

rainup

with grid power
comes great responsibility

Too many questions,
too little time

Mythbusters can't
answer everything,
sadly :(

Can't we all be friends?

Been there, done that...

BOINC

neuGRID

World Community Grid

Reinvent the Road

(not the wheel)

“I’m not Skynet. I promise.”

– RainUp Central Server

Why Erlang?

Fast Prototyping

Fast Prototyping

```
~/Sources/erlang/

Multi-thread pi calculator

-module(dpl).
-export([main/1, worker_pi_calc/0, server_pi_calc/4]).

pi_calc(0, Part, Sign, Denom) ->
    Part;

pi_calc(Step, Part, Sign, Denom) ->
    MyPart = Part + (Sign / Denom),
    %io:format("~n (~w) MYPART: ~w = ~w + ~w / ~w ~n",[self(), MyPart, Part, Sign, Denom]),
    pi_calc(Step - 1, MyPart, -Sign, Denom+2).

calc_denom(0, Denom) ->
    Denom + 2;

calc_denom(Step, Denom) ->
    %io:format("~nWorker here! Range ~w ResultDenom ~w ~n",[Range, Denom]),
    ResultDenom = Denom + 2.


--:--dpl.erl      Top (12,35)      (Erlang)-----
```

```
--:--qbt.erl      Top (15,32)      (Erlang)-----
    ResultDenom = Denom + 2;
    %io:format("~nWorker here! Range ~w ResultDenom ~w ~n",[Range, Denom]),
    ResultDenom = Denom + 2.
```

How it Works

RainUp Central Server

RainUp Central Server

A white rounded square icon with a thin white border, containing the text "RainUp Server" in white.

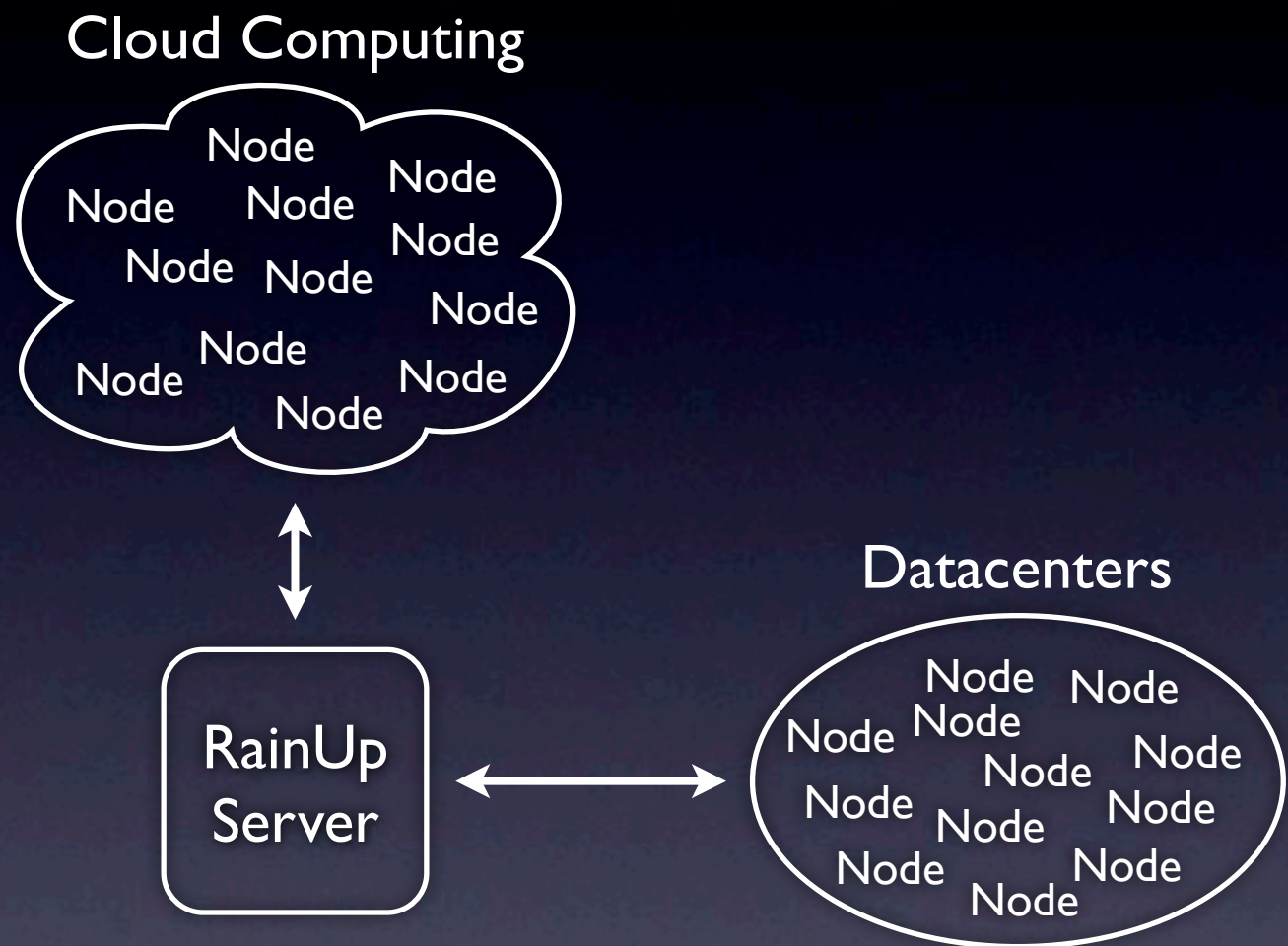
RainUp
Server

Nodes

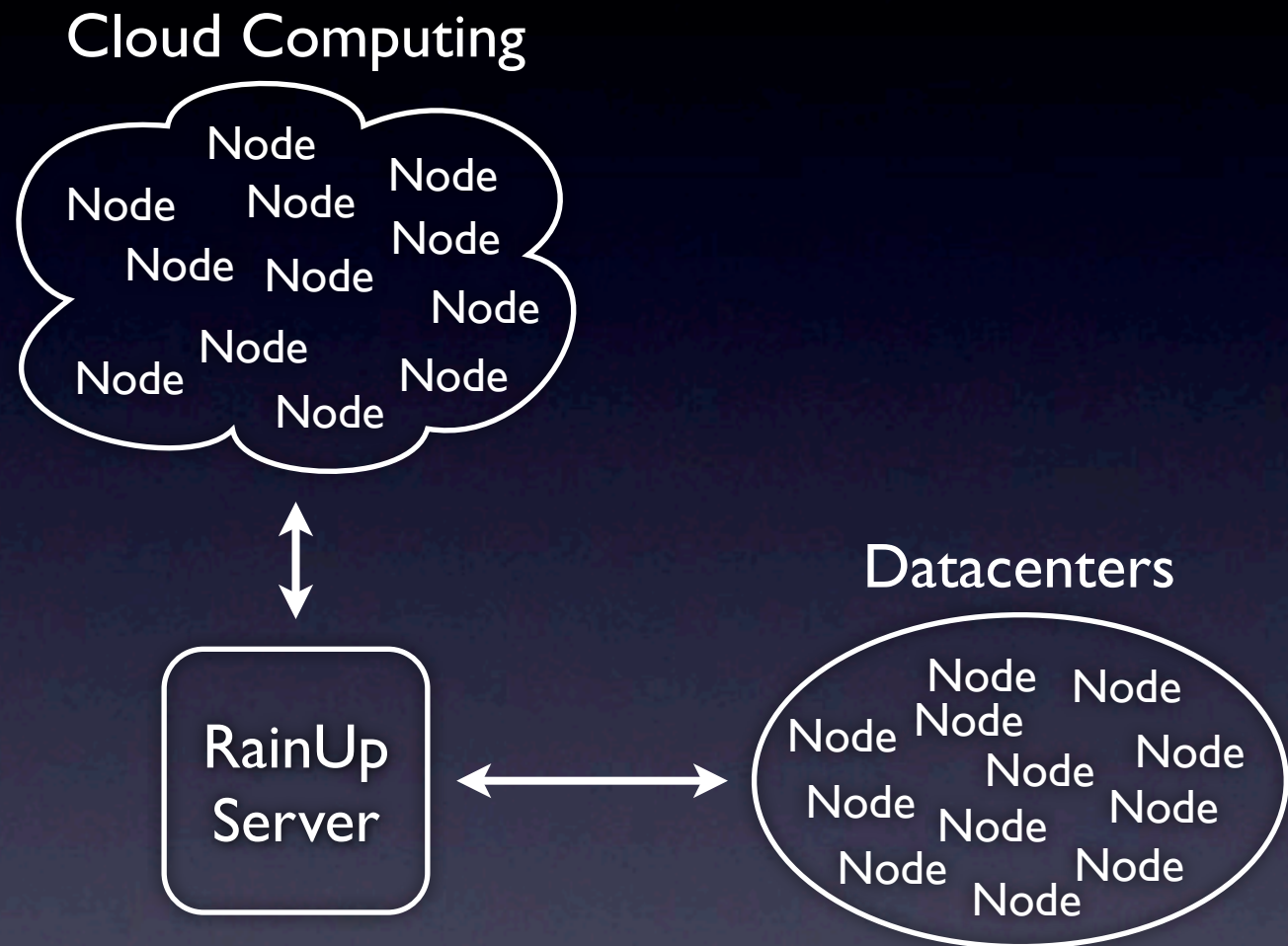
A white rounded square icon with a thin white border, containing the text "RainUp Server" in white.

RainUp
Server

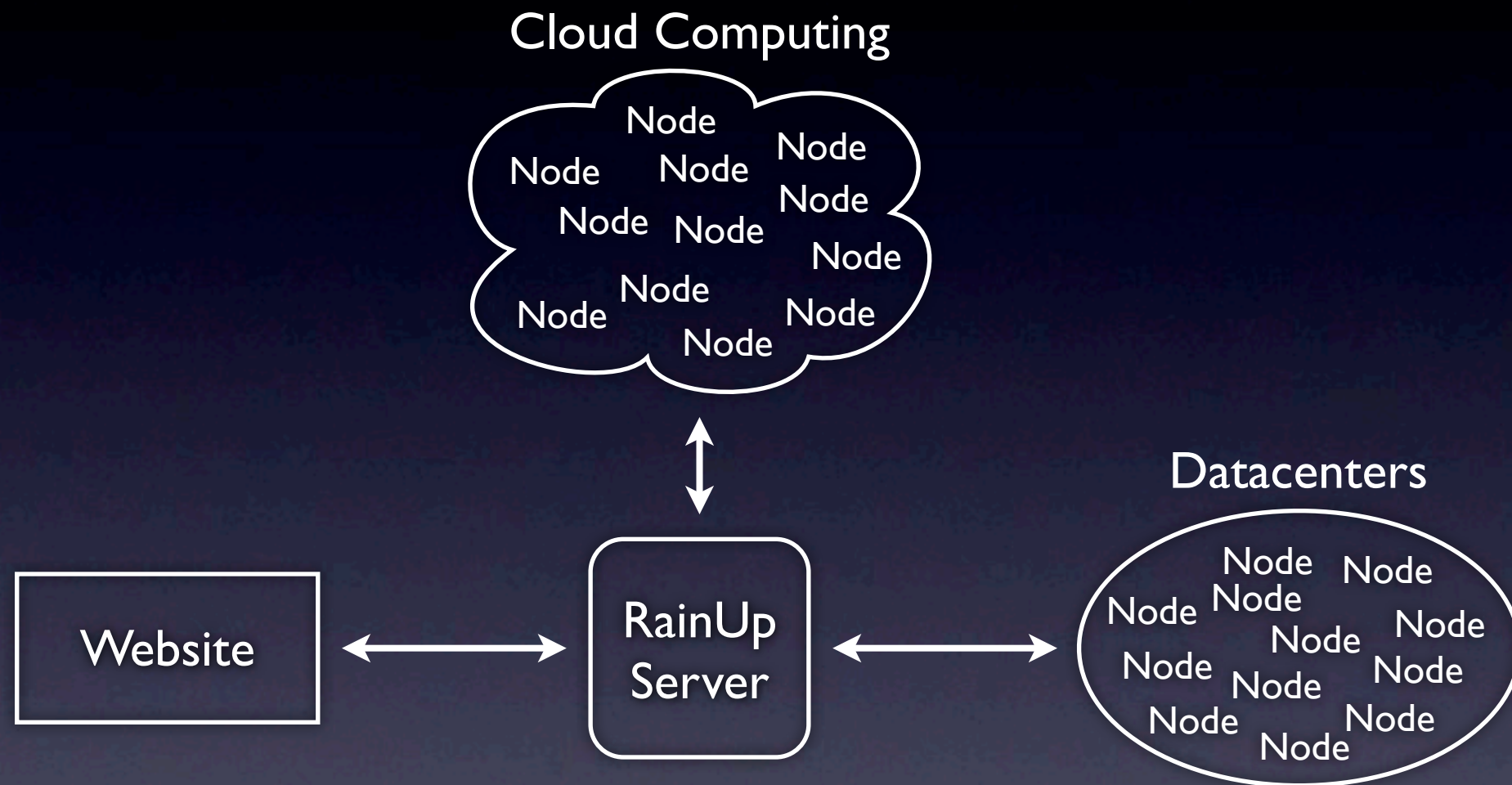
Nodes



Website



Website



Innovative & Interactive Webservice

rainup
do the impossible

32,439
nodes are working to solve
The Ultimate Question

estimated time till solution
10 months, 2 days

The Ultimate Question

When asked to produce The Ultimate Question, the computer says that it cannot; however, it can help to design an even more powerful computer (the Earth), that can. The programmers then embark on a further ten-million-year program to discover The Ultimate Question. [More »](#)

Help us pay the bills

You can help us pay for processing nodes to speed up the time required to solve The Ultimate Question. [More »](#)

\$80

Donate

Your donation will help us pay for
40 nodes
(1 node = \$0.10 / hour)

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User Engagement

- Problem selection voting
- Virtual rewarding

CSR: Corporate Social Responsibility

RainDrops

the first light-weight distributed computing
& advertising platform

RainDrops

rainup
do the impossible

32,383
active nodes are solving
The Ultimate
Question

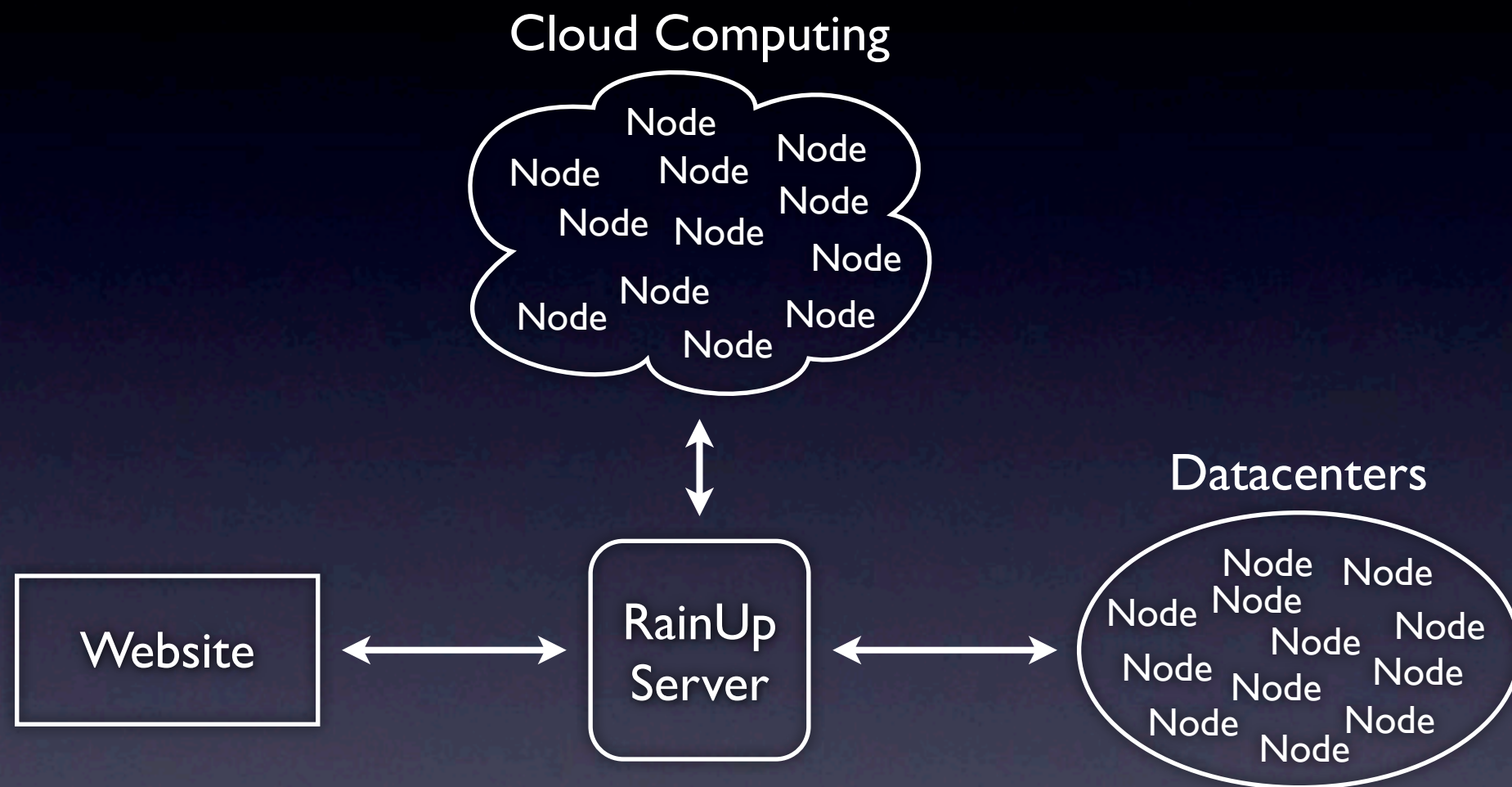
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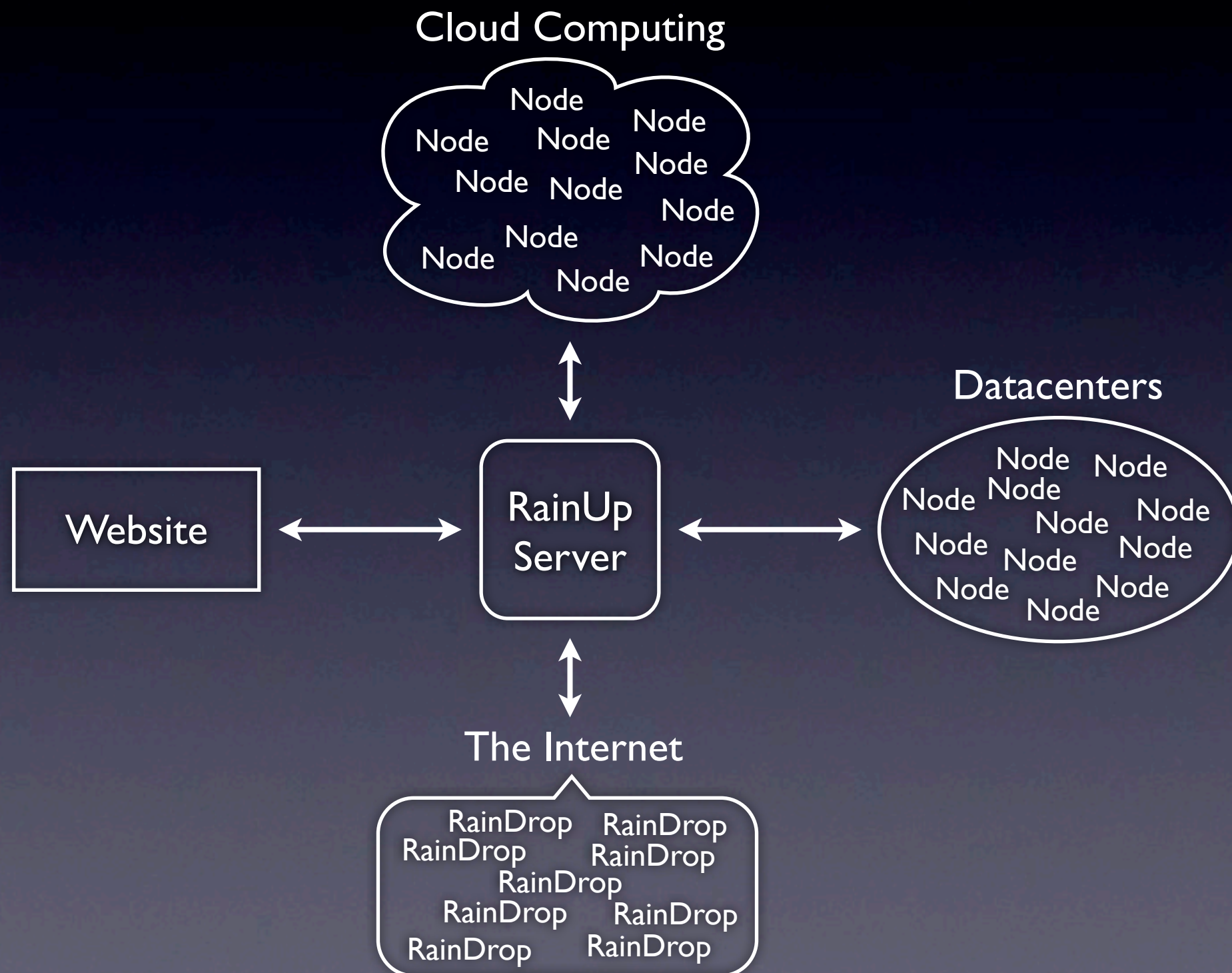
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building bridges

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Upcoming Conferences

London 2009

Past Conferences

SF Bay Area 2009
Erlang eXchange 2008

Featured Speaker

London 2009



Joe Armstrong
Father of Erlang

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London Erlang Factory, June 2009



University: June 22nd - June 24th
Conference: June 25th - June 26th

The Erlang factory in London is shaping-up to be an amazing gathering! There are so far 35 confirmed speakers from four continents who will be showcasing Erlang. This is rivalling the number who were at the Palo Alto Factory! We are proud to have speakers from all sides of Erlang and functional programming: including **Joe Armstrong** and **Bjarne Dacker** who were involved in the birth of Erlang, **Kenneth Lundin**, the current head of the Erlang/OTP Development Team at Ericsson in Stockholm, **Simon Peyton-Jones** from Microsoft and **Mark Imbriaco** from 37signals. There are also Erlang users from the US, India and across Europe who will speak about why and how they are using Erlang, as well as developers who have produced varied and interesting Erlang tools and apps. Amongst these are **Chris Anderson** and **Jan Lehnardt** who have been instrumental in the development of CouchDB - the document-oriented database. There will be a virtual **CouchDB** track on the Friday of the factory that will allow delegates to focus on this increasingly popular database.

The Erlang Factory in Palo Alto - a resounding success!



Almost 120 delegates and speakers attending what was the largest gathering of Erlang Expertise ever in the US and the second largest in the world to date after last year's Erlang Exchange in London.

A total of 35 talks were delivered by 38 speakers and track hosts in the two days. Each day had three separate tracks and the main complaint from delegates was the difficulty in deciding which of the tracks to attend.

Videos of most of the talks and the presentations are available at **Speakers**, for those who could not attend, or delegates who were faced with a difficult choice. Just click on the Speaker and view the video or download the presentation.

The Erlang Factory moves to London in the last week of June 2009. If you missed it in Palo Alto - come and experience the Speakers, training courses and networking in London!

News

The Erlounge at the Erlang Factory will be open, not only to delegates from the Erlang Factory, but also to others who are interested in Erlang. Members of the London Erlang-User group are especially welcome. Attending is free, but to allow us to plan, non-conference

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The Answer Is: 42

What questions should be answered?

The RainUp WorldWide Alliance

“If we all work together, we can make a difference.”

Cultivating the Scientific Mindset

Phases

Phase I: Funding & Hardware

Phase I: Funding & Hardware

- Find sponsors.
- Get companies and universities involved.
- Push out the first version of RainUp Server, Nodes, RainDrops, and Website.
- Start working on new algorithms.

Phase 2:

Solve our first Problem

Phase 2: Solve our first Problem

- Hold a public poll to choose the first problem to solved.
- Solve the chosen problem.
- Start testing RainDrops.

Phase 3:

Scale to Infinity

Phase 3: Scale to Infinity

- Establish The RainUp WorldWide Alliance.
- Aim for infinite cloud nodes.

Can this be done?

Seriously,
can this be done?!

Thanks for watching.

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www.rainup.org