

Icinga – Open Source Monitoring

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Agenda

- **The Icinga Project**
- **Project Structure**
- **Tools and Plattform**
- **Project Status**
- **Live-Demo**
- **Roadmap**
- **Questions & Answers**

The Icinga Project

- community fork of Nagios (started in May 2009)
- four main components & teams
 - Icinga-core (Stable)
 - Icinga-api (Alpha)
 - Icinga-web (Beta)
 - Icinga-docs (Stable)
- downward compatible to Nagios
 - plugins
 - configuration
 - addOns
 - database



The Project Structure

- Biweekly Skype
- Mailinglist for communication
- Ticketing und project-management (dev.icinga.org)

Icinga Quality, Testing and Community Support

Icinga-Core

Icinga-API

Icinga-Web

Icinga-Docu



Tools and Platform

Icinga Quality, Testing and Community Support

website and open source ticketing system

Icinga-Core

*C based source
MySQL
PostgreSQL
Oracle*

GIT

Icinga-API

based on PHP

GIT

Icinga-Web

*based on PHP
using ExtJS,
YUI, Agavi MVC
and Icinga-API*

GIT

Icinga-Doc

*based on
Docbook in
english and
german*

GIT

ICINGA

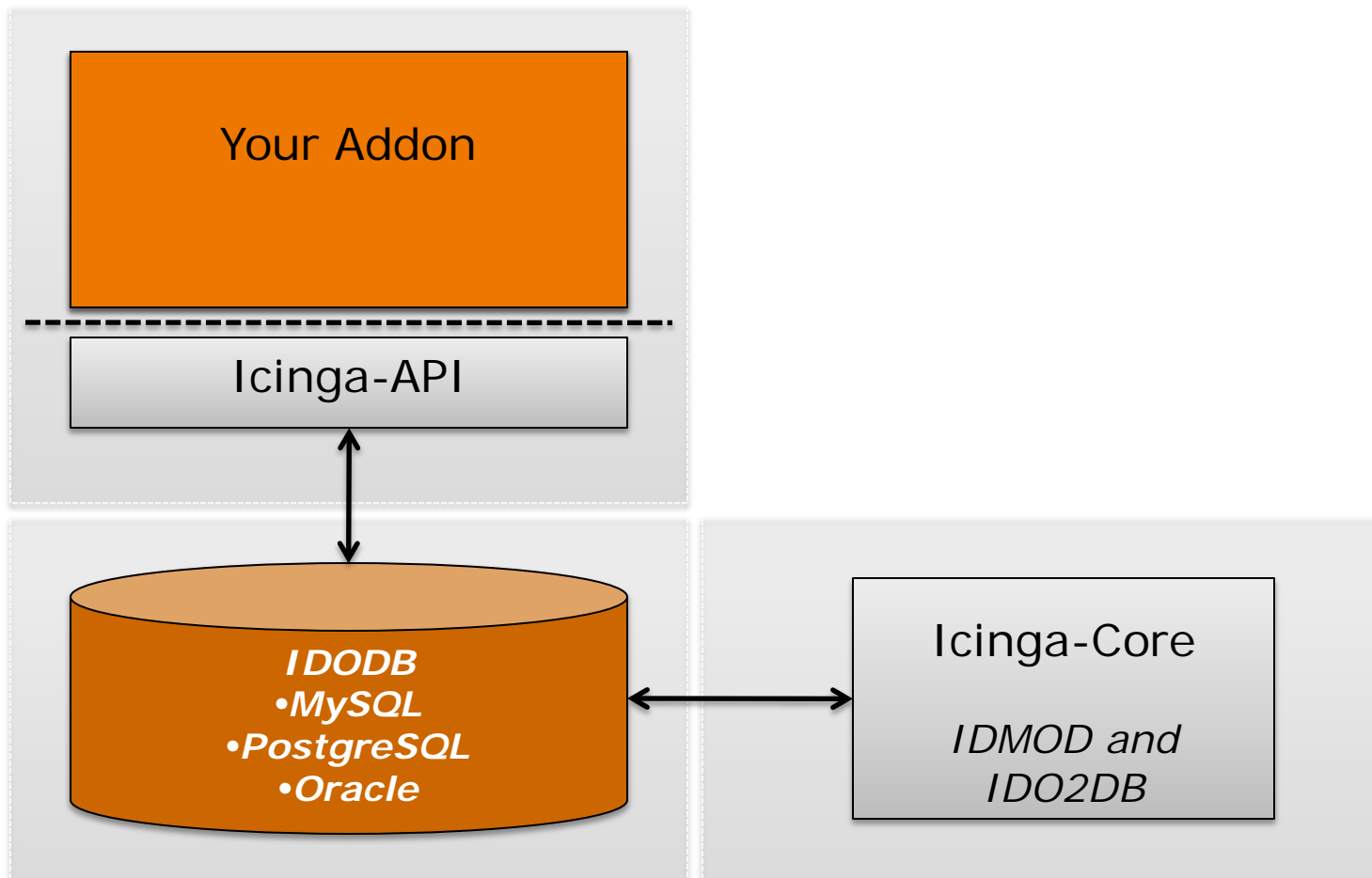
Project Status Update - Core

- fetched Nagios patches to stay compatible
- renamed IDOUtils; version handling like core
- added IDOUtils as core module during install
- introduced new DB Abstraction layer: libdbi and ocilib
- conditional escalation
- added initial support for more RDBMs
 - MySQL
 - PostgreSQL
 - Oracle

Project Status Update – API

- fetches information from icinga
- sends commands to icinga
- no dependencies to other libraries or frameworks
- opportunity to be free from complex data schemas
- available interfaces
 - output: database (PHP-PDO)
 - input: pipe, ssh

Project Status Update – Web architecture



Project Status Update – Web Features

- persistent user settings
- multiple authentication adapters
 - BasicAuth
 - LDAP
 - Database
- easy extendable using custom cronks
- create custom views on all monitoring items
- state of the art web 2.0 interface

Live Demo



Demo

10 UP
0 DOWN
0 UNREACHABLE
0 NOT OK
10 All

587 OK
0 WARNING
90 CRITICAL
0 UNKNOWN
90 NOT OK
677 All

Data

- Hostgroups
- Servicegroups
- HostStatus
- HostHistory
- ServiceStatus
- ServiceHistory
- LogView
- Notifications
- Status Map

Misc

Service	Status	Last check	Info	Attempt	Output
Host: c1-db1 (2 Items)					
MySQL	OK	01.03.2010 05:34:15		1 / 5	MySQL: OK, SQLquery OK - Query too...
PING	OK	01.03.2010 05:31:22		1 / 5	PING: OK, Packet loss = 23.204: RTA ...
Host: c1-db2 (2 Items)					
MySQL	OK	01.03.2010 05:30:03		1 / 5	MySQL: OK, SQLquery OK - Query too...
PING	OK	01.03.2010 05:31:22		1 / 5	PING: OK, Packet loss = 0.524: RTA ...
Host: c1-fw (1 Item)					
PING	OK	01.03.2010 05:29:44		1 / 5	PING: OK, Packet loss = 29.988: RTA ...
Host: c1-http (2 Items)					
HTTP	OK	01.03.2010 05:34:20		1 / 5	HTTP: OK, HTTP OK HTTP/1.0 200 OK...
PING	OK	13.02.2010 07:53:03		1 / 5	PING: OK, Packet loss = 79.967: RTA ...

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Timestamp	Type	Message
2010-03-02 09:35:14	info message	idomod: Successfully reconnected to data sink! 0 items lost, 37 queued items to flush.
2010-03-02 09:35:14	info message	idomod: Successfully flushed 37 queued items to data sink.
2010-03-02 09:34:56	info message	idomod: Please check remote ido2db log, database connection or SSL Parameters
2010-03-02 09:34:56	info message	idomod: Error writing to data sink! Some output may get lost...

Questions and Answers

- **Here and now - Exhibition hall 9 stand B20**
- **Website: <http://www.icinga.org>**
- **Website: <http://www.netways.de>**
- **E-Mail: bernd.erk@netways.de**
- **Blog <http://blog.netways.de>**
- **Twitter <http://twitter.com/icinga>**