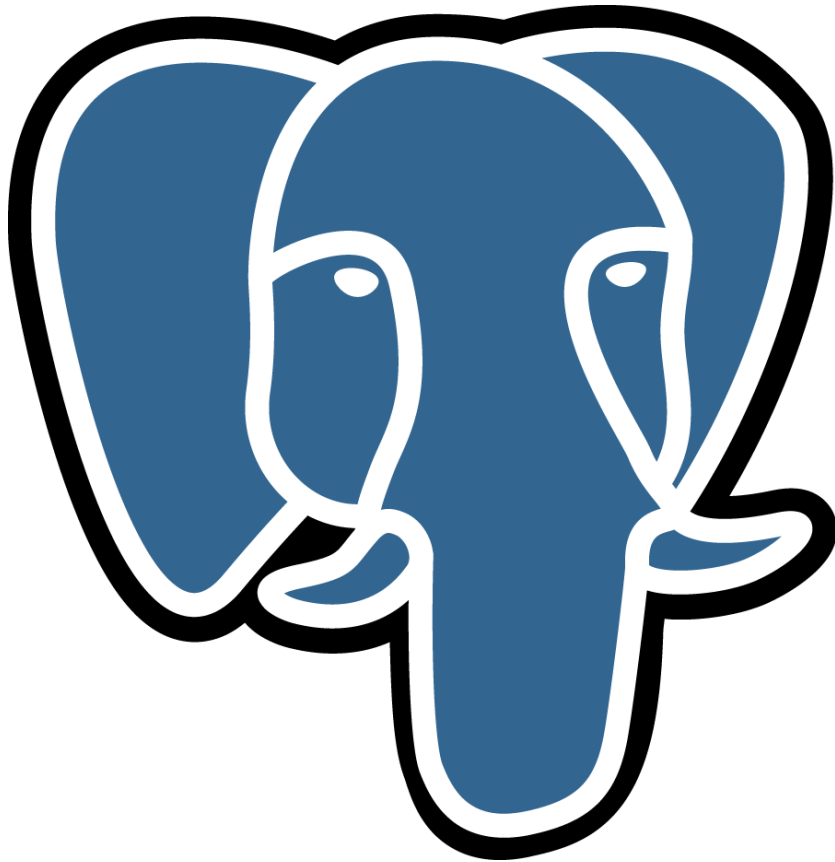


PostgreSQL

the postgresql.org infrastructure



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Agenda

- Infrastructure?
- Facts and figures
- Webservices
- Operational aspects
- The future

A marketing problem?

-sysadmins is like -core it's just that -core is doing their "secret stuff" in public ...

... -core is listed on the website but figuring out who is the sysadmin team and how to contact them is way more difficult

German core member on IRC

Infrastructure - why?

- Infrastructure - wth?
 - cvs, website, wiki, mailinglists – something else?
- services
 - pugs, pgfoundry, wwwmaster, wiki
 - anoncvs, git hosting, dns, monitoring
 - web and ftp-mirrors, ftp-master
 - archives, pmt, jabber, pgweb
 - development hosts
 - planet

Who?

- pgfoundry team (gforge, project approval, support)
- web weam (website and webservice)
- sysadmin team (servers, monitoring, operations)
- Subteams (translation, commitfest,...)

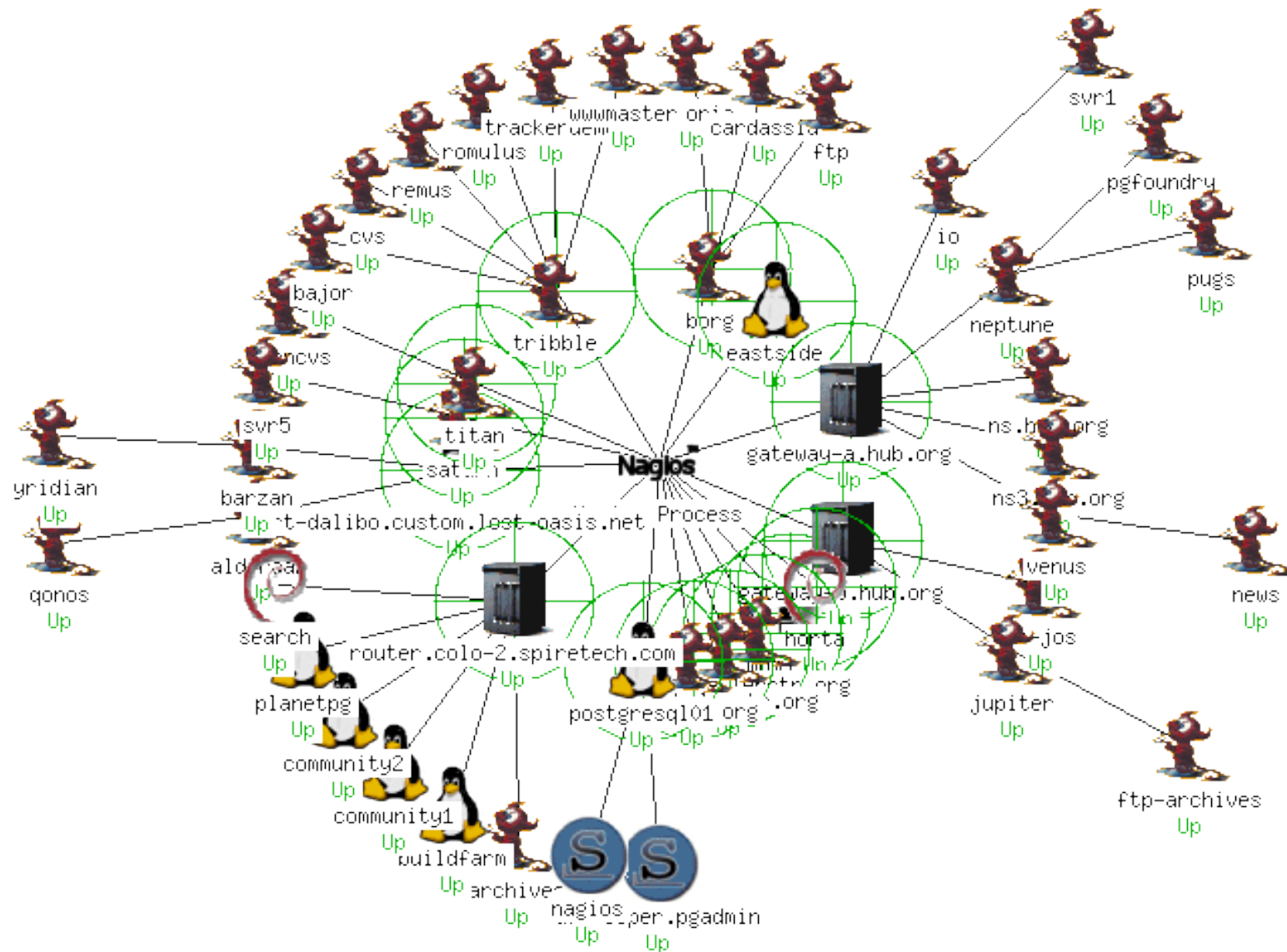
Agenda

- Infrastructure?
- **Facts and figures**
- Webservices
- Operations
- The future

Facts and figures

- ~60 Hosts (~75% community managed)
- 400 Service
- FreeBSD, Debian, Ubuntu, Slackware, CentOS, Redhat Enterprise Linux, VMware Server
- Austria, Canada, France, Israel, Panama, Sweden, USA

Facts and figures



Agenda

- Infrastructure?
- Facts and figures
- **Webservices**
- Operations
- The future?

The website

- <http://www.postgresql.org> - static
- <http://wwwmaster.postgresql.org> - dynamic master
- subversion repository 3-4 active committers
- PHP with PostgreSQL backend
- hourly snapshots & replication
- Interfaces for news, events, feature matrix, doc comments, mirror management, community login

Webservices

- git.postgresql.org – Python/Django
 - git community project hosting
- planet.postgresql.org – Python/Django
 - Blog aggregation
- wiki.postgresql.org – PHP/Mediawiki
 - The wiki :)
- commitfest.postgresql.org – Perl
 - PostgreSQL release management *reloaded*

www.postgresql.org – the bad stuff

- Synchronisation issues, replication delays
- release coordinierung
- PHP and subversion
- source layout and code historic codebase
- complex framework
- user account integration

www.postgresql.org – the good stuff

- Very robust and reliable
- Very low requirements for the mirrors
- hosts can be added/removed very quickly
- fast
- scalable

Agenda

- Infrastructure
- Facts and figures
- Webservices
- **Operations**
- The future?

Operations

- Nagios 3
- Smokeping
- Munin
- Trac Dokumentation, (internal) tickets
- coordination IM and Mailinglists
- internal tools (change tracking,...)

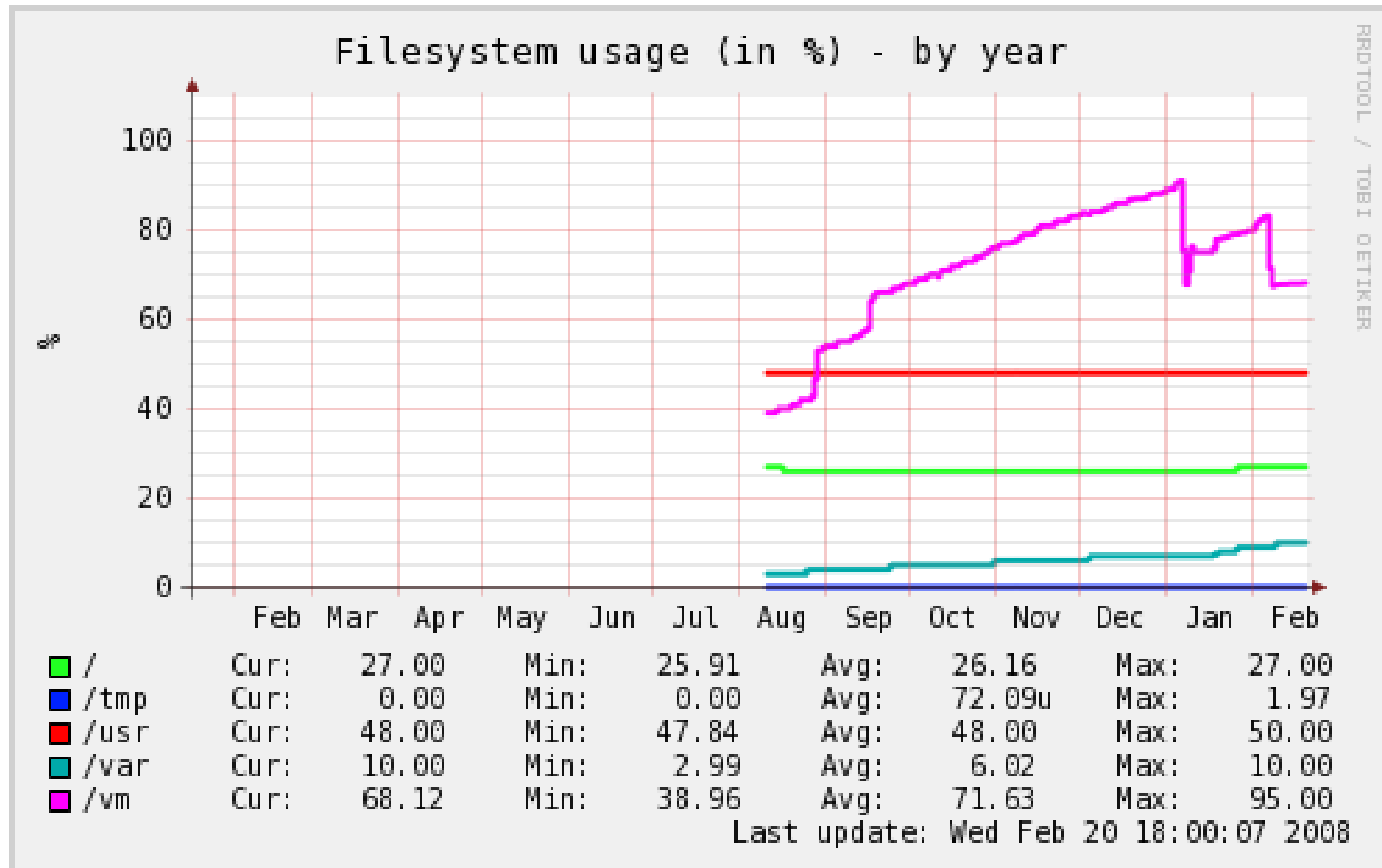
Operations

- FreeBSD jails
- 2-8 Jails/Host
- Nagios + NRPE
- Munin/Smokeping
- Custom developed checks (hardware checks, pg specific tasks, security updates)
- Rant: freebsd-update(8) needs “check/report”

Operations – the bad stuff

- widely diverse hardware
- “remote hands”
- zoo of operating systems
- timezones
- network issues/notification
- “my servers/my services”

Operations



Agenda

- Infrastructure
- Facts and figures
- Webservices
- Operations
- **The future?**

The future?

- Central user management
- HTTPS Support
- automatic deployment & documentation
- more marketing in the community
- FreeBSD 7.x
- Getting faster and more reliable
- DNS/mailing lists

Danke

- Infrastructure is boring stuff but...

... any questions

