Open Source Monitoring

Icinga Team
Hamburg | sage@guug
2012-10-11

About me

- Ricardo Bartels (ricardo@icinga.org)
- Deutsche Telekom Technik GmbH, Berlin
- System administrator since 8 years
- Icinga Core developer (Classic-UI maintainer)

Agenda

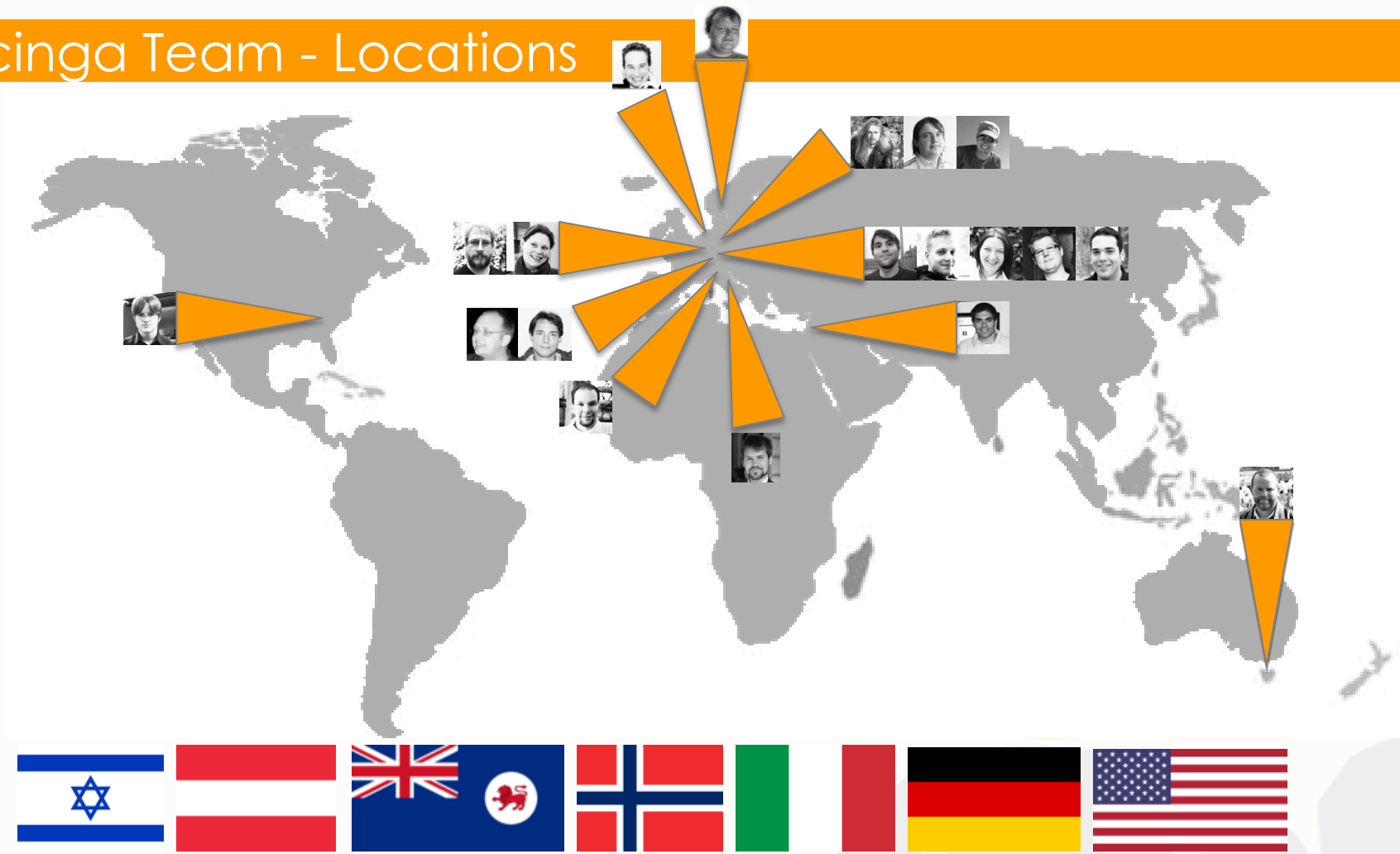
- Introduction
- Tools and Platform
- Icinga vs. Nagios
- Architecture
- New in Icinga
- Current Development
- Live Demo
- What's next
- Roadmap
- Questions & Answers

Introduction

Statistics

- Forked from Nagios in April 2009
- Over 235.000 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

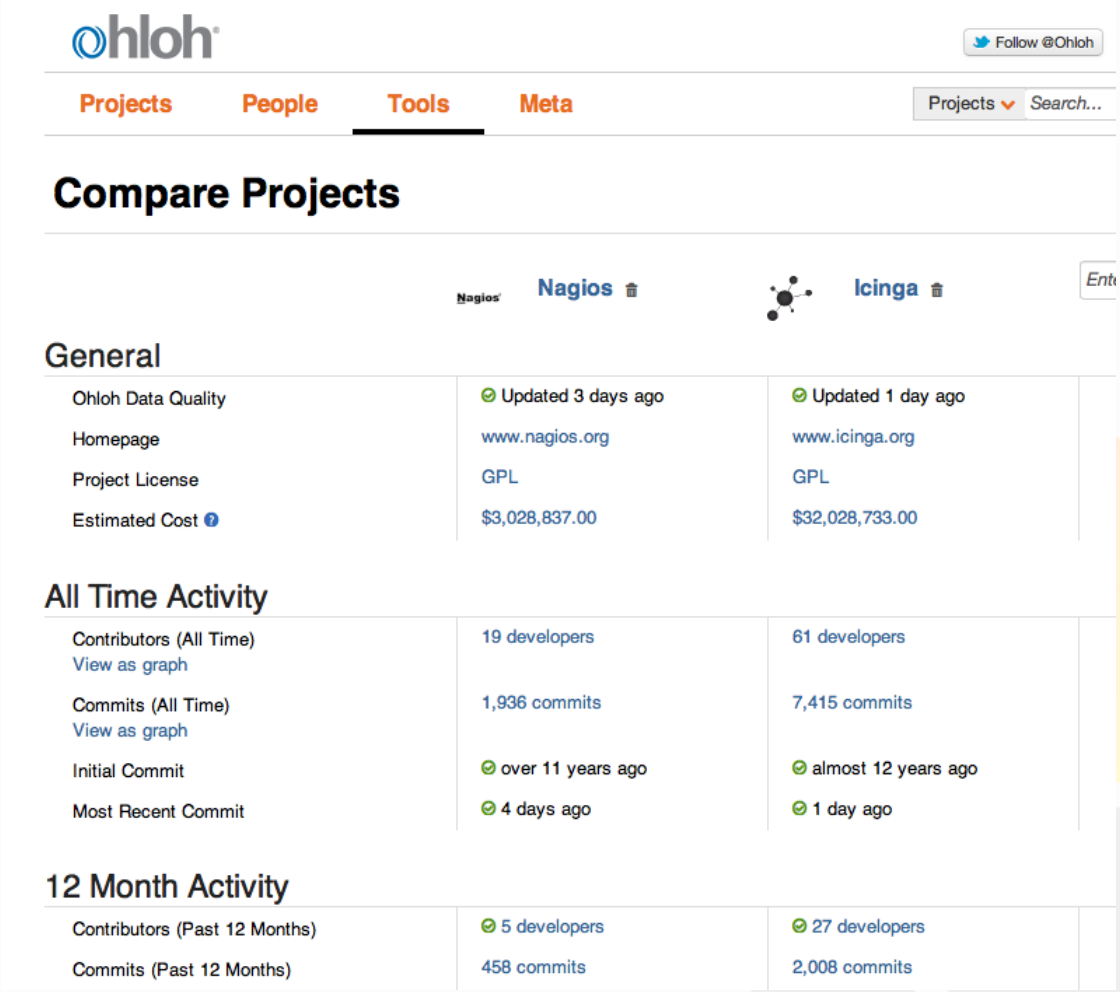
Icinga Reports

based on
Jasper Reports

Icinga vs. Nagios

- Optimized database support
  - Better performance & platform flexibility
    - MySQL
    - PostgreSQL
    - Oracle
- 80+ bug fixes missing in Nagios ®
  (https://wiki.icinga.org/display/Dev/Bug+and+Feature+Comparison)
- Many improvements in Core, Classic UI and a new web interface
  - IPv6 and IPv4 support, compound commands, log file search and logging
- SLA aggregation and reporting
- Plugin and configuration compatibility with Nagios ®
- Public roadmap and active development

Icinga vs. Nagios



ohloh

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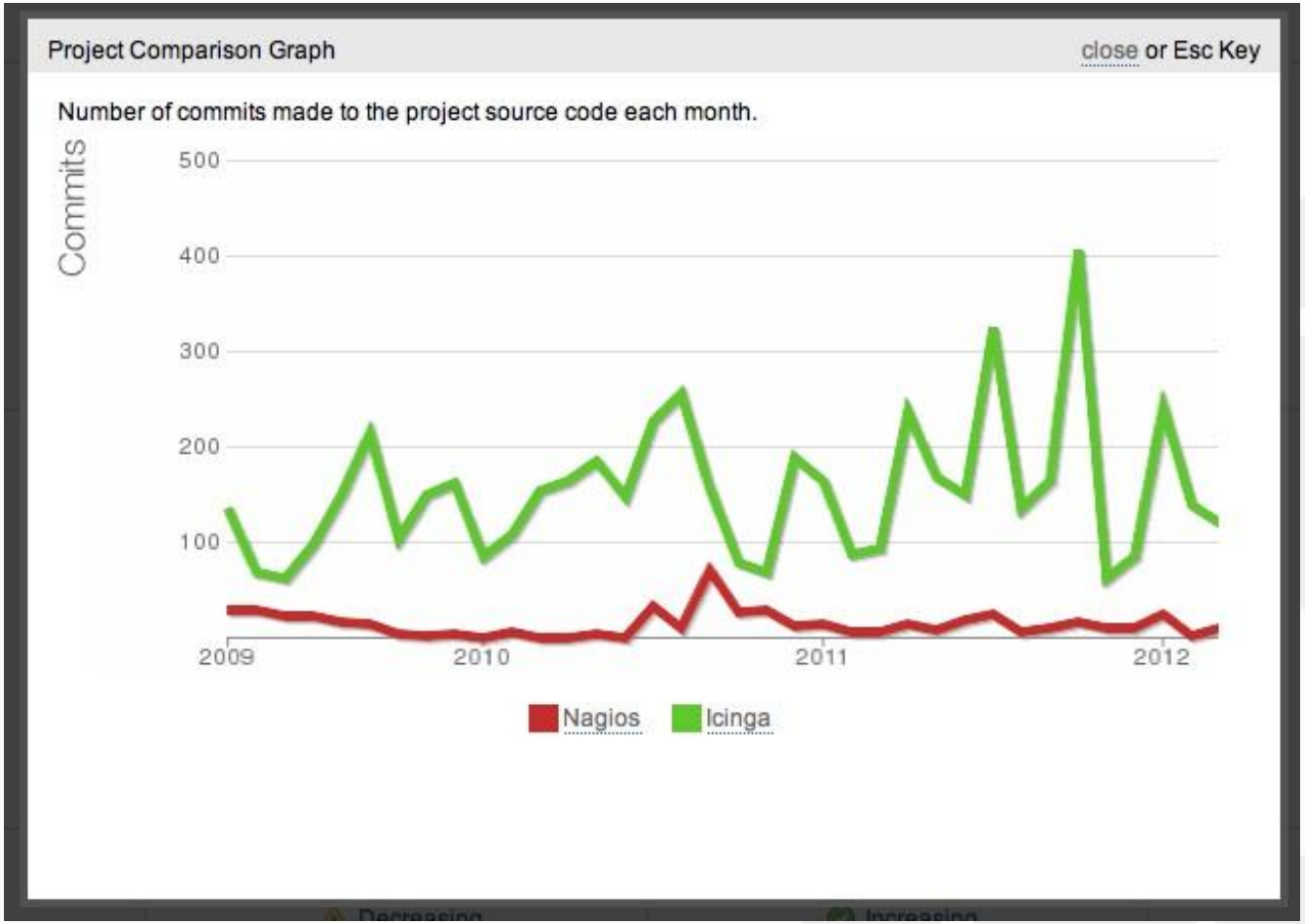
Projects | People | Tools | Meta

Projects Search...

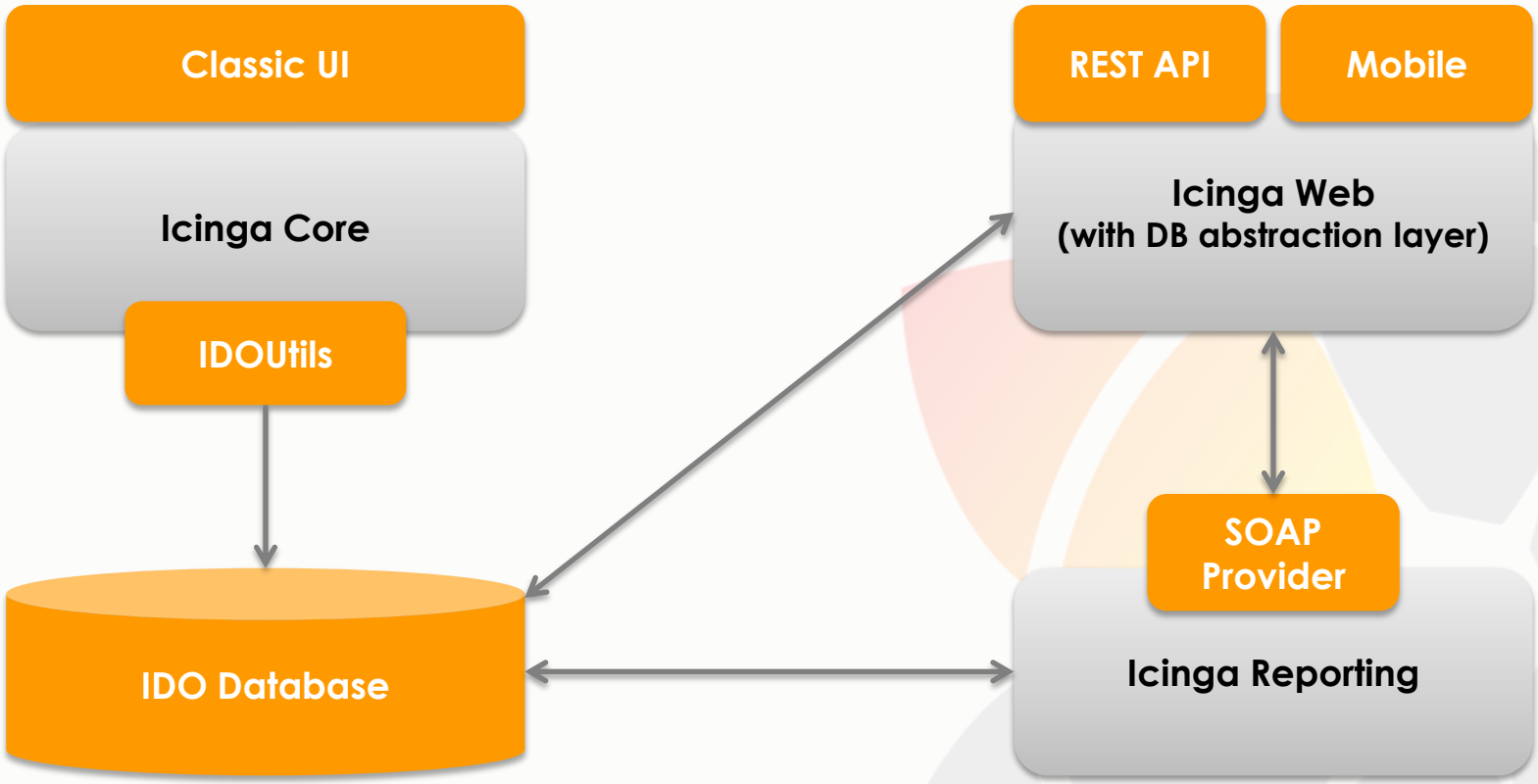
Compare Projects

	Nagios	Icinga
General		
Ohloh Data Quality	Updated 3 days ago	Updated 1 day ago
Homepage	www.nagios.org	www.icinga.org
Project License	GPL	GPL
Estimated Cost	$3,028,837.00	$32,028,733.00
All Time Activity		
Contributors (All Time) View as graph	19 developers	61 developers
Commits (All Time) View as graph	1,936 commits	7,415 commits
Initial Commit	over 11 years ago	almost 12 years ago
Most Recent Commit	4 days ago	1 day ago
12 Month Activity		
Contributors (Past 12 Months)	5 developers	27 developers
Commits (Past 12 Months)	458 commits	2,008 commits

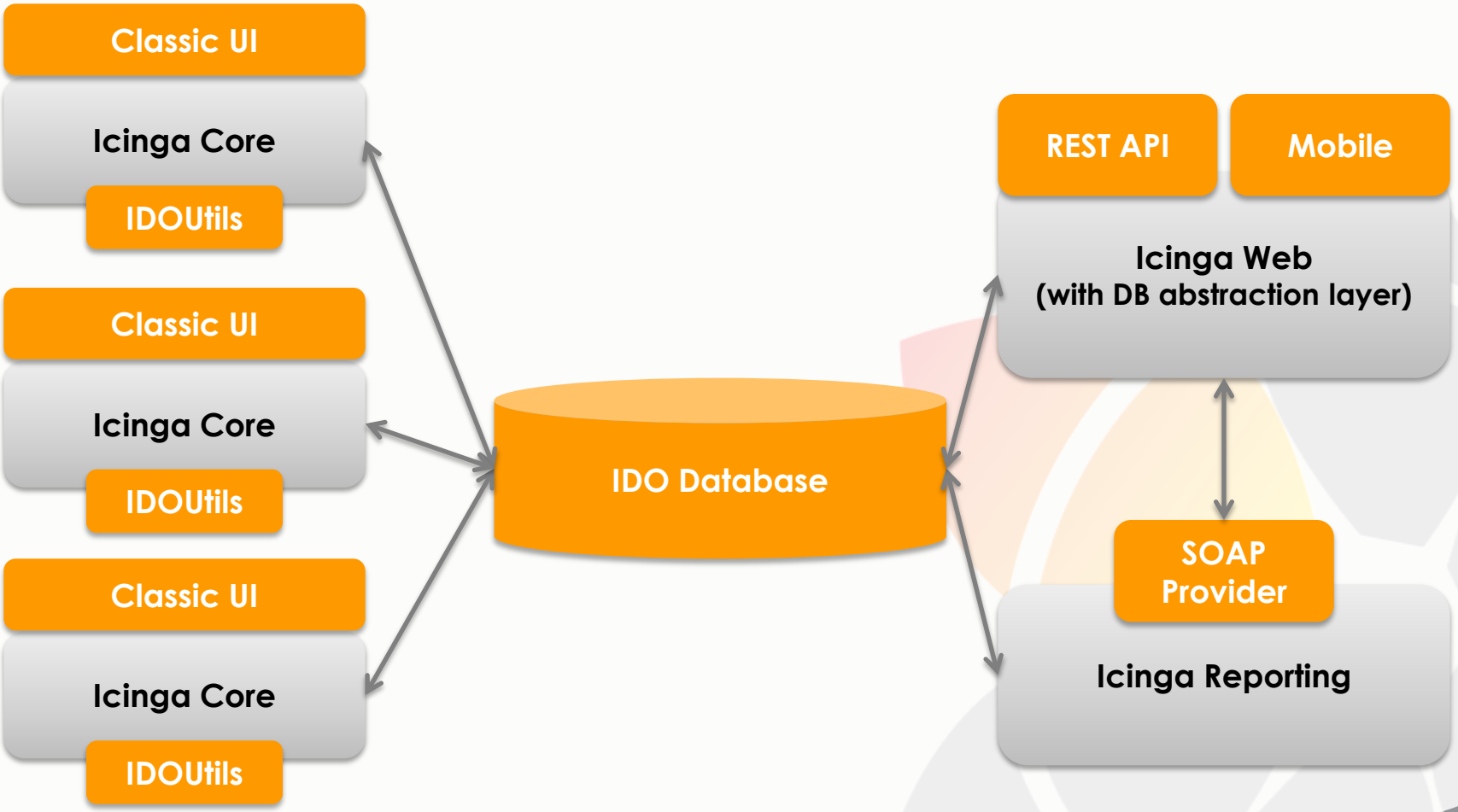
Icinga vs. Nagios



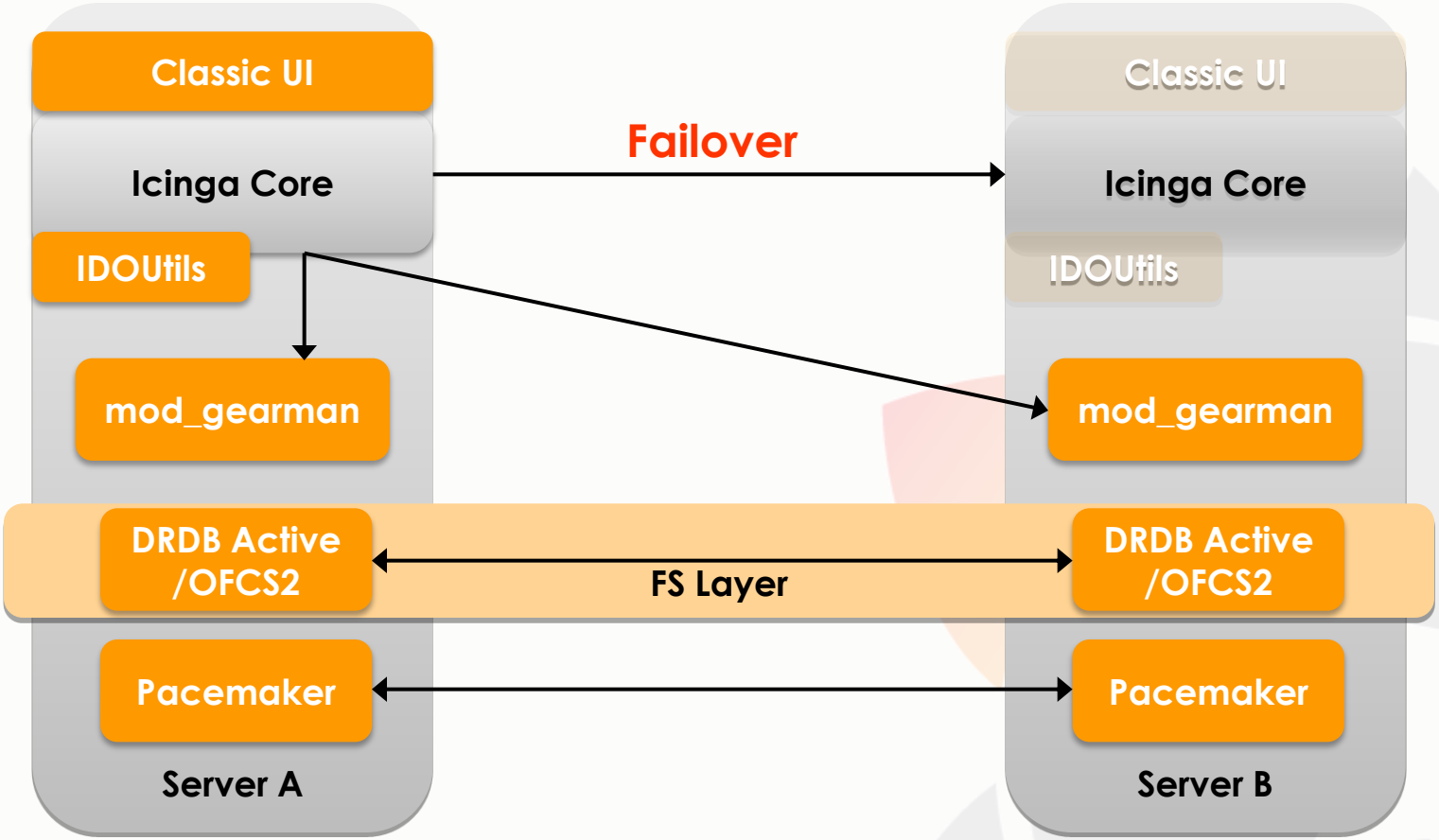
Architecture



Distributed Architecture using Icinga-Web



Distributed Architecture using Classic-UI



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

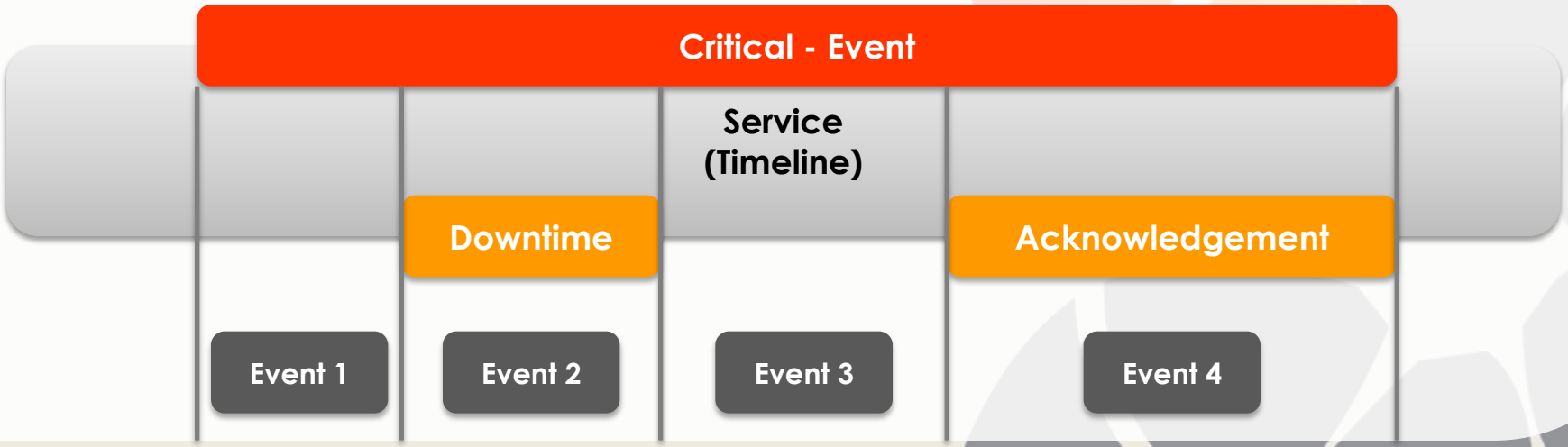
- Acknowledgement of blocking outages
- Tactical overview header
- Advanced RegEx search
- Various improvements in navigation (Pagination)
- Advanced data export
  - JSON
  - CSV
- Logfile search supported via webinterface
- Maintenance view for hosts and services in downtime

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

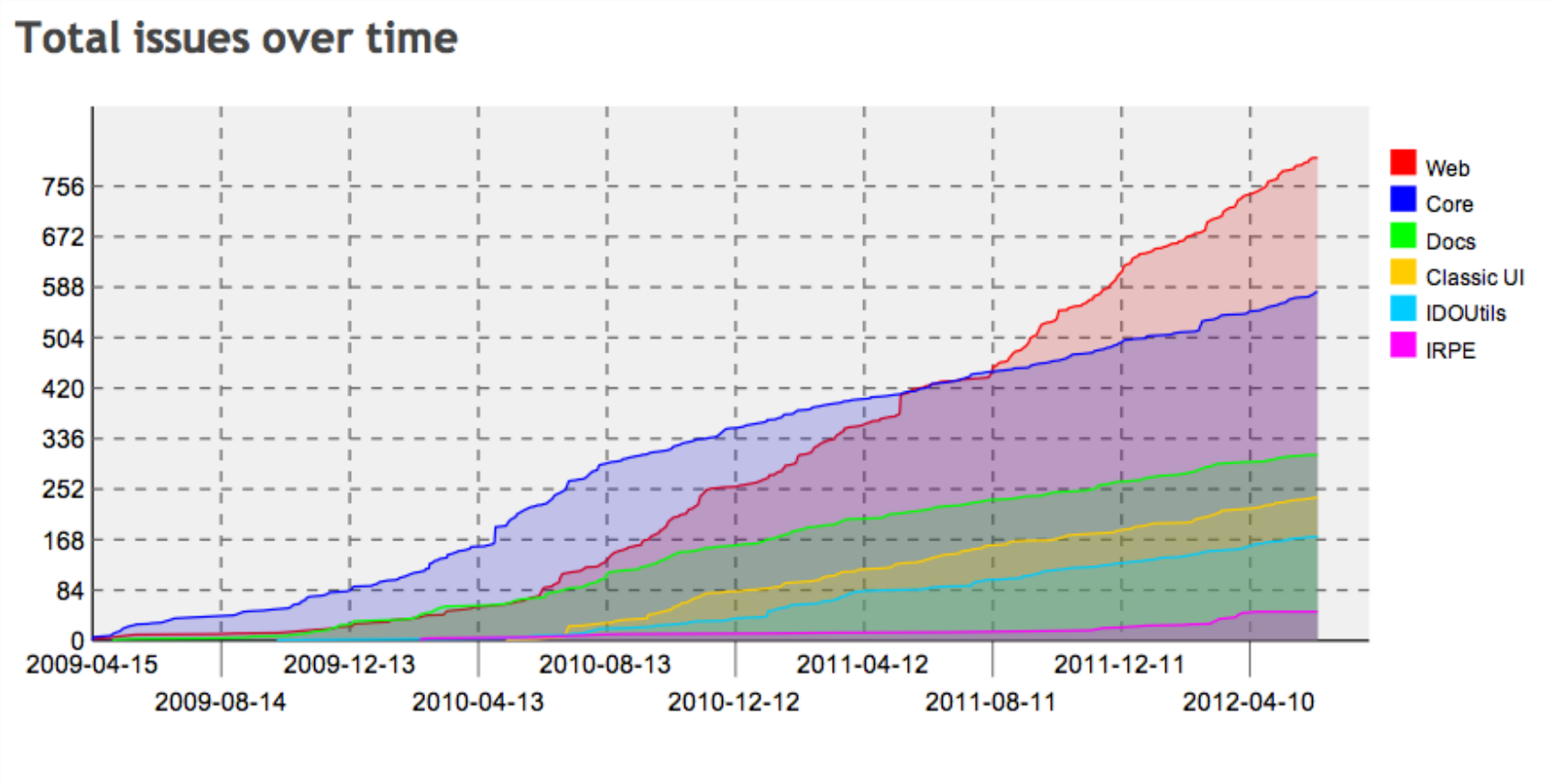
- Documentation
  - Detailed filter doc for CGIs
  - Quickstart for FreeBSD
  - PNP now described as default graphing solution
  - External command specification
- Wiki
  - Installation guides for various platforms
  - Addon documentation- and installations-guides
  - Plugin Integration

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 - Mobile

Current Development – Stats



Live Demo

DEMO

What's next ?

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

Sources

- OS/Distro packages:
  - Debian (Alexander Wirt)
  - Suse (Tim Hardeck)
  - Gentoo (Mathow Tode)
  - RedHat/CentOS/Fedora <- soon (???)
  - FreeBSD (Lars Engeles)
  - OSX (Christian Zigotzky)
  - Arch Linux (pezz)
- Source packages: http://sourceforge.net/projects/icinga/

Roadmap

- Versions planned for 2012
  - 10/17/2012 – 1.8

Questions & Answers

Questions & Answers

Web www.icinga.org

Development dev.icinga.org

Git git.icinga.org

Feedback feedback.icinga.org

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Everywhere!