



# Drizzle

## Integrating Drizzle

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# Drizzle Overview

- What is it?
- Plugins!
- Installing
- Starting



# What is Drizzle?

A lightweight SQL database  
for the “cloud” and web



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Plugins are the new black



# Pluggable Protocol

- MySQL Protocol (3306)
- Drizzle Protocol (4427)
- Console Plugin
- HTTP/REST?
- Postgres Protocol?



# Drizzle Protocol

- We killed little bobby tables
- Packet header sharding key
- Support HTTP-like redirect
- Concurrent queries



# libdrizzle

- Multi-protocol support
- MySQL, Drizzle
- Both Client and Server parts of the protocol
- Have PHP, Python, Perl and Ruby already
- Oh, and it's BSD, so use it anywhere



# Pluggable Scheduler

- Mutli Threaded
- Pool of Threads
- Single Threaded
- Platform Specific?



# Pluggable Authentication

- None
- PAM
- LDAP
- HTTP
- `authenticate(user, pass)`



# Pluggable Authorization

- None
- LDAP
- Hard-coded policy
- `restrictSchema()`
- `restrictTable()`
- `restrictProcess()`



# Pluggable Query Cache

- None
- Local memory
- memcached
- NDB



# Pluggable Query Filter

- Rewrite/block queries
- Rewrite queries for tuning
- (Anybody seen MySQL Proxy)
- `rewrite(schema, query)`



# Pluggable Logging

- None
- query\_log
- gearman
- Syslog
- user\_statistics
- pre(session)
- post(session)



# Pluggable Errors

- stderr
- notify
- syslog?
- `errmsg(session, priority, format, *args)`



# Pluggable Function

- md5()
- memcached\_\*
- gearman\_\*
- rot13()



# Pluggable Replication

- Google Protocol Buffers
  - Java
  - Python
  - C++
- Replicator
- Applier
- Reader



# Pluggable Data Dictionary

- INFORMATION\_SCHEMA
- Other table functions



Um. So how do I run it?



# Install

- From apt:
  - In Debian unstable
- Launchpad PPA
  - `sudo apt-get install python-software-properties`
  - `sudo add-apt-repository ppa:drizzle-developers/ppa`
  - `sudo apt-get update`
  - `sudo apt-get install drizzle`



# Install

- From RPM:
  - <http://drizzle.org/wiki/RPMInstallation>



# Install

- From source:
  - `./configure ; make ; make install`
  - No bootstrap step
  - No system tables



# Startup

```
drizzled --datadir=/my/data/path
```



# Plugins

- apt-get install drizzle-plugin-pbxt
- Enabled at startup
  - --plugin-add=md5,pbxt



# Get Involved!

- <http://drizzle.org>
- <https://launchpad.net/drizzle>
- #drizzle on [irc.freenode.net](http://irc.freenode.net)