

# Gearman

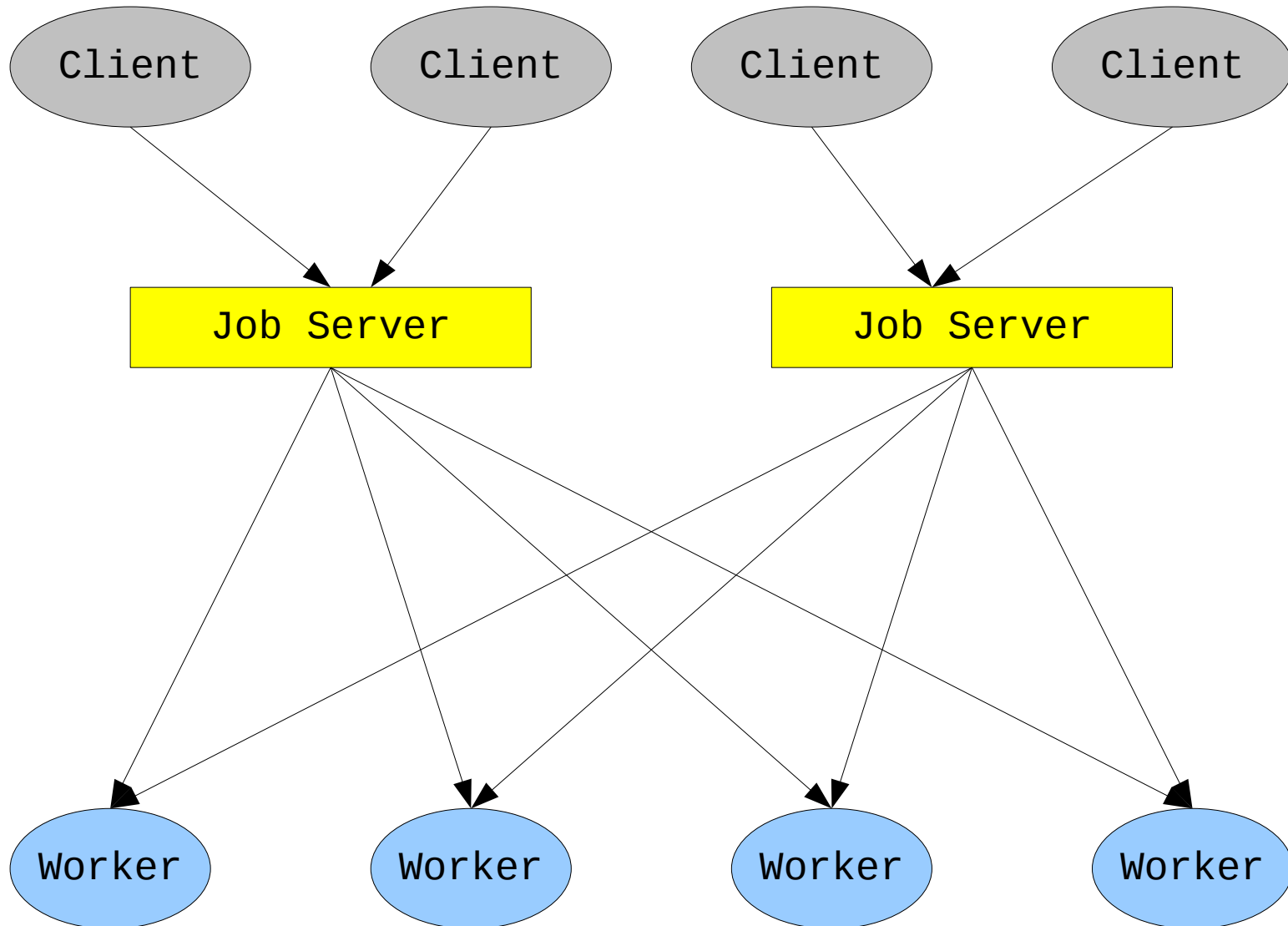
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<http://gearmanproject.org/>

# History

- Danga
- LiveJournal/SixApart
- Digg
- Yahoo
- PHP Extension Added
- Now, C server & library

# Gearman Componentnets



# Client Example

```
#!/usr/bin/perl

use Gearman::Client;

my $client = Gearman::Client->new;
$client->job_servers('127.0.0.1');
my $tasks = $client->new_task_set;
my $handle = $tasks->add_task(reverse => "open sql camp", {
    on_complete => sub { print ${ $_[0] }, "\n" }
});
$tasks->wait;
```

# Worker Example

```
#!/usr/bin/perl
```

```
use Gearman::Worker;
```

```
my $w = Gearman::Worker->new();  
$w->job_servers('127.0.0.1');  
$w->register_function(reverse => sub { reverse $_[0]->arg; });  
$w->work while 1;
```

# Running

Install Gearman related packages from CPAN

```
lap> gearmand &  
[1] 13573
```

```
lap> ./reverse_worker &  
[2] 13574
```

```
lap> ./reverse_client  
pmac lqs nepo  
lap>
```

# What's missing?

- Persistent queue
- Using persistent queue for replication/backup
- Scheduled job queue (think cron)
- Improved event notification
- Results being returned in chunks
- Dynamic code upgrades in cloud environment
- All of these are currently being implemented

# Map/Reduce in Gearman

