Icinga – Open Source Monitoring

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@ CeBIT

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NETWAYS®

OPEN SOURCE
MONITORING
www.icinga.org

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*

Icinga-API
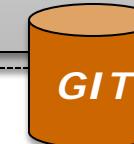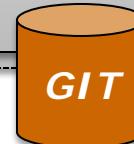
based on PHP

Icinga-Web

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

Icinga-Doc

*based on
Docbook in
english and
german*

GIT

GIT

GIT

GIT

Project Status Update - Core
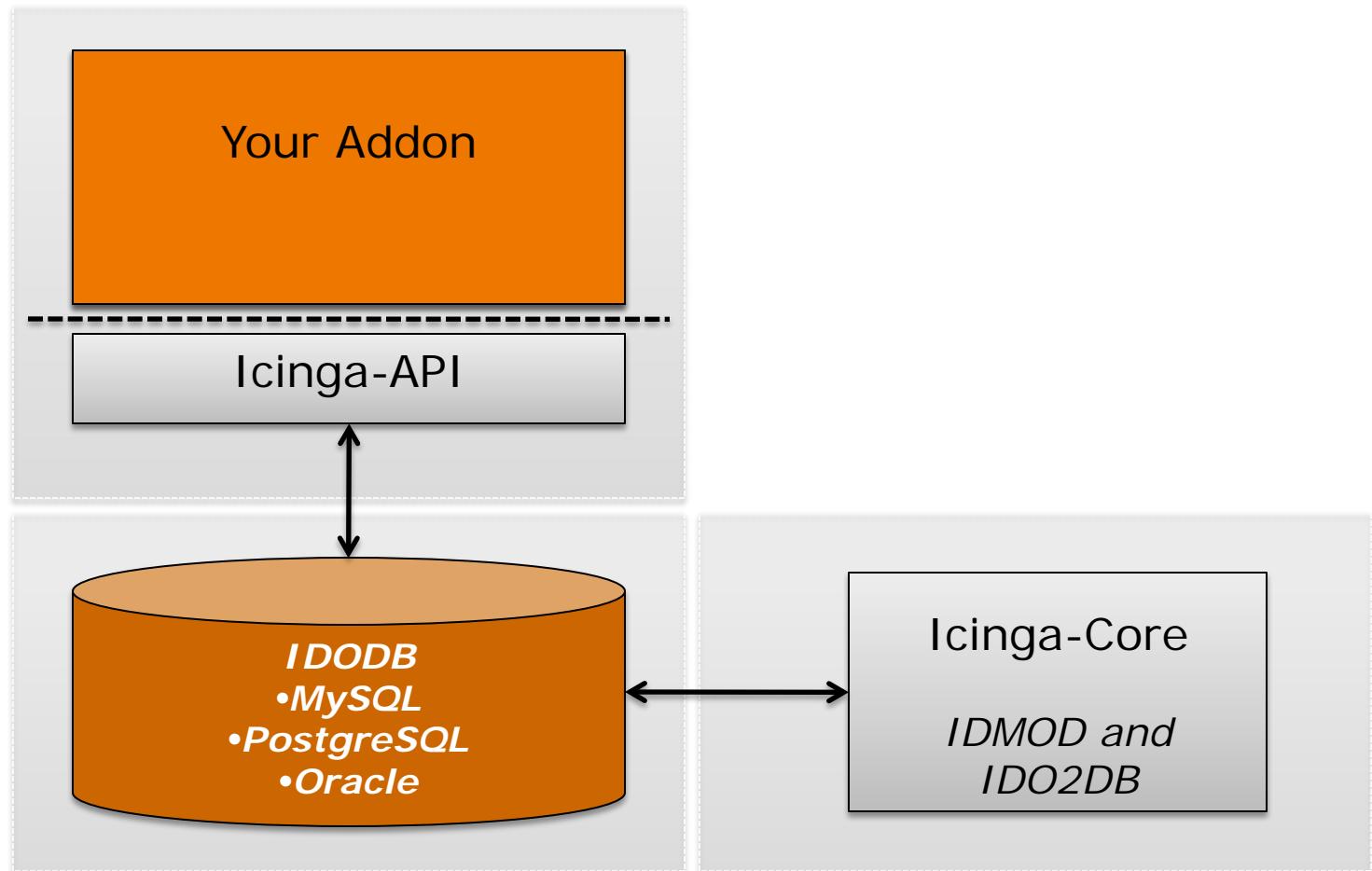
- fetched Nagios patches to stay compatible

- 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

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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 authentification adapters

  - BasicAuth

  - LDAP

  - Database

- easy extendable using custom cronks

- create custom views on all monitoring items

- state of the art web 2.0 interface

Demo

Home ▾   My ▾   Monitoring ▾

ICINGA

🔍 [   ] ⊗

10 UP	587 OK
0 DOWN	0 WARNING
0 UNREACHABLE	90 CRITICAL
0 NOT OK	0 UNKNOWN
10 All	90 NOT OK
	677 All

≪

Data —

Hostgroups   Servicegroups

HostStatus   HostHistory

ServiceStatus   ServiceHistory

LogView   Notifications   Status Map

Misc ⊞

| Hostgroups ⊠ | **ServiceStatus** ⊠ |

🔄 Refresh   ⚙ Settings ▾ | ✏ Filter ▾

☐	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				13.02.2010 07:53:03	📗📗	1 / 5	PING: OK, Packet loss = 79.967: RTA ...

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Log ⌄

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...
2010-03-02 09:34:20	runtime warning	Warning: Attempting to execute the command "/usr/bin/printf '%b' '***** Icinga 0.80 ***** Notification Type: PROBLEM Service: DOD2 Host: sub-de-pop Address: 217.70.192.124 State:

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**

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