



Open Source Monitoring

Icinga Team

Munich | Monitoring Workshop

06/13/2012

WWW.ICINGA.ORG

Agenda

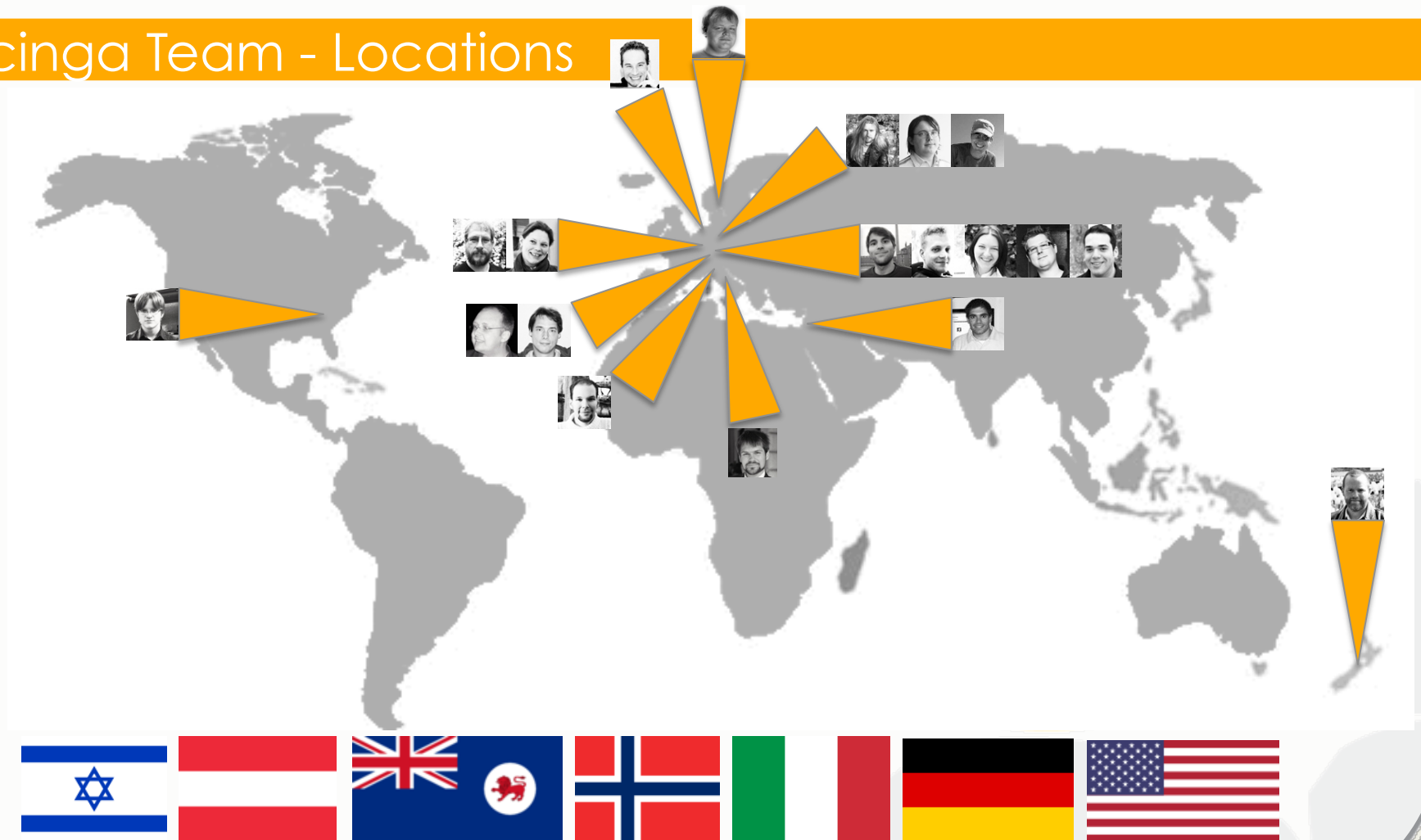
- ▶ Introduction
- ▶ Tools and Platform
- ▶ Icinga vs. Nagios
- ▶ Architecture
- ▶ New in Icinga
- ▶ Current Development
- ▶ Live Demo
- ▶ What's next
- ▶ Roadmap
- ▶ Questions & Answers

Introduction

Statistics

- ▶ Forked from Nagios in April 2009
- ▶ Over 200.000 downloads until now
- ▶ Different teams with independent responsibilities
 - ▶▶ Icinga Core
 - ▶▶ Icinga Web
 - ▶▶ Icinga Reporting
 - ▶▶ Icinga Marketing
 - ▶▶ Icinga Q&A
- ▶ 25 “active” members on the team

Icinga Team - Locations



Team



Tools and Platform

Icinga Quality, Testing and Community Support

Website and Open Source Ticketing System

Icinga Core

C based source
MySQL, PostgreSQL and Oracle

IDOUtils

FUTURE

NRPE and NSCA

Icinga Web

based on PHP
using Sencha,
Agavi MVC

Mobile

Icinga Doc

based on
Docbook in
English and
German

Icinga Reports

based on
Jasper Reports

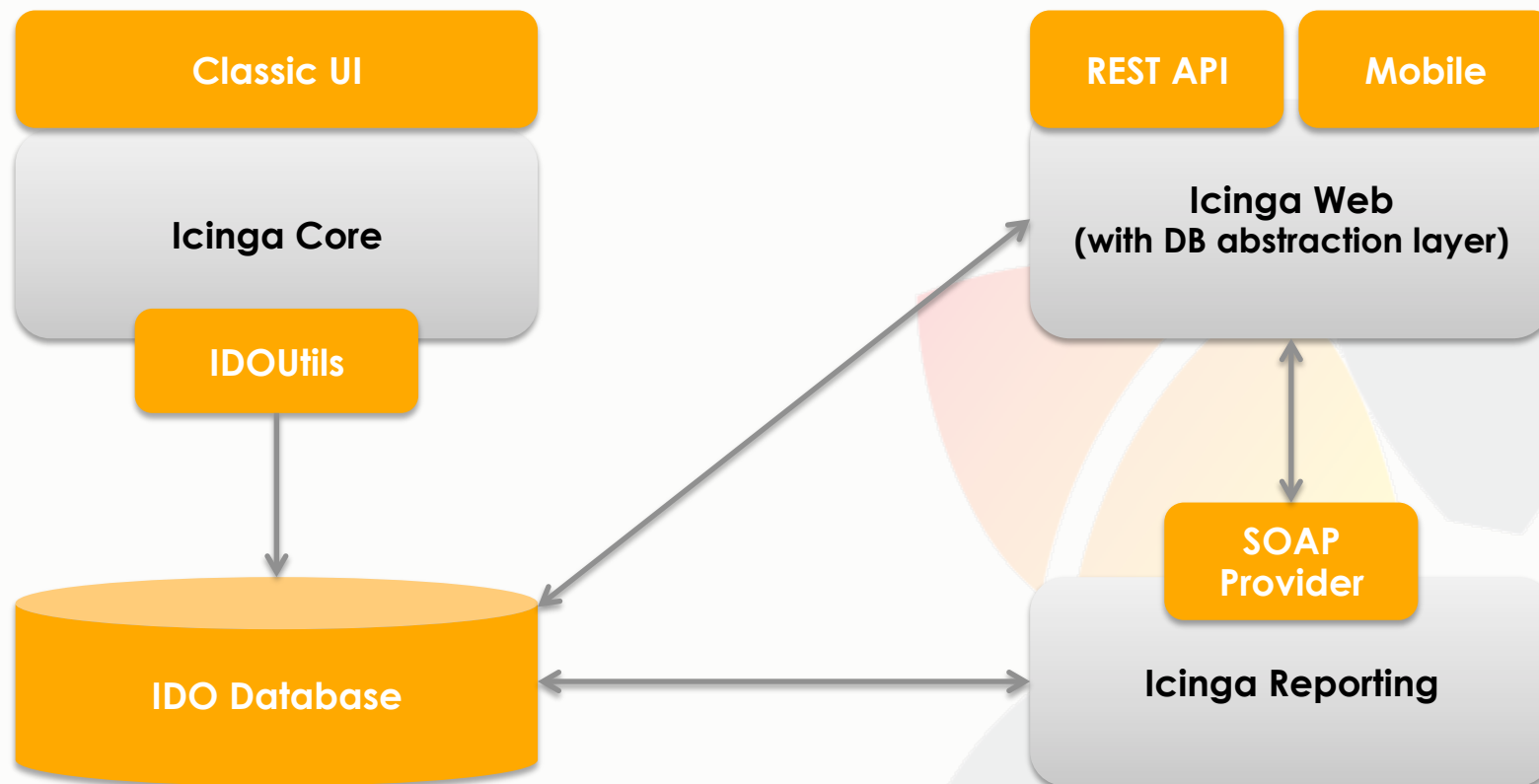
Icinga vs. Nagios

...

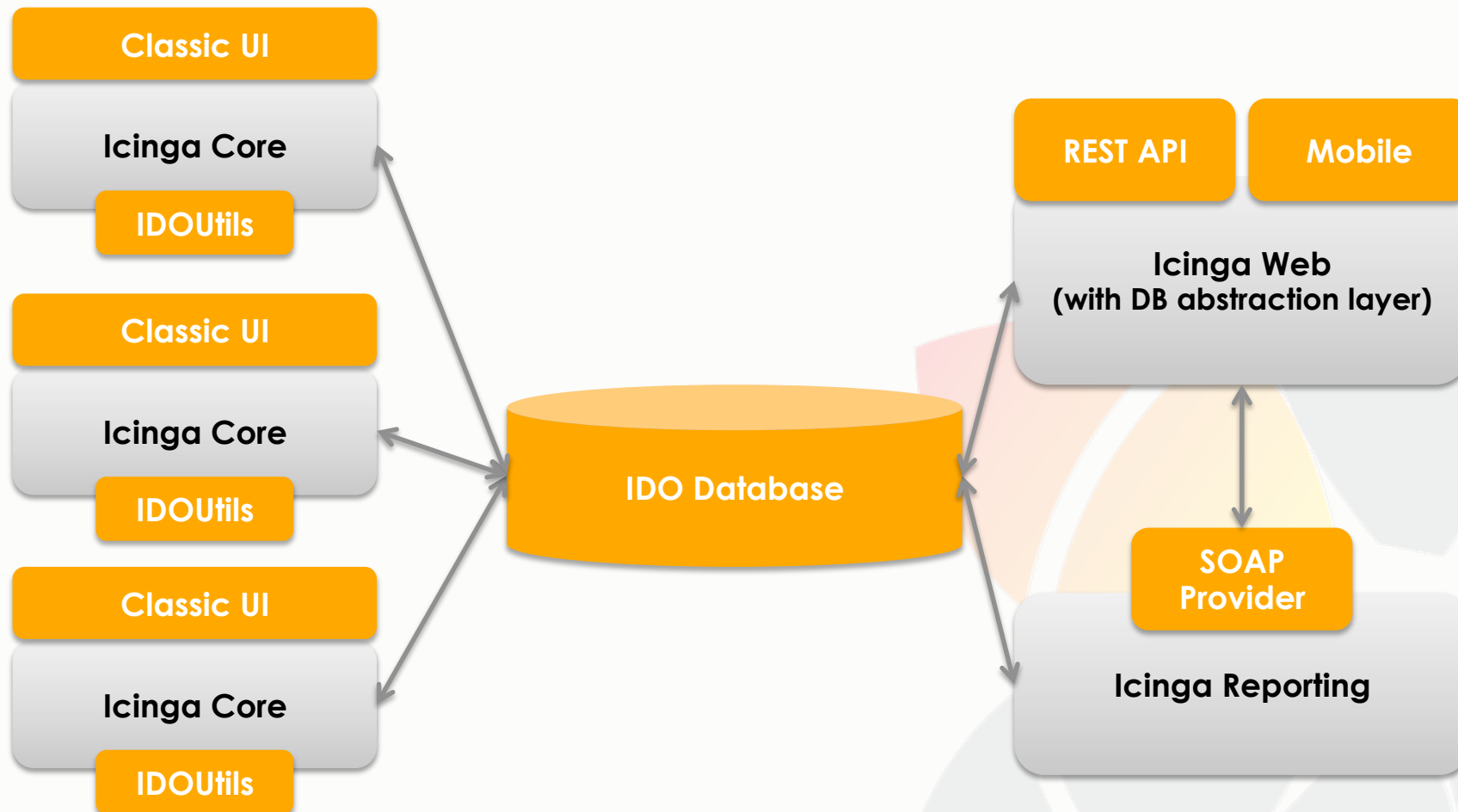
Why

Why

Architecture



Architecture Distributed



Personally

<bernd>

Database performance

- ▶ serial database-write-performance slower
 - ▶ YES ~ 5% slower
- ▶ serial database-read-performance slower
 - ▶ YES ~ 15% slower
- ▶ random database-read-performance slower
 - ▶ NO ~ **900% faster**

Database stability

- ▶ Database stable ?
 - ▶ **YES**
- ▶ Knowledge needed ?
 - ▶ **YES**

MySQL Tips

- ▶ use InnoDB
- ▶ use MySQL 5.5
 - ▶ Performance
 - ▶ atomic Operations
 - ▶ InnoDB-Background-Threads
- ▶ disable query cache
- ▶ `innodb_flush_log_at_trx_commit = 0`

Personally

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New in Icinga - Core

- ▶ Acknowledgement with expiry time
- ▶ Dualstacked IPv6 support
- ▶ Extended logging capabilities
- ▶ Object configuration for modules
- ▶ Notifications for stalked hosts and services
- ▶ Handling of perfdata with empty results
- ▶ Enhanced performance (e.g. in notification logic)

New in Icinga - Classic UI

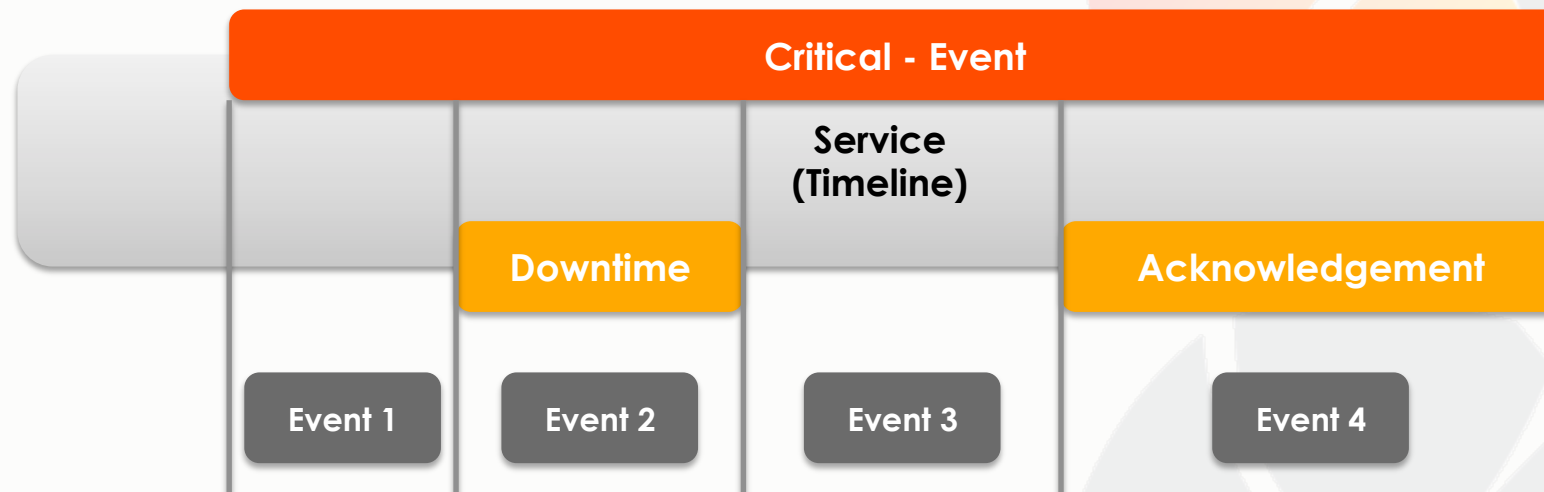
- ▶ Acknowledgement of blocking outages
- ▶ Advanced RegEx search
- ▶ Various improvements in navigation
- ▶ Advanced data export
 - ▶ JSON
 - ▶ CSV
 - ▶ XML
- ▶ Logfile search supported via webinterface
- ▶ Maintenance view for hosts and services in downtime

New in Icinga - IDOUtils

- ▶ Optimized check result processing
- ▶ Timezone awareness using UTC
- ▶ Improved Oracle support
 - ▶ CLOBs for outputs
 - ▶ Advanced table creation script
- ▶ Automatic db-version check
- ▶ Various improvements in housekeeping

New in Icinga - IDOUtils

- ▶ SLA Extension
 - ▶ Improved event aggregation
 - ▶ Extended database model
 - ▶ Extended IDO2DB logic
 - ▶ Base for future reporting implementation



New in Icinga - Documentation

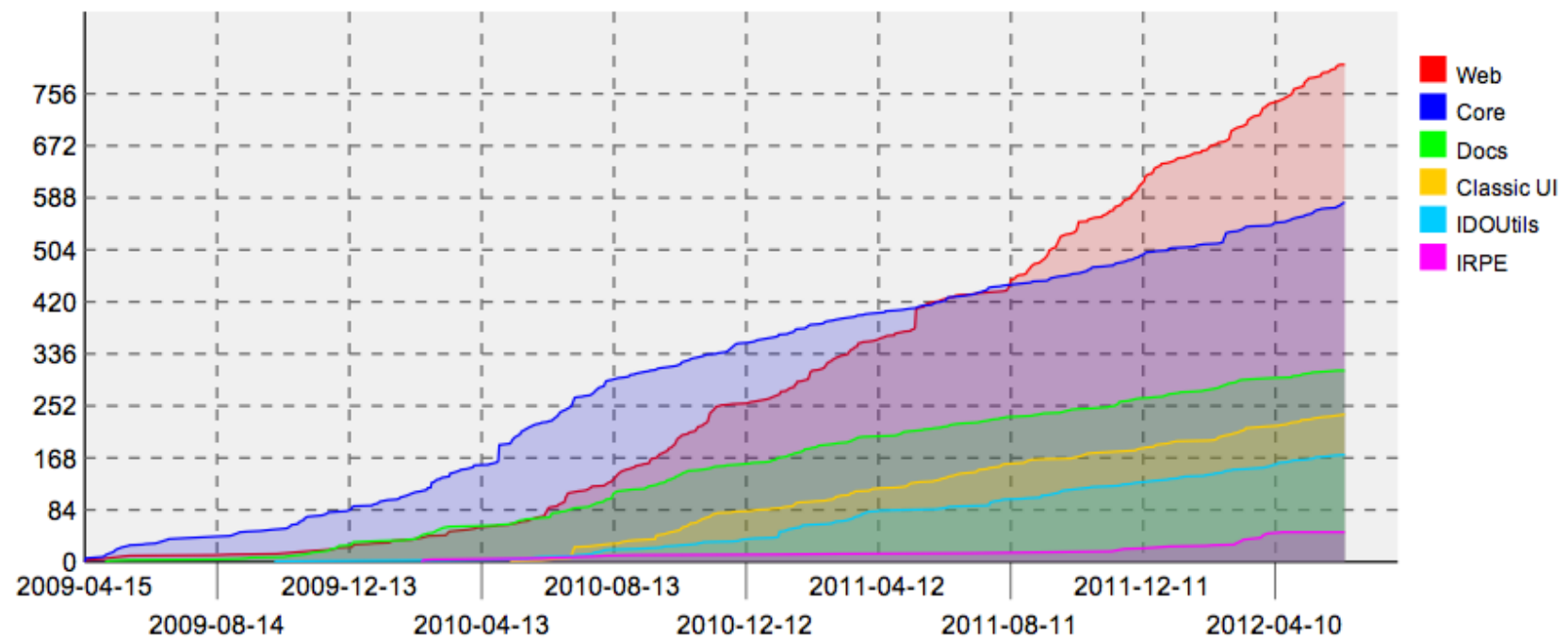
- ▶ Documentation
 - ▶ Detailed filter doc for CGIs
 - ▶ Quickstart for FreeBSD
 - ▶ PNP now described as default graphing solution
 - ▶ External command specification
- ▶ Wiki
 - ▶ Installation guides for various platforms
 - ▶ Addon documentation- and installations-guides

New in Icinga - Web

- ▶ Reporting integration
 - ▶ Execute reports in Icinga Web
 - ▶ Download supported formats directly without access to Jasper
 - ▶ Job scheduling
- ▶ New module interface
 - ▶ Update safe modules
 - ▶ Independent module configuration and installation
- ▶ New API
 - ▶ New Doctrine based abstraction layer supports various databases with easier configuration

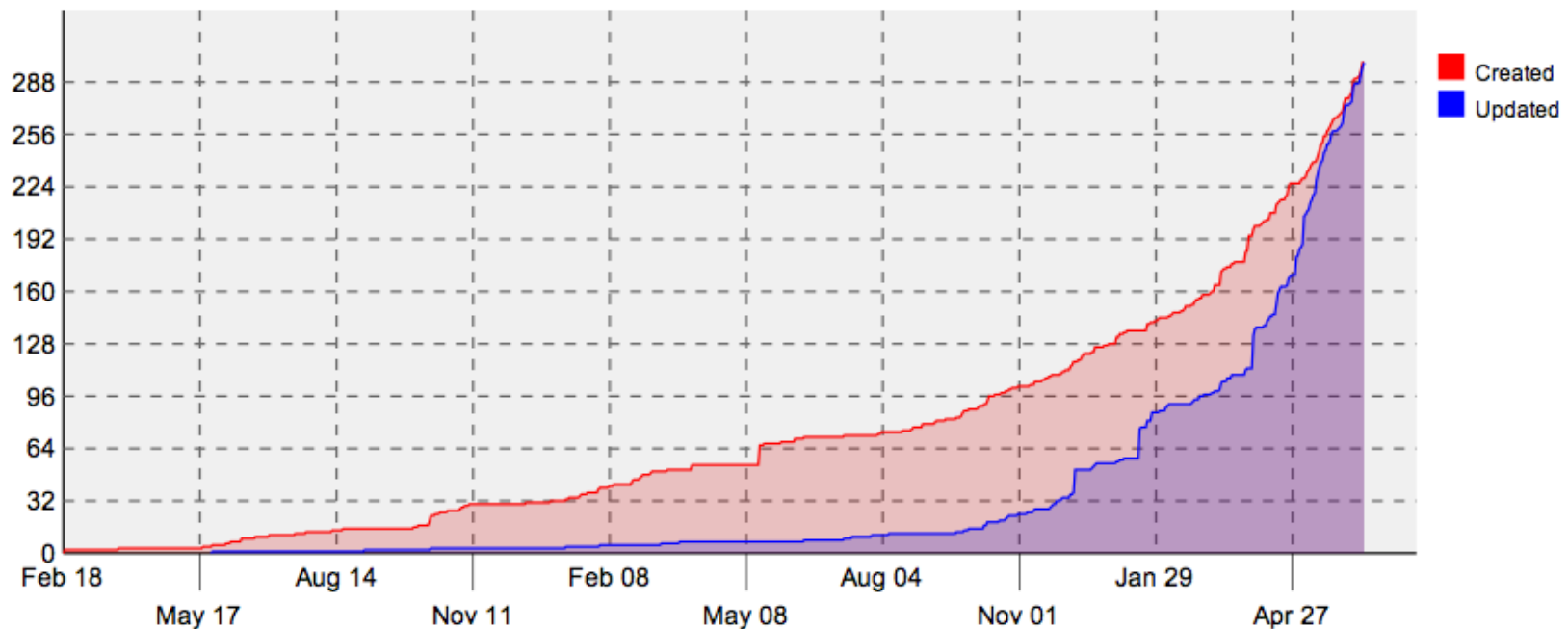
Current Development – Stats

Total issues over time



Current Development – Stats

Open aging issues

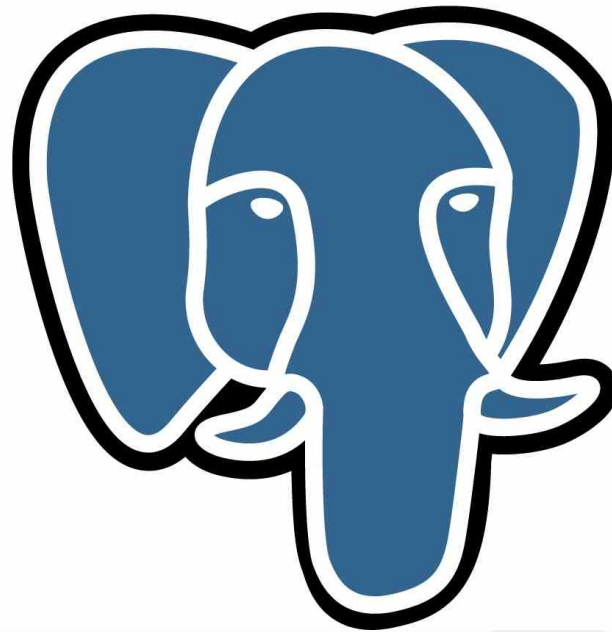


Current Development - Mobile



PostgreSQL

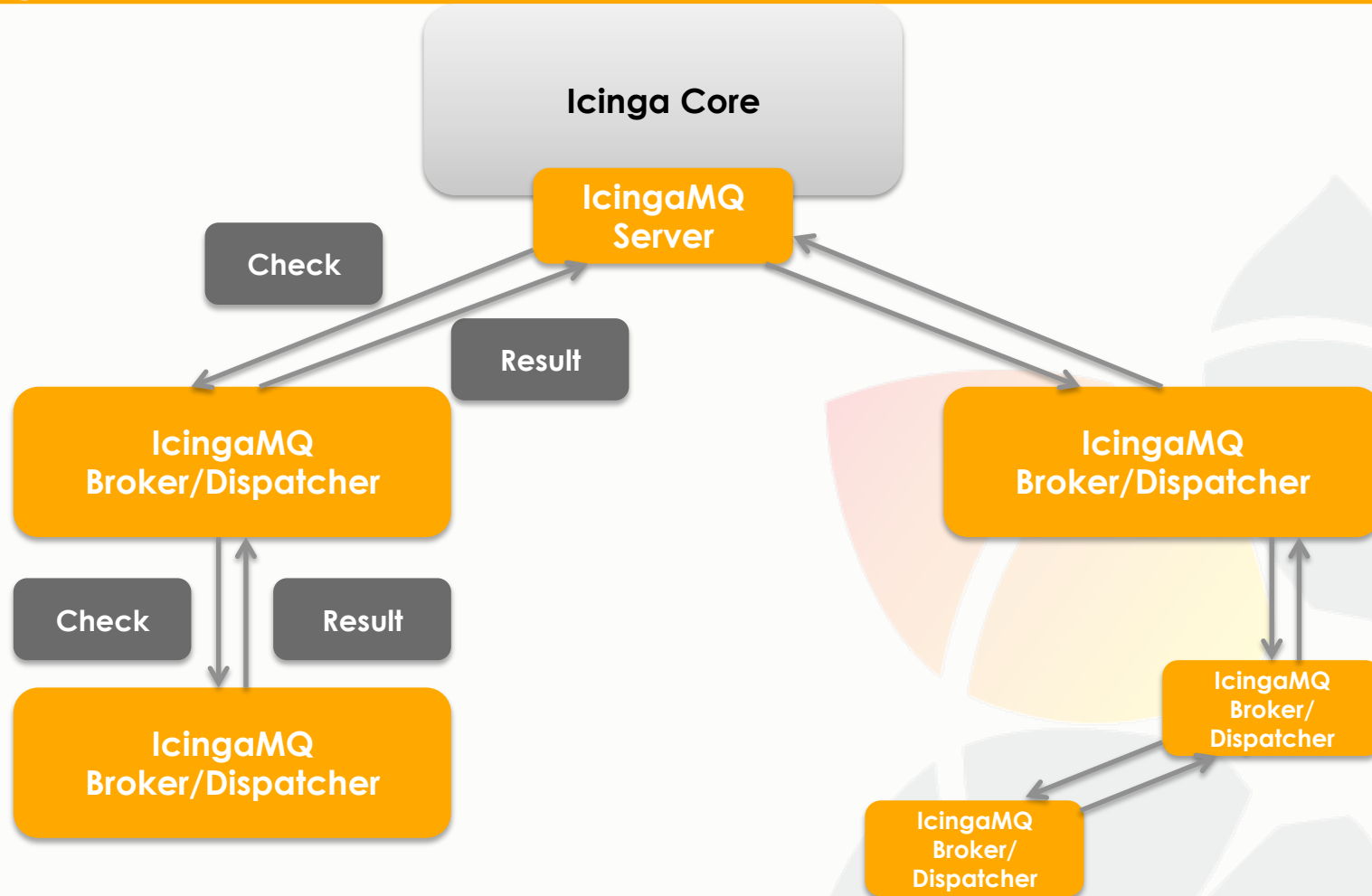
PostgreSQL



Current Development - MQ



IcingaMQ - Advanced



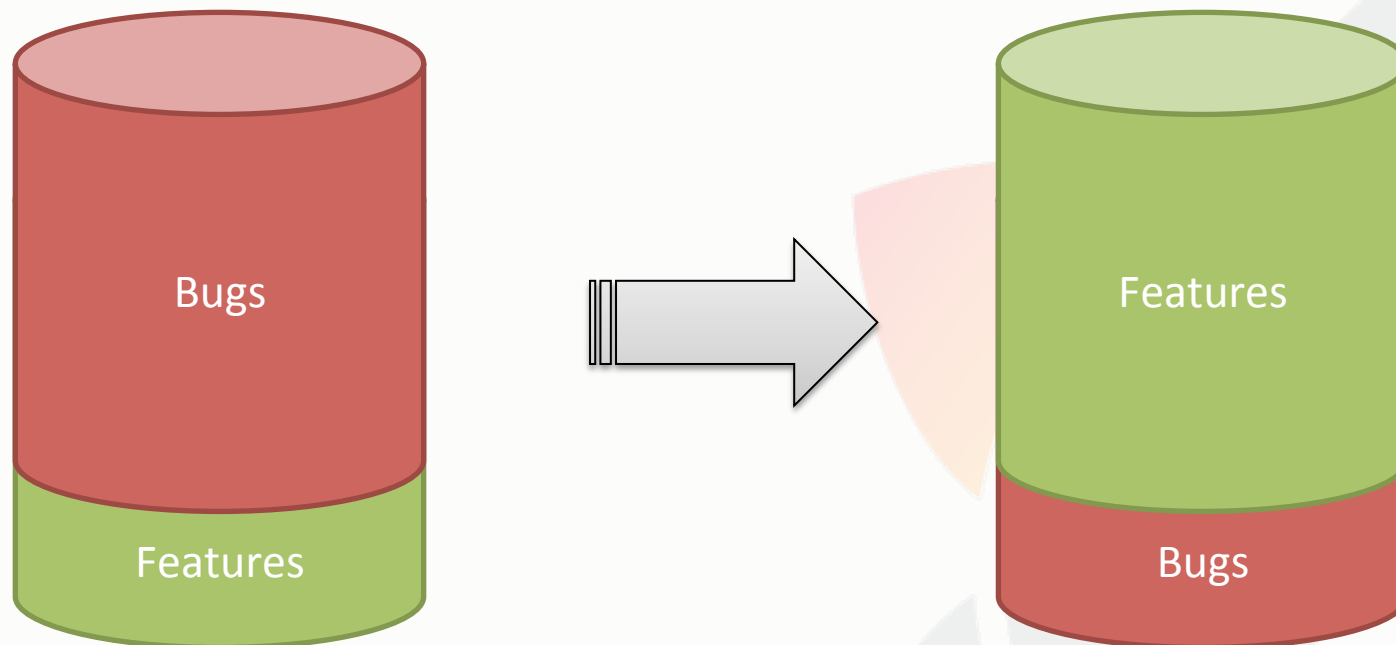
Live Demo

DEMO

What's next ?

- ▶ Performance improvements
 - ▶ Optimized check result handling
 - ▶ Easier handling of large installations
- ▶ Optimized installation process
- ▶ Extending Core Concept

Workload distribution



[Feedback.icinga.org](https://feedback.icinga.org)

- ▶ API to add new hosts/groups/services/commands automatically
- ▶ Multiple addresses for one host
- ▶ Icinga with real distributed architecture

What's next ?

- ▶ Performance improvements
 - ▶ Optimized check result handling
 - ▶ Easier handling of large installations
- ▶ Optimized installation process
- ▶ Extending Core Concept

Roadmap

- ▶ Versions planned for 2012
 - ▶ 08/01/2012 – 1.8
 - ▶ 10/17/2012 – 1.9

Questions & Answers



Questions & Answers

Web www.icinga.org

Development dev.icinga.org

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Everywhere!