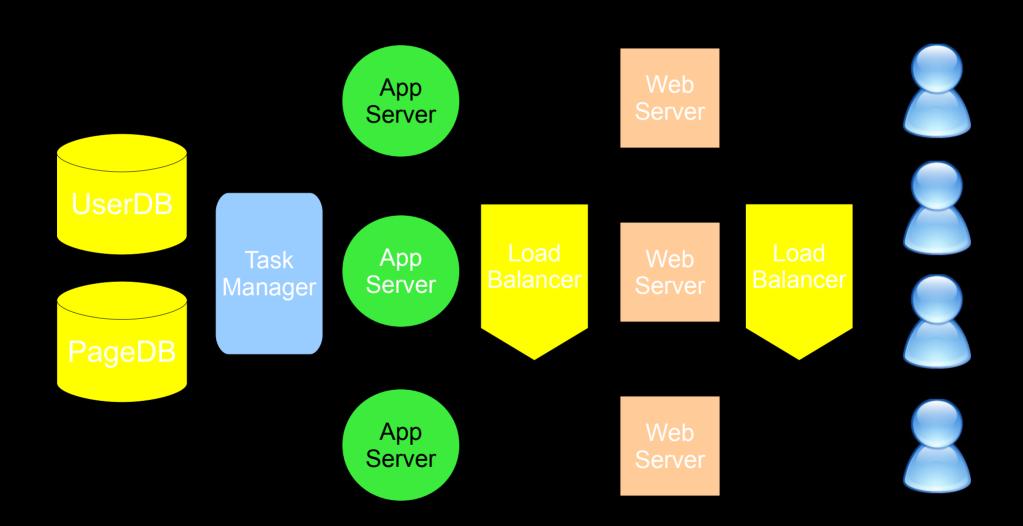
For Wimps!

Hard to Scale

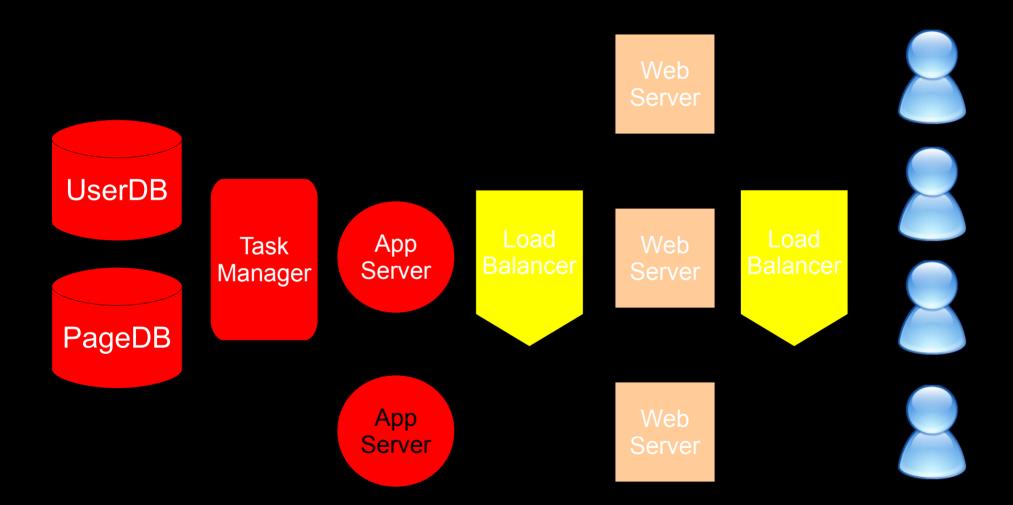
- Databases
- Queues
- Shared Filesystems
- Web Frameworks

For Real Developers!

Single Point of Failure



Cascading Failure



Be Sexy:

sexy elevator muzak



first floor

Go Down!