



ICINGA

**Open Source
Monitoring**

Rune Darrud

Oslo| 11 september

Norwegian Unix User Group



WWW.ICINGA.ORG

Agenda

- ▶ Introduksjon
- ▶ Verktøy og platform
- ▶ Icinga vs. Nagios
- ▶ Arkitektur
- ▶ Icinga
 - ▶ Core
 - ▶ Classic UI
 - ▶ IDOUtils
 - ▶ Dokumentasjon

Agenda

- ▶ Icinga
 - ▶ Web
 - ▶ Mobile
 - ▶ Reporting
 - ▶ Addons & Plugins
- ▶ Veikart
- ▶ Fremtiden
- ▶ Addons Bærum kommune bruker
- ▶ Spørsmål og svar

Introduksjon

- ▶ Rune Darrud
- ▶ 24 / m / Norge
- ▶ System Administrator
 - ▶ Bærum kommune, IKT driftsenheten
- ▶ Icinga QA Lead + Core utvikler
- ▶ Icinga er ...
 - ▶ Et av mange prosjekter på kontoret
 - ▶ En hobby hjemme [⌘]

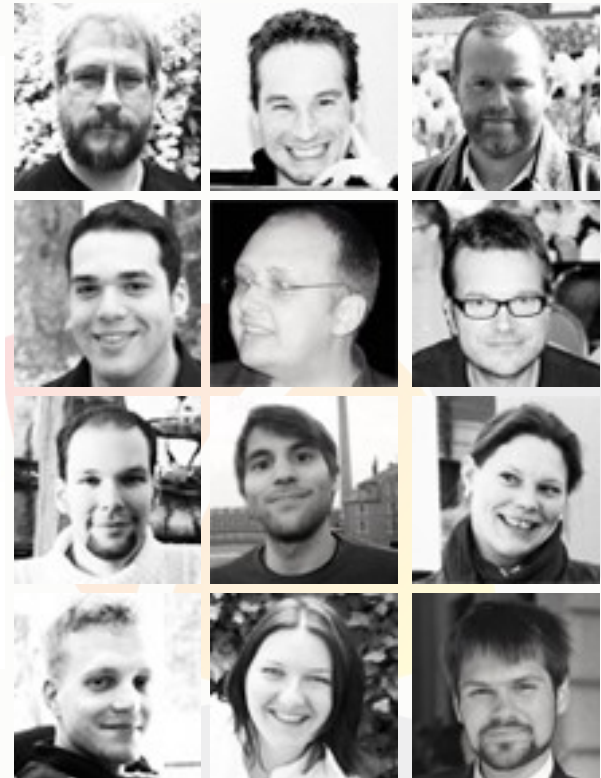
Introduksjon

Statistikk

- ▶ Forket fra Nagios i april 2009
- ▶ Over 225.000* nedlastninger til nå – flere ventet med 1.8 ^{^^}
- ▶ Forskjellige lag med egne ansvarsområder
- ▶ Icinga Core
- ▶ Icinga Web
- ▶ Icinga Reporting
- ▶ Icinga Marketing
- ▶ Icinga Q&A
- ▶ 24 “aktive” medlemmer på laget

*Kun målt fra SourceForge.net, Icinga teller ikke installasjoner fra pakkebrønner

Team



Verktøy og plattform

Icinga Quality, Testing og Community Support
Website and Open Source Ticketing System

Icinga Core

C basert kildekode
MySQL, PostgreSQL og Oracle

Classic UI

IDOUtils

NRPE and NSCA

Icinga Web

Basert på PHP
bruker
Sencha, Agavi
MVC

Mobile

Icinga Doc

basert på
Docbook med
engelsk og
tysk språk
som
alternativer

Icinga Reports

basert på
Jasper Reports

Verktøy og plattform

- ▶ Development Tracker basert på Redmine
 - ▶ <https://dev.icinga.org>
- ▶ Wiki basert på Confluence OSS lisens
 - ▶ <https://wiki.icinga.org>
- ▶ Build server basert på Jenkins
 - ▶ Automatisk testing & nattlige pakker
 - ▶ <http://build.icinga.org/snapshots/>
- ▶ Website basert på Wordpress & Plugins
- ▶ Støtte via Mail, Forum, IRC, Twitter, Facebook, ...

Icinga vs. Nagios

- ▶ Hvorfor forke?
 - ▶ En Nagios utvikler
 - ▶ Community patcher aldri påført
 - ▶ Manglende fremgang
- ▶ Ideer bak forken
 - ▶ Åpne opp miljøet
 - ▶ Lage en stabil arkitektur
 - ▶ Aktivt revidere og påføre patcher
 - ▶ Implementere våre funksjoner og feilrettinger
 - ▶ Offentlig utviklings veikart

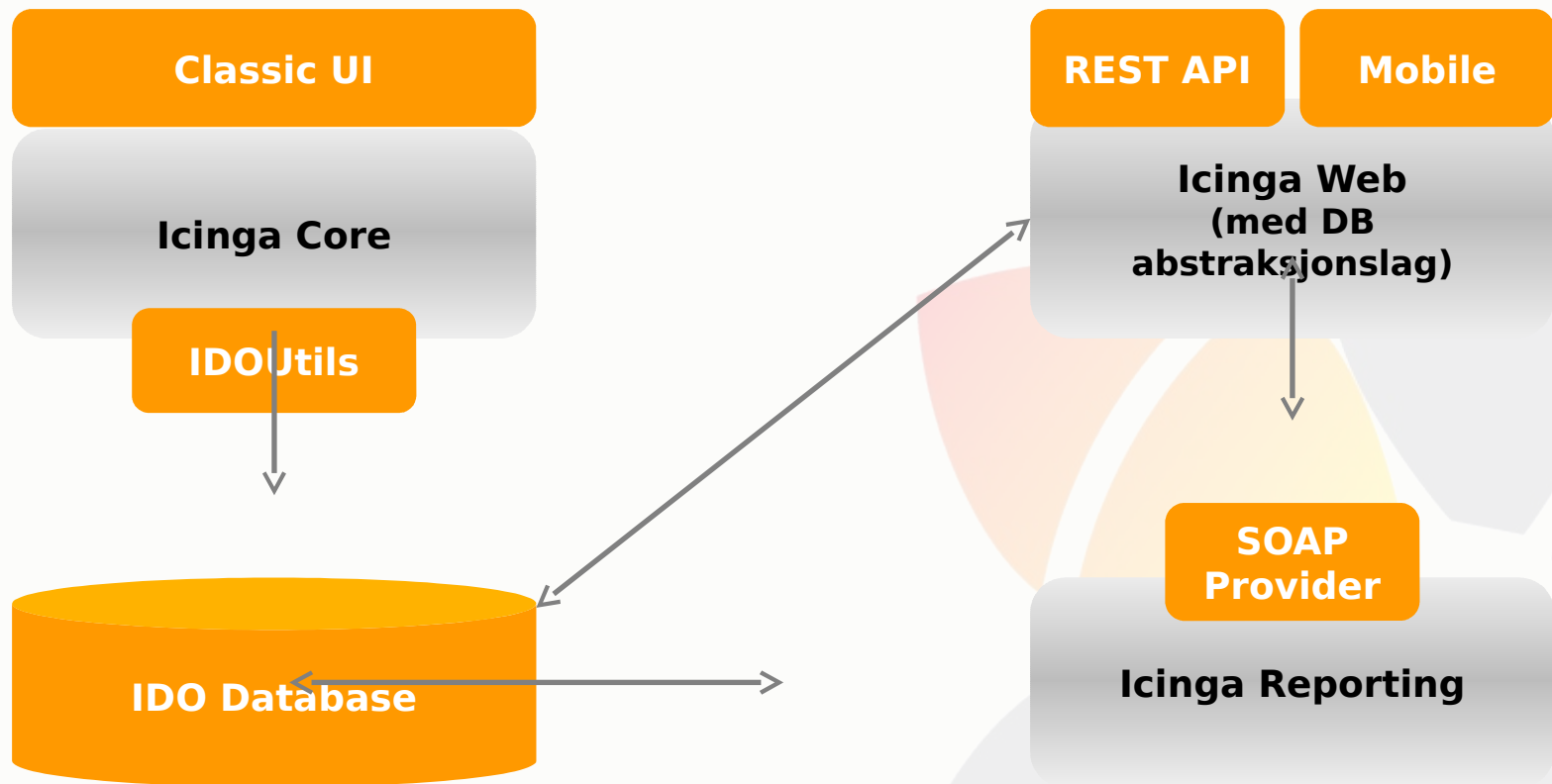
Icinga vs. Nagios

- ▶ Optimisert database støtte
 - ▶ Bedre ytelse & platform fleksibilitet
 - ▶ MySQL
 - ▶ PostgreSQL
 - ▶ Oracle
- ▶ 80+ bug fikser som ikke er i Nagios ®
(<https://wiki.icinga.org/display/Dev/Bug+and+Feature+Comparison>)
- ▶ Mange forbedringer i Core, Classic UI og det nye webgrensesnittet
 - ▶ IPv6 og IPv4 støtte, sammensatte kommandoer, søk i loggfil og logging
- ▶ Reporting basert på Jasper
- ▶ Plugin- og konfigurasjonskompatibilitet med Nagios ®
- ▶ Offentlig veikart og aktiv utvikling

Arkitektur

- ▶ Bygget på Icinga Core
 - ▶ Classic UI bruker status.dat/objects.cache
- ▶ IDOUtils DB Backend
- ▶ Icinga Web
 - ▶ REST API
 - ▶ Brukt av Icinga Mobile
- ▶ Icinga Reporting
- ▶ Icinga QA, Testing & VM
- ▶ Endringer i 2011
 - ▶ Icinga API som et abstraksjonslag til IDOUtils DB foreldet
 - ▶ Icinga Web med Doctrine DB lag

Arkitektur



Icinga - Core

- ▶ “Acknowledgement” med utløpstid
 - ▶ Ikke kvitter og glem lenger
 - ▶ Påvirker ikke rapportene
 - ▶ Nye kommandoer
- ▶ Dualstack IPv6 støtte
 - ▶ Host attributt address6
 - ▶ \$HOSTADDRESS6\$ macro

Icinga - Classic UI

► Sammensatte kommandoer

- Acknowledge/Reschedule/osv mange hoster eller “services” på en gang

- Fjern flere “downtimes” på en gang

Icinga 1.7.0 - Logged in as icingaadmin

- View **History** For All Hosts
- View **Notifications** For All Hosts
- View **Host AND Services** For All Hosts
- View **Host Status Detail** For All Hosts

Display Filters: 

Service Status Details For All Hosts

Host ^v	Service ^v	Status ^v	Last Check ^v	Duration ^v	Attempt ^v	Status Information	
HOSTDNS 	DNS Report 	UNKNOWN	2012-05-31 19:19:21	0d 6h 7m 32s	1/1 (#0)	UNKNOWN: Report	
HOSTICINGA 	All Disks 	CRITICAL	2012-05-31 19:27:02	10d 23h 3m 23s	5/5 (#0)	DISK CRITICAL - free space: / 2335 MB (26% inode=62%): /lib/init/rw 505 MB (100% inode=99%): /dev 500 MB (99% inode=99%): /dev/shm 505 MB (100% inode=99%):	
	All Procs 	CRITICAL	2012-05-31 19:25:37	10d 22h 21m 46s	5/5 (#0)	PROCS CRITICAL: 173 processes	
	PNP Stale RRDs 	WARNING	2012-05-31 19:27:15	0d 6h 6m 31s	5/5 (#0)	WARNING: 649 XML Files checked. 0 RRD Errors found. 484 old XML Files found	

- Fornyet taktisk oversikt
- Ikke vis passive sjekker som deaktivert
- Bruker signalfargen rødt mer økonomisk

Tactical Monitoring Overview

Last Updated: Thu May 31 19:50:55 CEST 2012 - Update in 65 seconds [pause] 
Icinga 1.7.0 - Logged in as icingaadmin

Network Outages

1 Outages

1 Blocking Outages

Hosts

2 Down

4 Unreachable

26 Up

1 Pending

Unhandled Problems
2 Active

Unhandled Problems
4 Active

Services

17 Critical

8 Warning

8 Unknown

122 Ok

5 Pending

Unhandled Problems
10 Active
1 Passive

Unhandled Problems
6 Active

Unhandled Problems
3 Active
1 Passive

Scheduled Downtime
4 Active

Scheduled Downtime
2 Active

Scheduled Downtime
1 Active

on Problem Hosts
Unacknowledged
1 Active

on Problem Hosts
Unacknowledged
3 Active

Scheduled Downtime
1 Active

Service Checks

Active

Passive

Enabled

146 Enabled

Enabled

14 Enabled

Host Checks

Active

Passive

Enabled

31 Enabled

Enabled

2 Enabled

Monitoring Features

Flap Detection

Notifications

Event Handlers

Enabled

2 Services Disabled
6 Services Flapping

Enabled

All Services Enabled
All Hosts Enabled

Enabled

11 Services Disabled
1 Host Disabled

Icinga - Classic UI

- ▶ Ny „Status Header“
 - ▶ Forskjellige tilstander, ack/unack, pending, totaler
 - ▶ URLs til utvidede filter
 - ▶ Autooppdater
 - ▶ Hold problemene i syne



Icinga - Classic UI

27 UP

2 / 0 / 0 DOWN

4 / 0 / 0 UNREACHABLE

1 PENDING

7 / 34 TOTAL

127 OK

9 / 0 / 0 WARNING

12 / 0 / 2 CRITICAL

5 / 0 / 3 UNKNOWN

5 PENDING

36 / 163 TOTAL



32 / 2 / 0

0.04 / 10.49 / 0.534 s

0.00 / 19.16 / 0.772 s

149 / 14 / 0

0.03 / 60.23 / 3.656 s

0.00 / 37.23 / 1.112 s

General

Home

Documentation

Search: process*

Status

Tactical Overview

Host Detail

Service Detail

Hostgroup Overview

Hostgroup Summary

Servicegroup Overview

Servicegroup Summary

Status Map

Problems

Service Problems

Unhandled Services

Host Problems

Unhandled Hosts

All Unhandled Problems

Network Outages

System

Comments

Downtime

Process Info

Performance Info

Scheduling Overview

Current Network Status

Last Updated: Sun Jun 3 12:51:22 CEST 2012

Icinga 1.7.0 - Logged in as icingaadmin

Update in 76 seconds [pause]

View Host Status Detail For All Hosts

Commands for checked services

Select command

Submit

Service Status Details For Host/Services matching 'process*'

Host	Service	Status	Last Check	Duration	Attempt	Status Information
HOSTICINGA	icinga Process	OK	2012-06-03 12:50:59	13d 15h 24m 58s	1/5	PROCS OK: 7 processes with command name 'icinga'
	apache2 Process	OK	2012-06-03 12:50:57	13d 15h 24m 57s	1/5	PROCS OK: 11 processes with command name 'apache2'
	ido2db Process	OK	2012-06-03 12:50:58	1d 15h 29m 9s	1/5	PROCS OK: 2 processes with command name 'ido2db'
	mysql Process	OK				
	npd Process	OK				
localhost	Total Processes	OK	2012-06-03 12:51:13			
	ido2db Process	OK	2012-06-01 21:29:14	2d 16h 52m 43s	1/4	PROCS OK: 2 processes with command name 'ido2db'

7 Matching Service Entries Displayed

Icinga - Classic UI

Current Event Log

Last Updated: Sun Jun 3 12:48:37 CEST 2012
icinga 1.7.0 - Logged in as icingaadmin

Latest Archive



Log Navigation

Sun May 27 00:00:00 CEST 2012
to
Present..

Filters:

Search:

Entries:

Order: ☒ Newer Entries First | ☐ Older Entries First

Timeperiod:

on off Type

- ☒ ☐ Notifications
- ☒ ☐ Host Status
- ☒ ☐ Service Status
- ☐ ☐ External Commands
- ☐ ☒ System Messages
- ☒ ☐ Event Handler
- ☒ ☐ Flapping
- ☒ ☐ Downtime

Entry Type:

June 03, 2012 12:00

- [2012-06-03 12:48:32] SERVICE ALERT: HOSTCHECKMK;NTP;OK;HARD;1;NTP OK: Offset -0.009846 secs
- [2012-06-03 12:48:12] SERVICE ALERT: HOSTICINGA;Syslog;CRITICAL;SOFT;3;CRITICAL - (1 errors in check_logfiles.protocol-2012-06-03-12-48-09) - Jun 3 12:47:12 tfnoc-icinga icinga: SERVICE ALERT: HOSTICINGA;Syslog;CRITICAL;SOFT;2;CRITICAL - (1 errors in check_logfiles.protocol-2012-06-03-12-47-09) - Jun 3 12:46:12 tfnoc-icinga icinga: SERVICE ALERT: HOSTICINGA;Syslog;CRITICAL;SOFT;1;CRITICAL - (1 errors in check_logfiles.protocol-2012-06-03-12-46-10) - Jun 3 12:46:02 tfnoc-icinga icinga: SERVICE ALERT: HOSTICINGA;Syslog;OK;HARD;5;OK - no errors or warnings
- [2012-06-03 12:47:47] HOST ALERT: host_11;DOWN;SOFT;1;host_11 (checked by tfnoc-icinga) FLAP: flap hostcheck down
- [2012-06-03 12:47:12] SERVICE ALERT: HOSTICINGA;Syslog;CRITICAL;SOFT;2;CRITICAL - (1 errors in check_logfiles.protocol-2012-06-03-12-47-09) - Jun 3 12:46:12 tfnoc-icinga icinga: SERVICE ALERT: HOSTICINGA;Syslog;CRITICAL;SOFT;1;CRITICAL - (1 errors in check_logfiles.protocol-2012-06-03-12-46-10) - Jun 3 12:46:02 tfnoc-icinga icinga: SERVICE ALERT: HOSTICINGA;Syslog;OK;HARD;5;OK - no errors or warnings
- [2012-06-03 12:47:02] SERVICE ALERT: host_13;random_0;WARNING;HARD;3;host_13 (checked by tfnoc-icinga) WARNING: random random_0 unchanged
- [2012-06-03 12:46:52] SERVICE ALERT: HOSTICINGA;APT;OK;SOFT;2;APT OK: 0 packages available for upgrade (0 critical updates).
- [2012-06-03 12:46:12] SERVICE ALERT: HOSTICINGA;Syslog;CRITICAL;SOFT;1;CRITICAL - (1 errors in check_logfiles.protocol-2012-06-03-12-46-10) - Jun 3 12:46:02 tfnoc-icinga icinga: SERVICE ALERT: HOSTICINGA;Syslog;OK;HARD;5;OK - no errors or warnings
- [2012-06-03 12:46:02] SERVICE ALERT: HOSTICINGA;APT;CRITICAL;SOFT;1;CRITICAL - Plugin timed out after 10 seconds
- [2012-06-03 12:46:02] SERVICE ALERT: HOSTICINGA;Syslog;OK;HARD;5;OK - no errors or warnings
- [2012-06-03 12:45:02] SERVICE ALERT: HOSTNSCA;5min-report;OK;HARD;1;cron ran ok, sending report ... 3 ... 2 ... 1 ... b00m!
- [2012-06-03 12:44:57] SERVICE ALERT: host_13;random_0;WARNING;SOFT;2;host_13 (checked by tfnoc-icinga) WARNING: random random_0 unchanged
- [2012-06-03 12:44:32] SERVICE ALERT: host_10;flap_0;OK;SOFT;2;host_10 (checked by tfnoc-icinga) FLAP: up flap_0 up
- [2012-06-03 12:44:22] SERVICE ALERT: host_08;flap_4;OK;SOFT;2;host_08 (checked by tfnoc-icinga) FLAP: up flap_4 up
- [2012-06-03 12:42:02] SERVICE ALERT: HOSTNRPE;NRPE Total Procs;WARNING;HARD;5;PROCS WARNING: 164 processes
- [2012-06-03 12:41:57] SERVICE ALERT: HOSTICINGA;HTTP Tomcat;OK;SOFT;2;HTTP OK: HTTP/1.1 200.OK - 8024 bytes in 0.010 second response time

Icinga - IDOUtils

- ▶ MySQL støtte
 - ▶ Omskrevet til libdbi som db abstraksjonslag
- ▶ Oracle støtte
 - ▶ Basert på OCILIB
- ▶ Postgresql støtte
 - ▶ Basert på libdbi
 - ▶ Omskrevet MySQL spesifikke spørringer til UPDATE eller INSERT
- ▶ Automatisk db versjonssjekk
 - ▶ For oppgraderingssikkerhet

Icinga - Dokumentasjon

► Dokumentasjon

- Docbook på engelsk og tysk.
- Dokumentasjon basert på tilbakemeldinger fra testing og installasjon
- Kommando liste, utvidede CGI parametere, osv
- PNP som standard grafløsning

► Wiki

- Installasjonsguider for forskjellige plattformer
- Addon dokumentasjon- og installasjons-guider

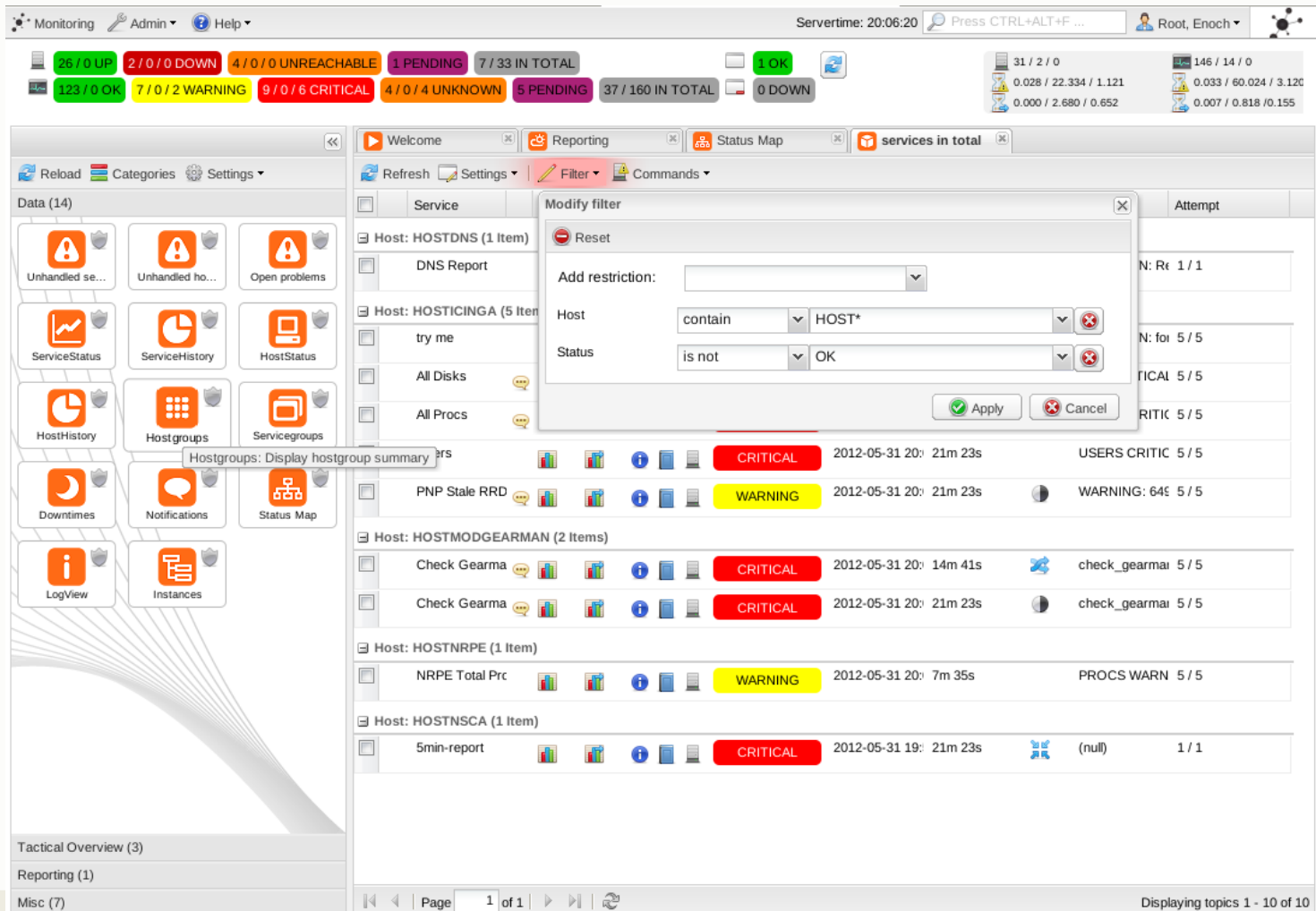
Icinga - Web

- ▶ Utviklet fra bunn
- ▶ Basert på Agavi MVC & Sencha (tidligere EXTJS)
- ▶ IDOUtils RDBMS som datasource
 - ▶ Therefore support for MySQL, Postgresql, Oracle
 - ▶ Doctrine basert abstraksjonslag supporterer forskjellige databaser med enklere konfigurasjon
- ▶ Cronks == widgets
- ▶ Dynamiske dashboard
- ▶ Live search

Icinga - Web

- ▶ Sorter og grupper data etter kolonner
- ▶ Filtrer dataene i detalj
 - ▶ Eks: alle kritiske tjenester basert på icinga instans
 - ▶ Autofullfør mens du skriver
- ▶ Send kommandoer til flere hosts/services ved å huke av i sjekkboksene.
- ▶ Se host eller service detaljer i samme vindu
- ▶ Utvidet objekt informasjonsboks
 - ▶ Status, relasjoner og referanser

Icinga - Web



The screenshot displays the Icinga Web interface. At the top, a status bar shows overall monitoring metrics: 26/0 UP, 2/0/0 DOWN, 4/0/0 UNREACHABLE, 1 PENDING, 7/33 IN TOTAL, 1 OK, 123/0 OK, 7/0/2 WARNING, 9/0/6 CRITICAL, 4/0/4 UNKNOWN, 5 PENDING, 37/160 IN TOTAL, and 0 DOWN. A 'Modify filter' dialog is open, showing a 'Reset' button and fields for 'Host' (contain HOST*) and 'Status' (is not OK). The main content area lists hosts and their services, including HOSTDNS, HOSTICINGA, HOSTMODGEARMAN, HOSTNRPE, and HOSTNSCA, with various status indicators like CRITICAL and WARNING.

Monitoring Admin Help

Servertime: 20:06:20 Press CTRL+ALT+F ... Root, Enoch

26 / 0 UP 2 / 0 / 0 DOWN 4 / 0 / 0 UNREACHABLE 1 PENDING 7 / 33 IN TOTAL 1 OK 123 / 0 OK 7 / 0 / 2 WARNING 9 / 0 / 6 CRITICAL 4 / 0 / 4 UNKNOWN 5 PENDING 37 / 160 IN TOTAL 0 DOWN

31 / 2 / 0 0.028 / 22.334 / 1.121 0.000 / 2.680 / 0.652 146 / 14 / 0 0.033 / 60.024 / 3.120 0.007 / 0.818 / 0.155

Welcome Reporting Status Map services in total

Reload Categories Settings

Data (14)

Unhandled se... Unhandled ho... Open problems

ServiceStatus ServiceHistory HostStatus

HostHistory Hostgroups Servicegroups

Hostgroups: Display hostgroup summary

Downtimes Notifications Status Map

LogView Instances

Host: HOSTDNS (1 Item)

DNS Report

Host: HOSTICINGA (5 Items)

try me

All Disks

All Procs

Modify filter

Reset

Add restriction:

Host contain HOST*

Status is not OK

Apply Cancel

CRITICAL 2012-05-31 20: 21m 23s USERS CRITIC 5 / 5

WARNING 2012-05-31 20: 21m 23s WARNING: 64% 5 / 5

Host: HOSTMODGEARMAN (2 Items)

Check Gearma CRITICAL 2012-05-31 20: 14m 41s check_gearma 5 / 5

Check Gearma CRITICAL 2012-05-31 20: 21m 23s check_gearma 5 / 5

Host: HOSTNRPE (1 Item)

NRPE Total Prc WARNING 2012-05-31 20: 7m 35s PROCS WARN 5 / 5

Host: HOSTNSCA (1 Item)

5min-report CRITICAL 2012-05-31 19: 21m 23s (null) 1 / 1

Tactical Overview (3)

Reporting (1)

Misc (7)

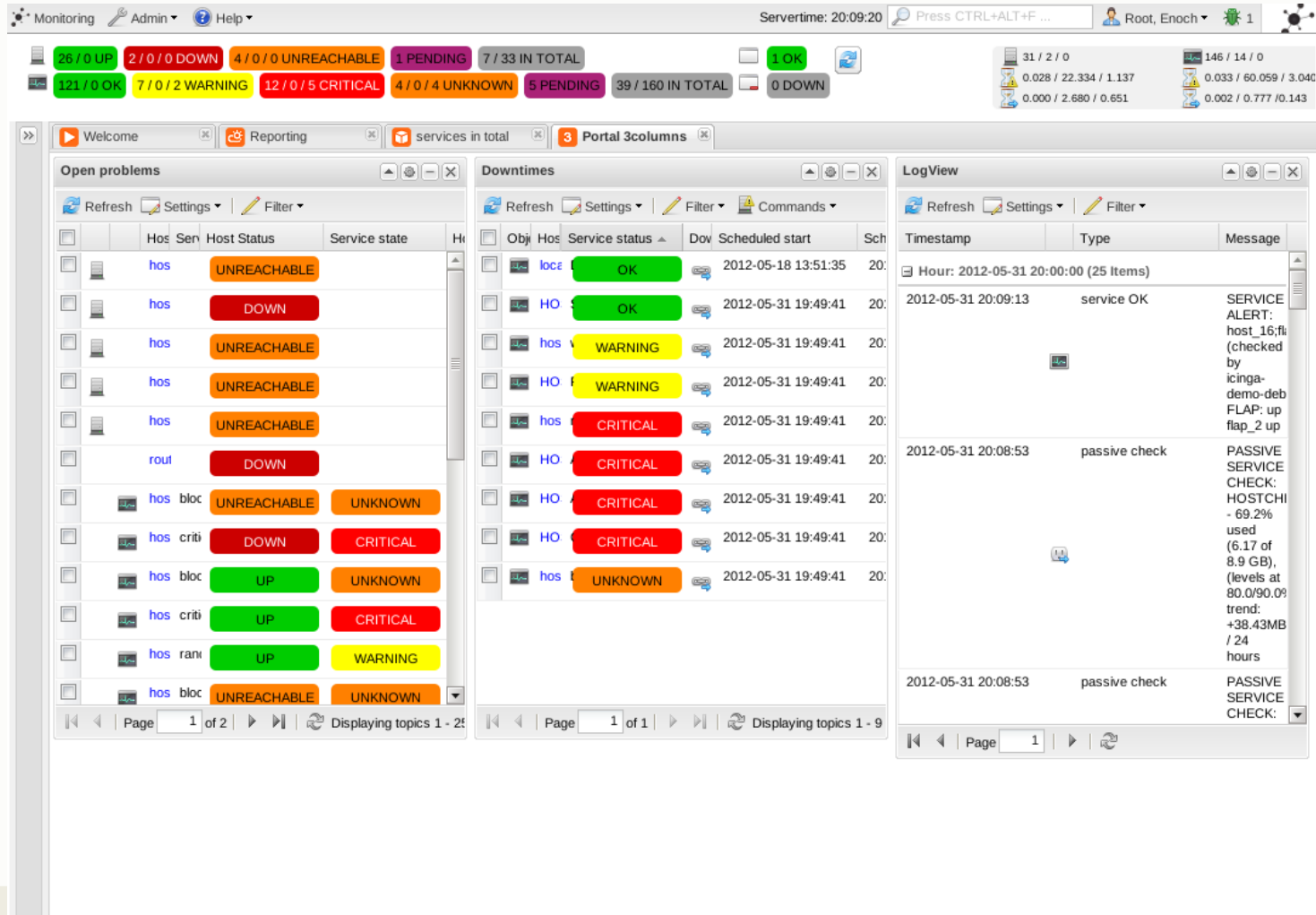
Page 1 of 1

Displaying topics 1 - 10 of 10

Icinga - Web

- ▶ Dine egne visninger – Cronks kan
 - ▶ Dras og slippes
 - ▶ Tilpasse, endre størrelse og minimeres
 - ▶ Lagret, eksportert og delt
- ▶ Multi kolonne oppsett
 - ▶ Kombiner flere cronks til en
- ▶ Brukerhåndtering
 - ▶ Standard kontakter og kontaktgruppe oppsett
 - ▶ Utvidete rettigheter basert på host- og servicegroups.
 - ▶ Begrens adgang til ved hjelp av „custom variables“.
 - ▶ Enkel administrasjon av komplekse tilgangregler.

Icinga - Web



The screenshot displays the Icinga Web interface with the following components:

- Top Bar:** Monitoring | Admin | Help | Servertime: 20:09:20 | Press CTRL+ALT+F ... | Root, Enoch | 1
- Status Summary:**
 - 26 / 0 UP, 2 / 0 / 0 DOWN, 4 / 0 / 0 UNREACHABLE, 1 PENDING, 7 / 33 IN TOTAL
 - 121 / 0 OK, 7 / 0 / 2 WARNING, 12 / 0 / 5 CRITICAL, 4 / 0 / 4 UNKNOWN, 5 PENDING, 39 / 160 IN TOTAL, 0 DOWN
 - 31 / 2 / 0, 0.028 / 22.334 / 1.137, 0.000 / 2.680 / 0.651
 - 146 / 14 / 0, 0.033 / 60.059 / 3.040, 0.002 / 0.777 / 0.143
- Open problems:**

Hos	Sen	Host Status	Service state
hos		UNREACHABLE	
hos		DOWN	
hos		UNREACHABLE	
hos		UNREACHABLE	
hos		UNREACHABLE	
hos		DOWN	
hos	bloc	UNREACHABLE	UNKNOWN
hos	criti	DOWN	CRITICAL
hos	bloc	UP	UNKNOWN
hos	criti	UP	CRITICAL
hos	rami	UP	WARNING
hos	bloc	UNREACHABLE	UNKNOWN
- Downtimes:**

Obj	Hos	Service status	Dow	Scheduled start	Sch
loc		OK		2012-05-18 13:51:35	20:
HO		OK		2012-05-31 19:49:41	20:
hos		WARNING		2012-05-31 19:49:41	20:
HO		WARNING		2012-05-31 19:49:41	20:
hos		CRITICAL		2012-05-31 19:49:41	20:
HO		CRITICAL		2012-05-31 19:49:41	20:
HO		CRITICAL		2012-05-31 19:49:41	20:
HO		CRITICAL		2012-05-31 19:49:41	20:
hos		UNKNOWN		2012-05-31 19:49:41	20:
- LogView:**

Timestamp	Type	Message
Hour: 2012-05-31 20:00:00 (25 items)		
2012-05-31 20:09:13	service OK	SERVICE ALERT: host_16:fl (checked by icinga-demo-deb FLAP: up flap_2 up
2012-05-31 20:08:53	passive check	PASSIVE SERVICE CHECK: HOSTCHI - 69.2% used (6.17 of 8.9 GB), (levels at 80.0/90.0) trend: +38.43MB / 24 hours
2012-05-31 20:08:53	passive check	PASSIVE SERVICE CHECK:

Icinga - Web

Monitoring Admin Help

Servtime: 20:17:03 Root, Enoch

Available users

Refresh Remove selected Add new role sembunyi tidak

ID	username	lastname	firstname	email	active
1	root	Root	Enoch	root@localhost.local	

Edit user

General information

User name: tfnoc

Name: taskforce Surname: terena

Email: tfnoc@task.force

Disabled: ☐

Oten via: internal

Change Password

Password:

Confirm password:

Authkey for Api (optional): tfnoc

Meta information

Created:

Modified:

Credentials Roles Hostgroup Servicegroup

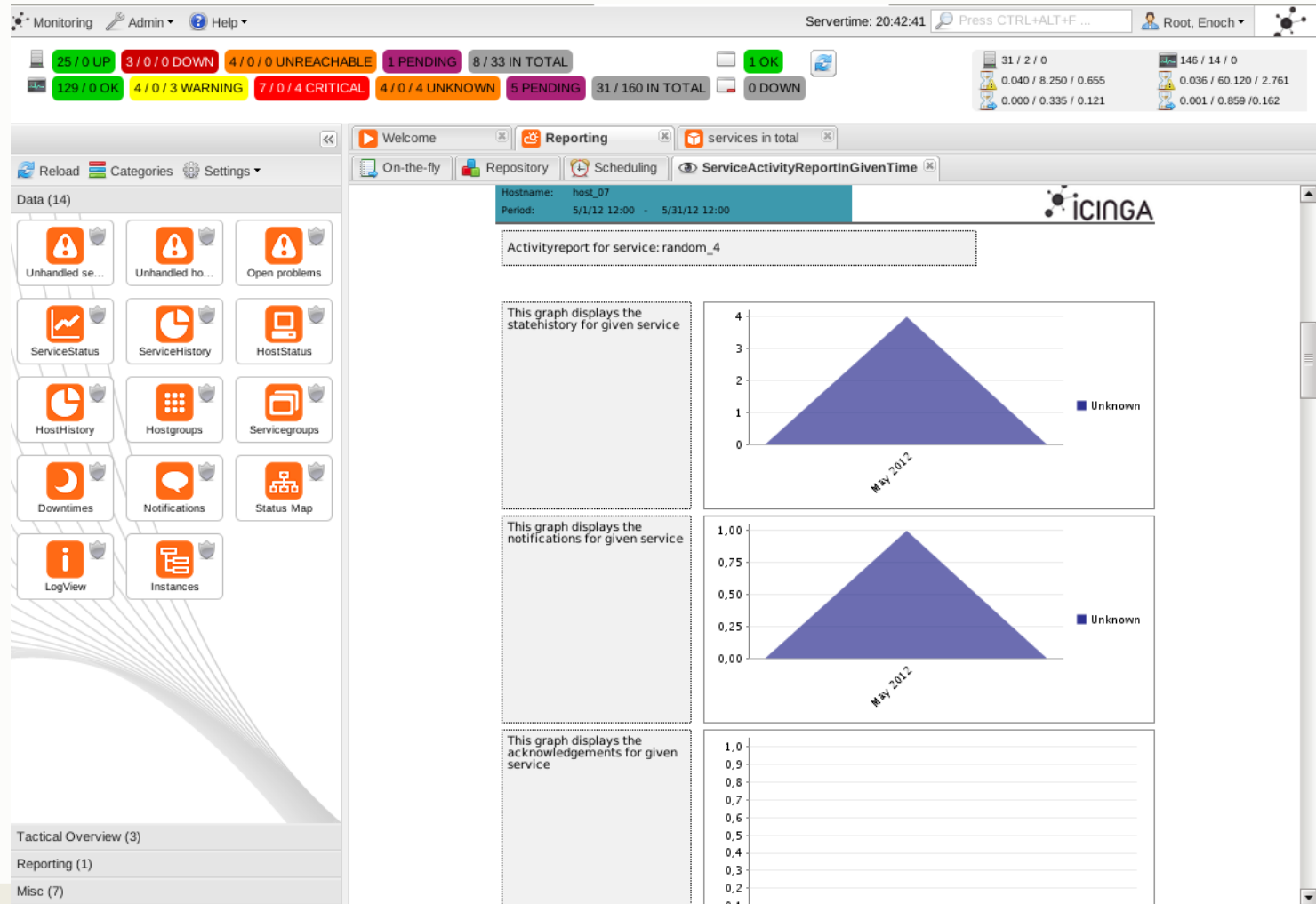
Define credentials and access rights to this user here

Credential	Description
☒ appkit.access	Access to login-page (which, actually, means no acce
☒ icinga.user	Access to icinga
☐ appkit.admin.groi	Access to group related data (e.g. share crons)
☐ appkit.admin.use	Access to user related data (provider)
☐ appkit.admin	Access to admin panel
☒ appkit.user.dumr	Basic right for users
☒ appkit.api.access	Access to web-based api adapter

Ciptakan user

Done

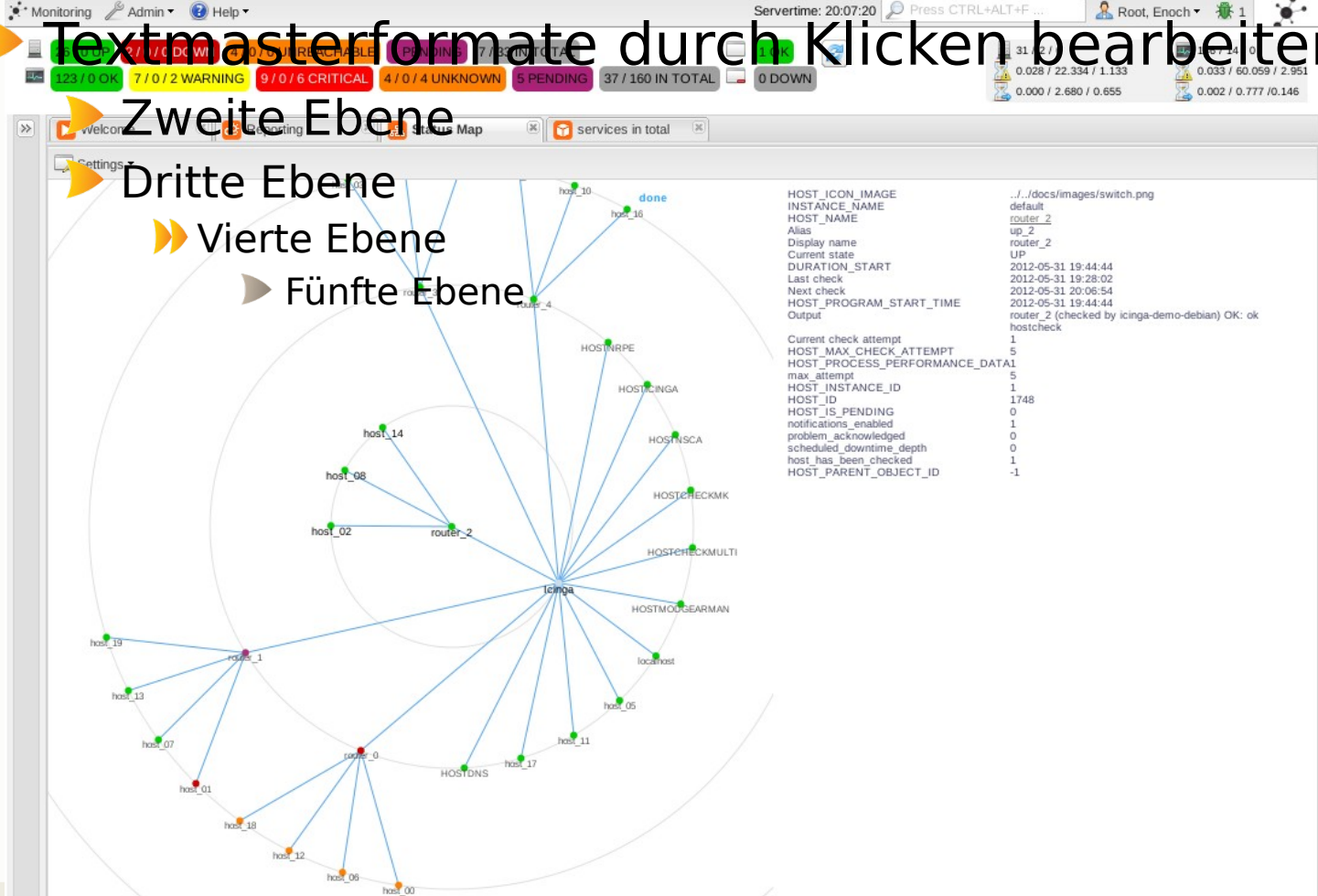
Icinga - Web



Icinga - Web

- ▶ Eget modul interface
 - ▶ Frittstående modulkonfigurasjon og installasjon
- ▶ Statuskart
 - ▶ Skalerbart og forstørrbart
 - ▶ Animert sentrering
- ▶ Integrasjon med Addons
 - ▶ pnp4Nagios (contrib mappen)
 - ▶ Business Process Cronk
 - ▶ Lconf Config Editor Cronk
 - ▶ inGraph

Icinga - Web



The screenshot shows the Icinga web interface. At the top, there's a status bar with various colored buttons (OK, WARNING, CRITICAL, UNKNOWN, PENDING, DOWN) and a summary of 37/160 IN TOTAL. Below this is a 'Status Map' showing a hierarchical tree of hosts and services. The tree is organized into five levels, indicated by arrows and text labels: 'Zweite Ebene' (Second Level), 'Dritte Ebene' (Third Level), 'Vierte Ebene' (Fourth Level), and 'Fünfte Ebene' (Fifth Level). The 'Fünfte Ebene' is the most detailed, showing individual host and service status. On the right side, there's a 'services in total' panel showing a list of services and their status. Below this, a 'Host Details' panel shows a table of host information, including host name, instance name, alias, display name, current state, duration start, last check, next check, host program start time, output, current check attempt, host max check attempt, host process performance data, max attempt, host instance ID, host ID, host is pending, notifications enabled, problem acknowledged, scheduled downtime depth, host has been checked, and host parent object ID.

► Textmasterformate durch Klicken bearbeiten

► Zweite Ebene

► Dritte Ebene

► Vierte Ebene

► Fünfte Ebene

Icinga - Mobile

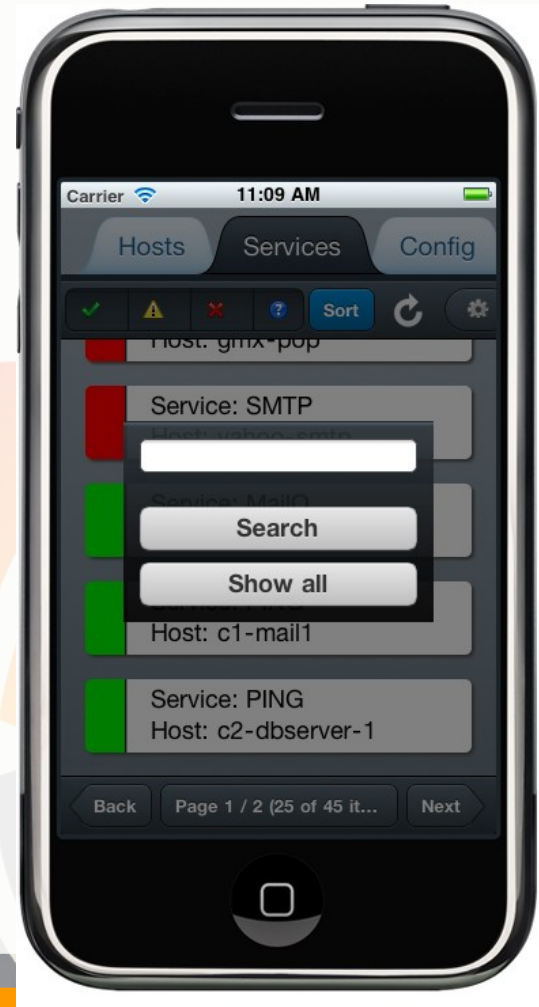
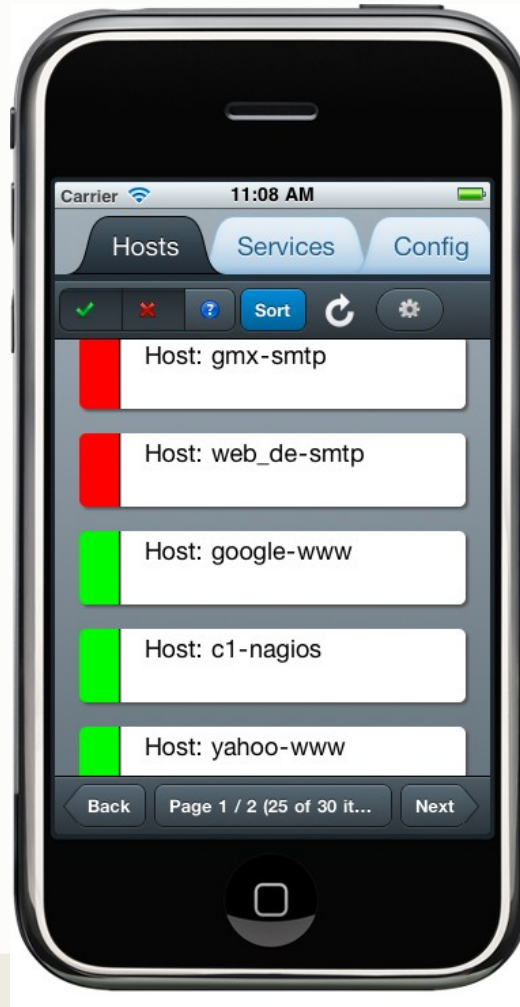
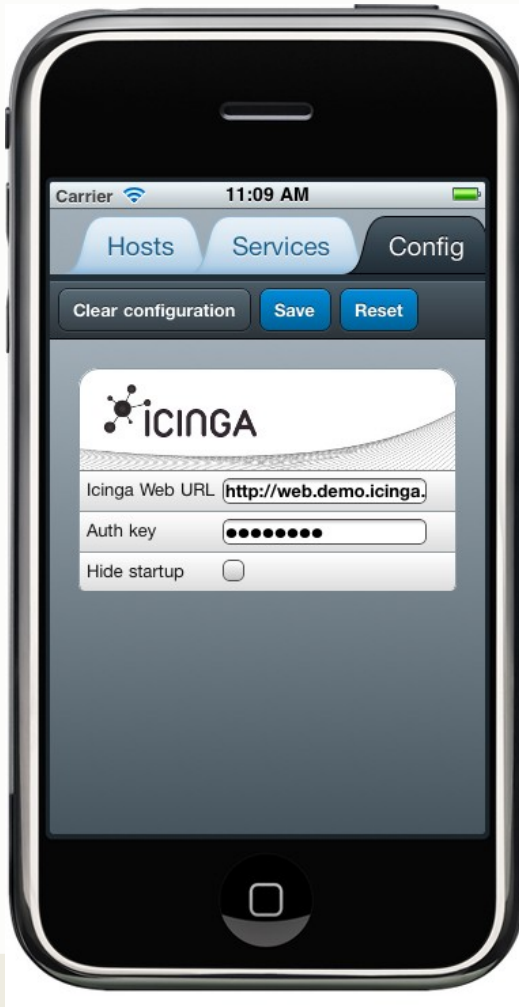
► Fakta

- Skrevet i JavaScript
- Bruker Sencha Touch
- Krever ingen installasjon på enheten – kun URL (bokmerke)
- Bruker Icinga Web REST API'et

► Funksjoner

- Autentisering med API nøkkel som automatisk påfører rettigheter og innstillinger for sesjonen
- Lokal lagring av innstillinger på enheten
- Sentrale oppdateringer blir automatisk oppdatert til alle Icinga Mobile brukere

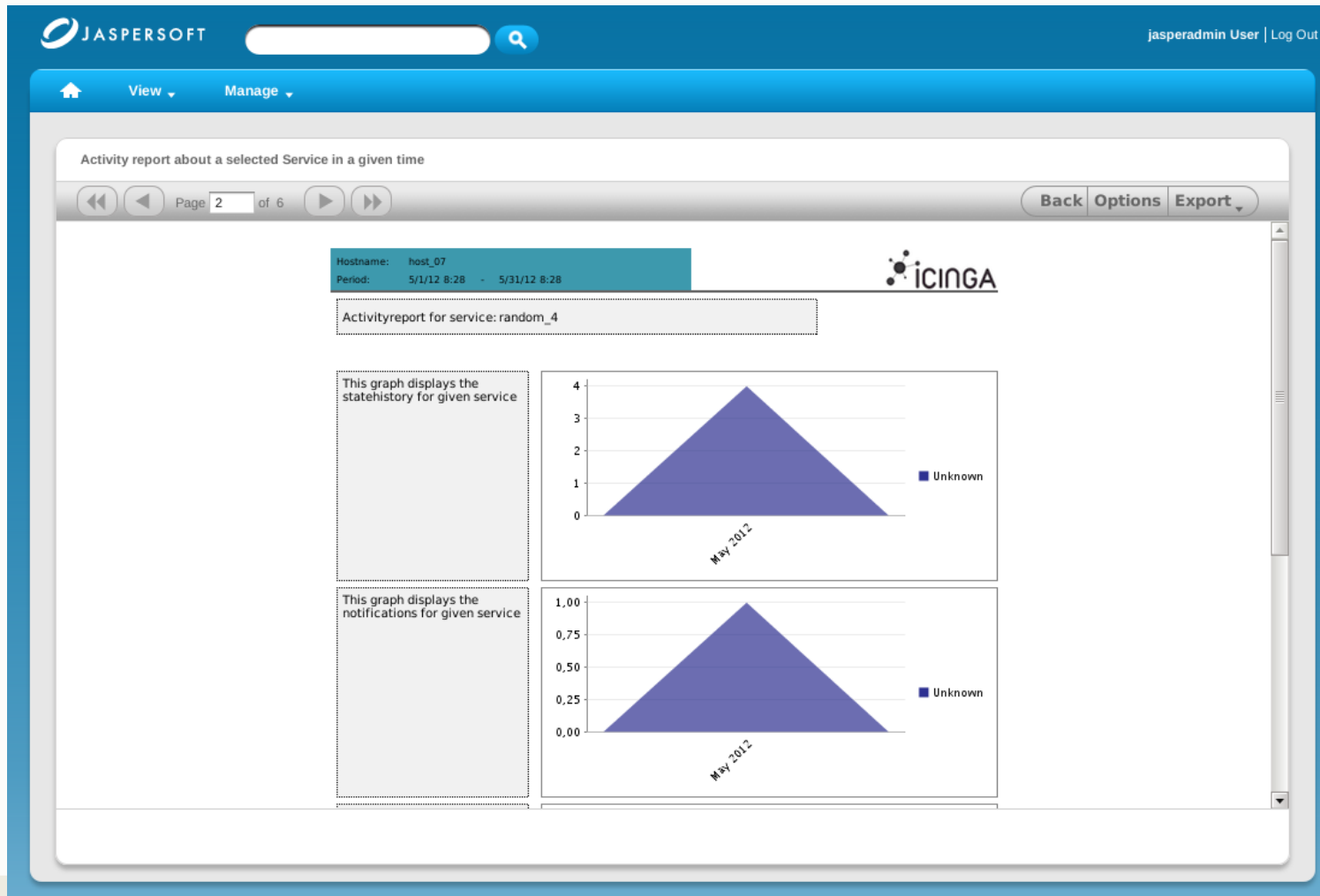
Icinga - Mobile



Icinga - Reporting

- ▶ Basert på Jasper Reports
- ▶ Forskjellige rapporteringsmaler inkludert
 - ▶ Top 10 problematiske hosts eller services
 - ▶ Groups, hosts or services tilgjengelighets rapport
 - ▶ Acknowledgement rapport
- ▶ SOAP interface brukt i Icinga Web
 - ▶ Legg til din egen app!
- ▶ Lag dine egne rapporter med iReport

Icinga - Reporting



Icinga Addons & Plugins

- ▶ Grafer
 - ▶ pnp4Nagios, inGraph
- ▶ Transport & Interfaces
 - ▶ check_multi, mod_gearman
 - ▶ NRPE, NSCA, NSClient++, check_mk
- ▶ Konfigurasjon
 - ▶ Nagiosql, NConf, Lconf
 - ▶ NoMa
 - ▶ Puppet, Chef
- ▶ GUI & visualisering
 - ▶ NagVis, NagStamon, aNag

Icinga Addons & Plugins

► Plugins

- Nagios Plugins fungerer fortsatt ^
- <https://wiki.icinga.org/display/howtos/Plugins>
- Dine egne...

► Plugin ressurser

- <https://www.monitoringexchange.org>
- <https://wiki.icinga.org/display/howtos/Plugin+Collections>

Icinga Packages

- ▶ Enhancements
 - ▶ Many flags and changes to make packaging easy
 - ▶ Spec file provided
- ▶ Packagers join Team Icinga
 - ▶ Pre-package builds on release
 - ▶ Easier communication on changes
 - ▶ <https://www.icinga.org/download/packages/>
- ▶ Icinga integrated into OMD
 - ▶ Core & Classic UI
 - ▶ No Database support in OMD -> no Icinga Web

Veikart

- ▶ Planlagte eventer
 - ▶ Open Source Monitoring Conference 2012 - Tyskland
- ▶ Ytterligere en versjon planlagt for 2012
 - ▶ 10/17/2012 - 1.8

Fremtiden?

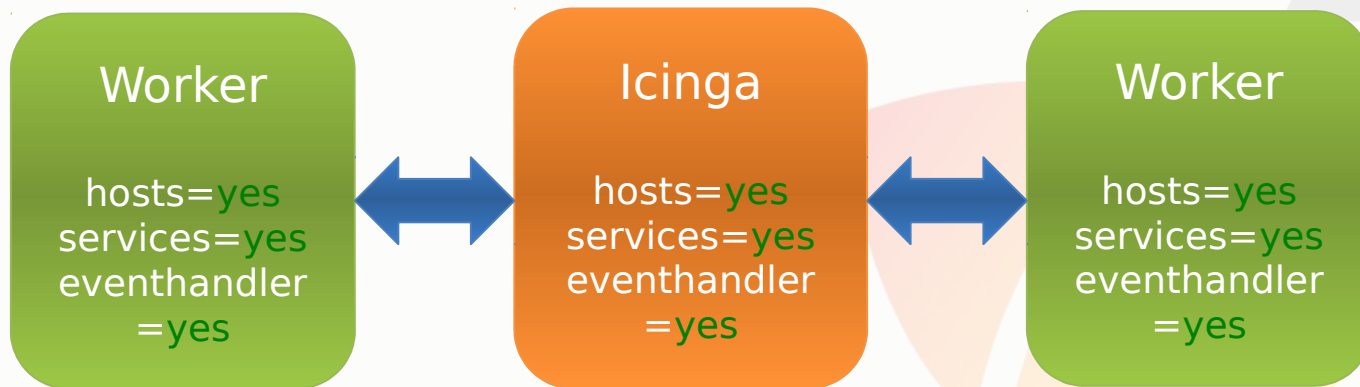
- ▶ Feature Release 1.8
 - ▶ Utvidet rapportering til Postgresql/Oracle
- ▶ Ytelsesforbedringer
 - ▶ Optimisert behandling av sjekkresultater
- ▶ Forenklet installasjonsprosess
 - ▶ Pakker fra pakkebrønner
- ▶ Prototype Message Queuing Systems
 - ▶ APIs, Message Bus Systems
- ▶ Maintenance Release 1.9

Addons – mod_gearman

- mod_gearman er en enkel måte å distribuere sjekker lokalt og eksternt i miljøet.
 - Bruker Gearman som køtjeneste
- Regelbasert distribusjon av sjekker
- Mer effektiv eksekvering av sjekkene enn via Core i større miljøer
- Mulliggjør aggressive sjekker (hvert sekund og oftere) av tjenester i stor skala
- En konfigurasjon for hele miljøet

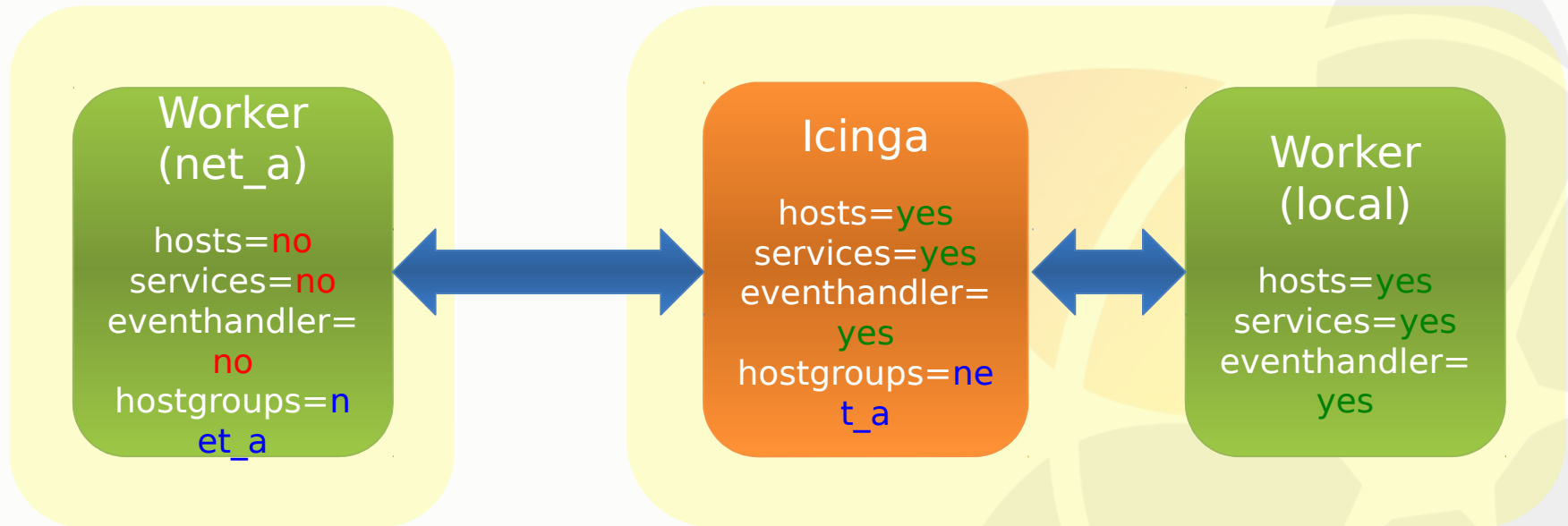
Addons – mod_gearman

► Lastbalansert



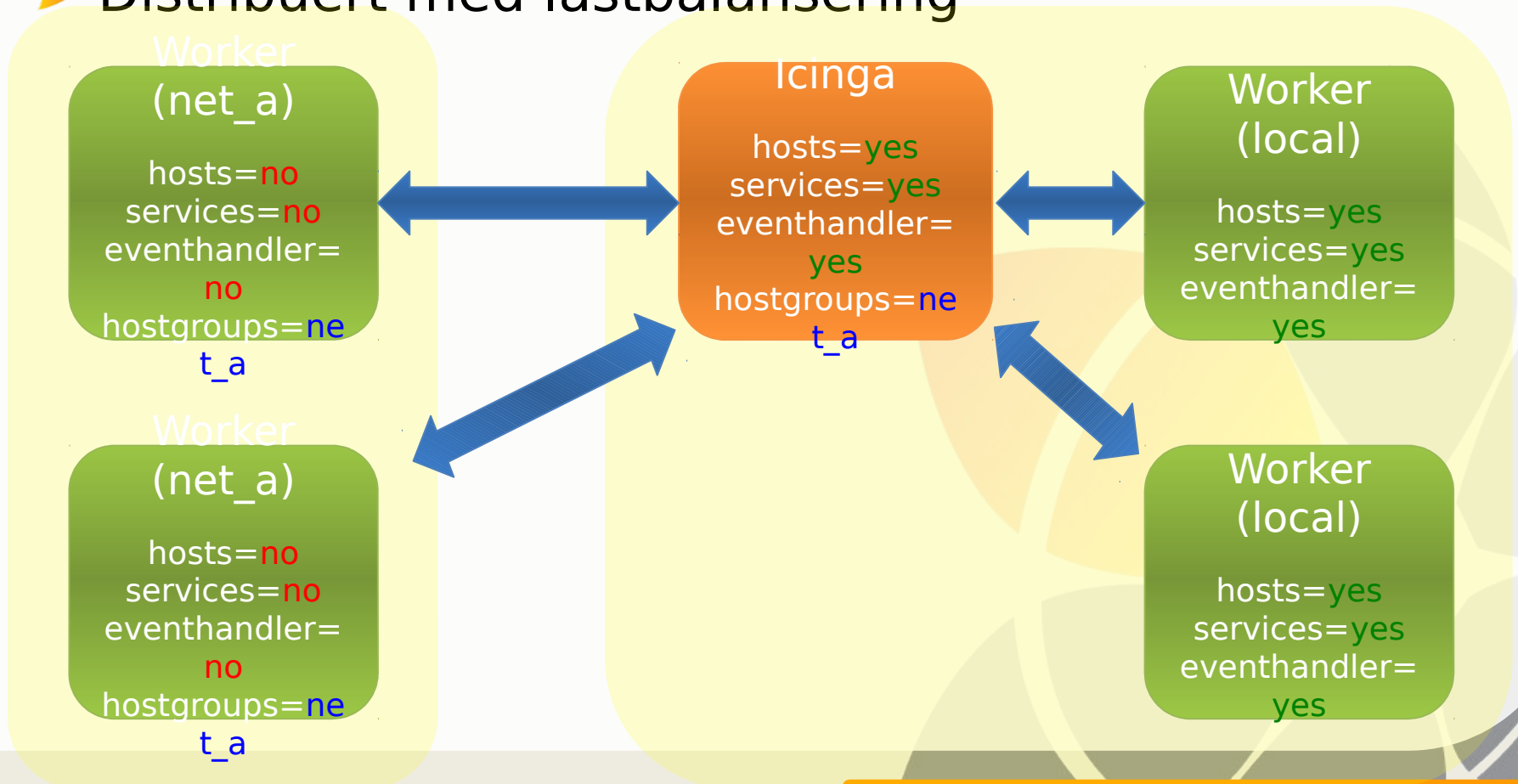
Addons – mod_gearman

► Distribuerte sjekker



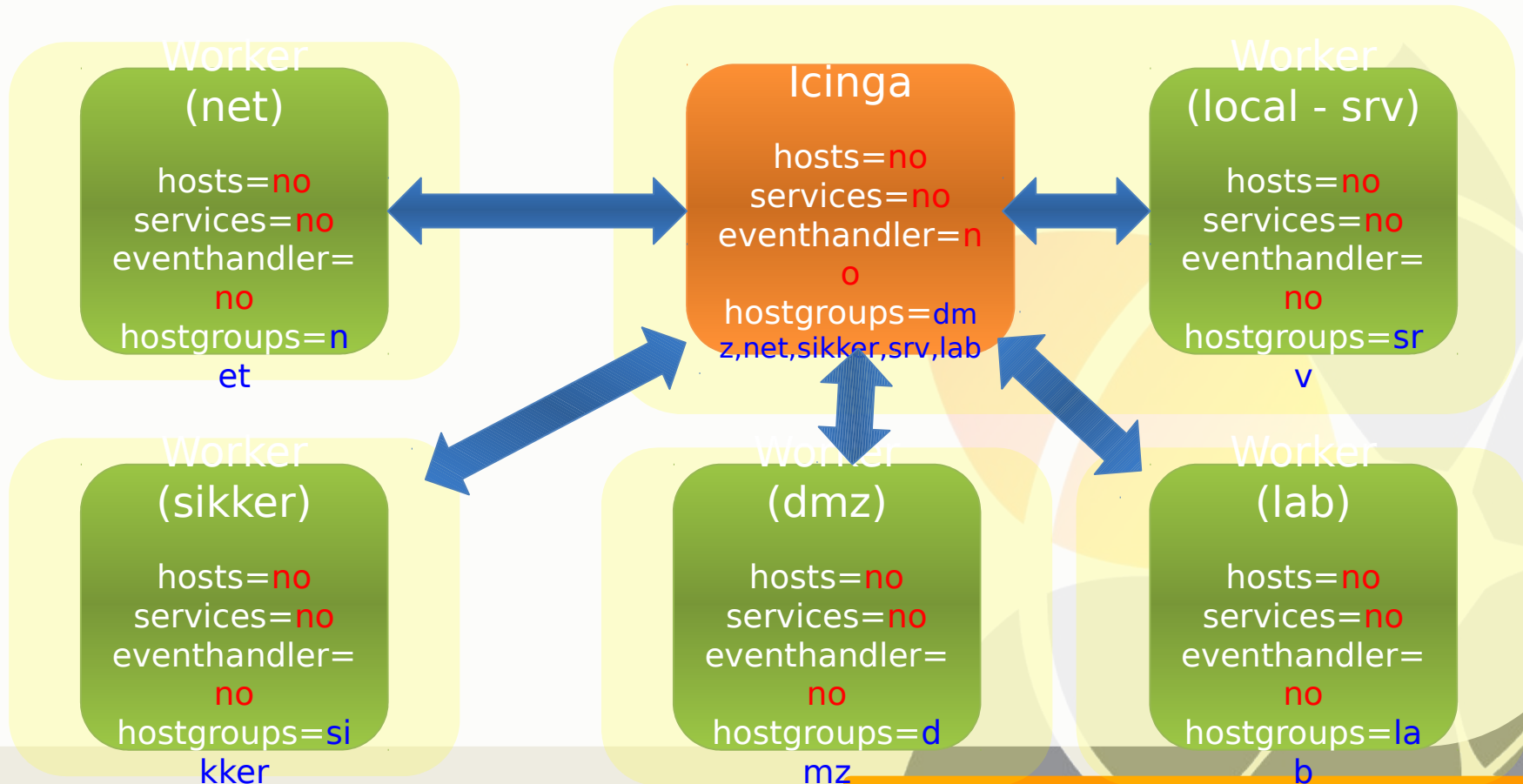
Addons – mod_gearman

► Distribuert med lastbalansering



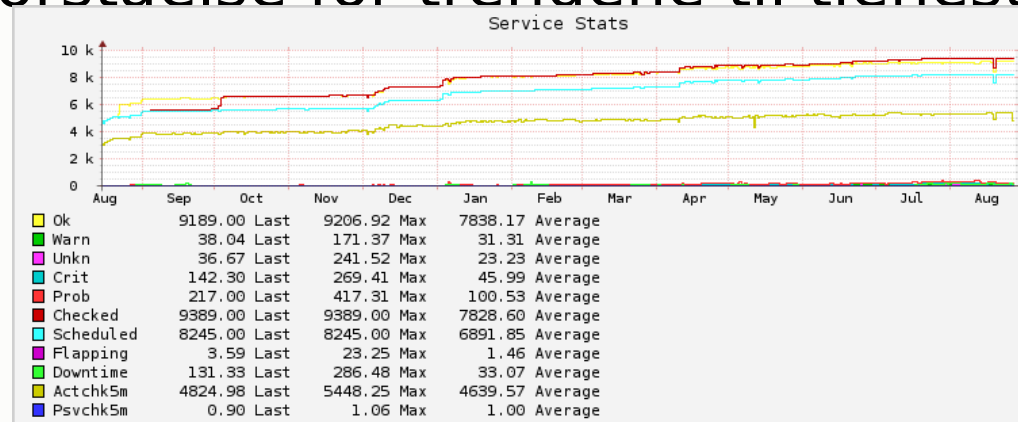
Addons – mod_gearman

► Eks fra Bærum kommune:



Addons – pnp4Nagios

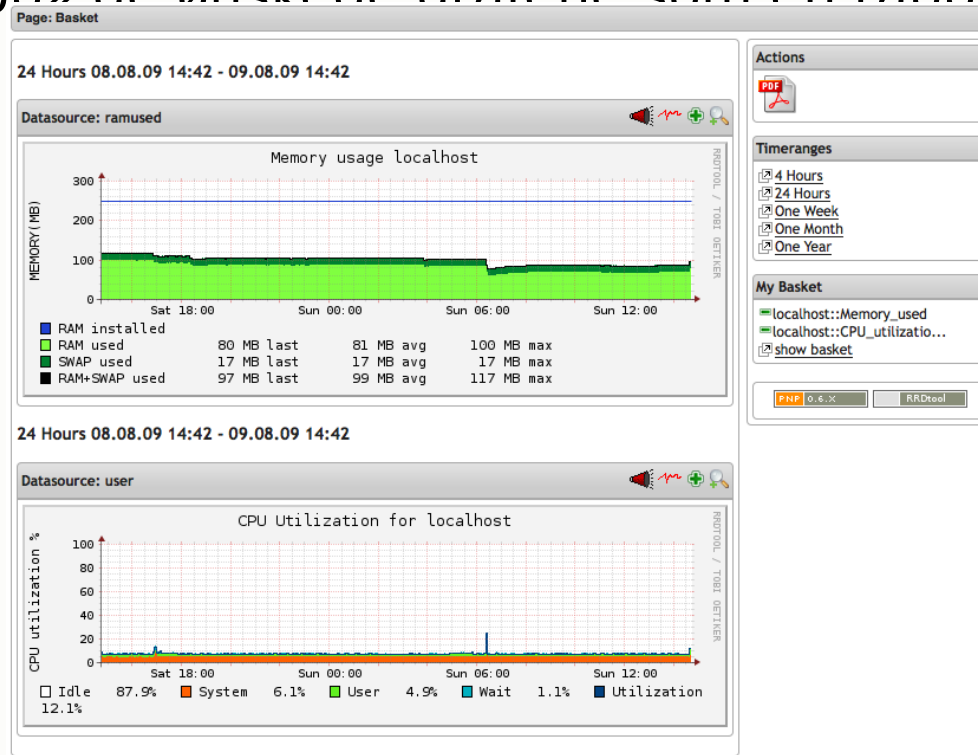
- Lager grafer basert på performance data fra Icinga
- Lettere forståelse for trendene til tjenestene



Addons – pnp4Nagios

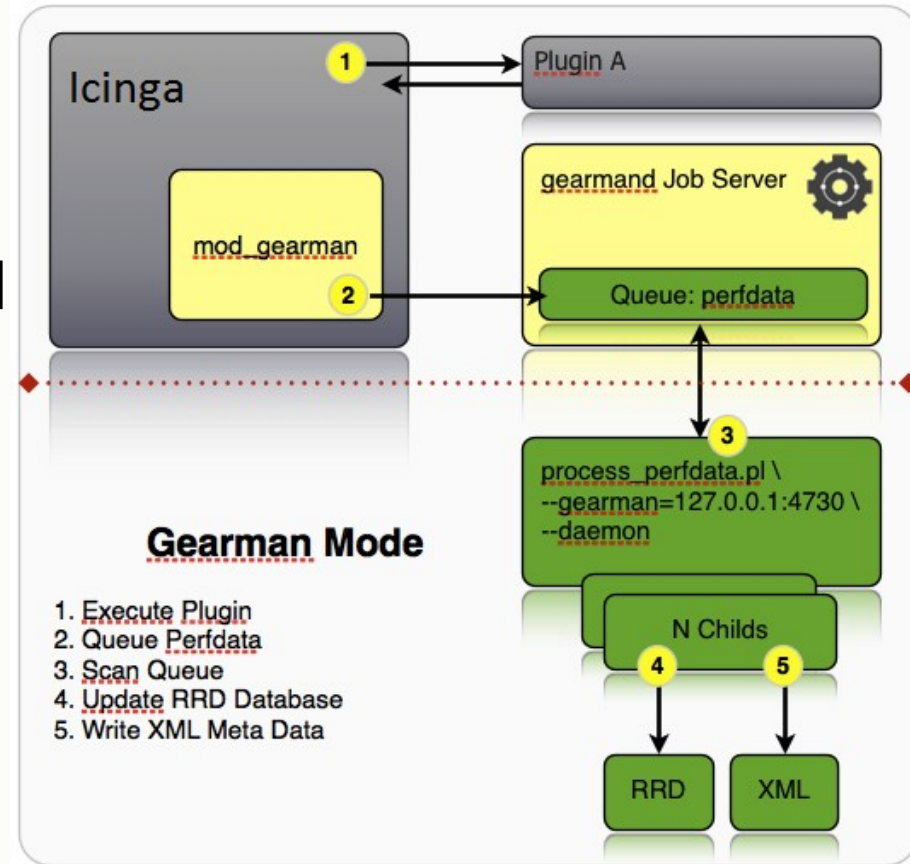
► Handlekurvfunksjonalitet

► «Kjøp» de ønskede grafene som en rapport, f eks PDF



Addons – pnp4Nagios

- Støtte for mod_gearman
- Rå ytelse med rrdcached



Addons - NoMa

- ▶ Frittstående tjeneste for varsling
- ▶ Webgrensesnittet gir enkel oversikt over komplekse regler for varsling.

Selection based on filter

Overview Notification Profile LOGOUT

NoMa

No.↓	Name	Actions	Recipients	Servicegroups	Hostgroups	Hosts	Services	Owner	Filter on	Notify by	Notify users
5	test	  						guest			
7		  						guest	Host: d, u Service: c	E-Mail SMS	guest Grp:group1
8		  				*		guest			
9		  				*c1*		guest			
10		  				c1-*		guest			
12		  						guest	Host: o Service: c	E-Mail	nagiosadmin Grp:group1
13	abvcdserver	  						guest	Host: o, d, u Service: o, u	E-Mail	
14	nuug-svc	  			sles11,sles10,rhel6-prod,mailsrv-prod lab-srv			guest	Host: o, d, u Service: o Type: FS, fs, fd, DS, ds, dc, A, C	E-Mail Growl SMS	nagiosadmin

NoMa 2.0.3 | www.netways.de

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This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 3.

Addons - NoMa

- Varslingsmottager kan selv oppdatere detaljer om sin profil

Name:

Full name:

User login:

Password:

Password (verification):

Contact:

E-Mail:

Phone:

Mobile:

Growl address:

Register with Growl(test notification): ☐

Suppress multiple alerts: ☐

Time:

Working hours:

Timezone:

Holidays:

Add holiday name:

Holiday start:

Holiday end:

- Avansert filtrering uten å grave seg ned i konfigurasjonsfiler

Notify by:

Recovery ☐ Service OK ☐ Host Up

Problem ☐ Warning ☐ Unknown ☐ Critical
☐ Host Unreachable ☐ Host Down

Filter on: Problem transitions ☐ Warning to critical ☐ Warning to unknown
☐ Critical to warning ☐ Critical to unknown
☐ Unknown to warning ☐ Unknown to critical

Other ☐ Flapping started ☐ Flapping stopped ☐ Flap detection disabled
☐ Downtime started ☐ Downtime ended ☐ Downtime cancelled
☐ Acknowledgement ☐ Custom

Addons - NagVis

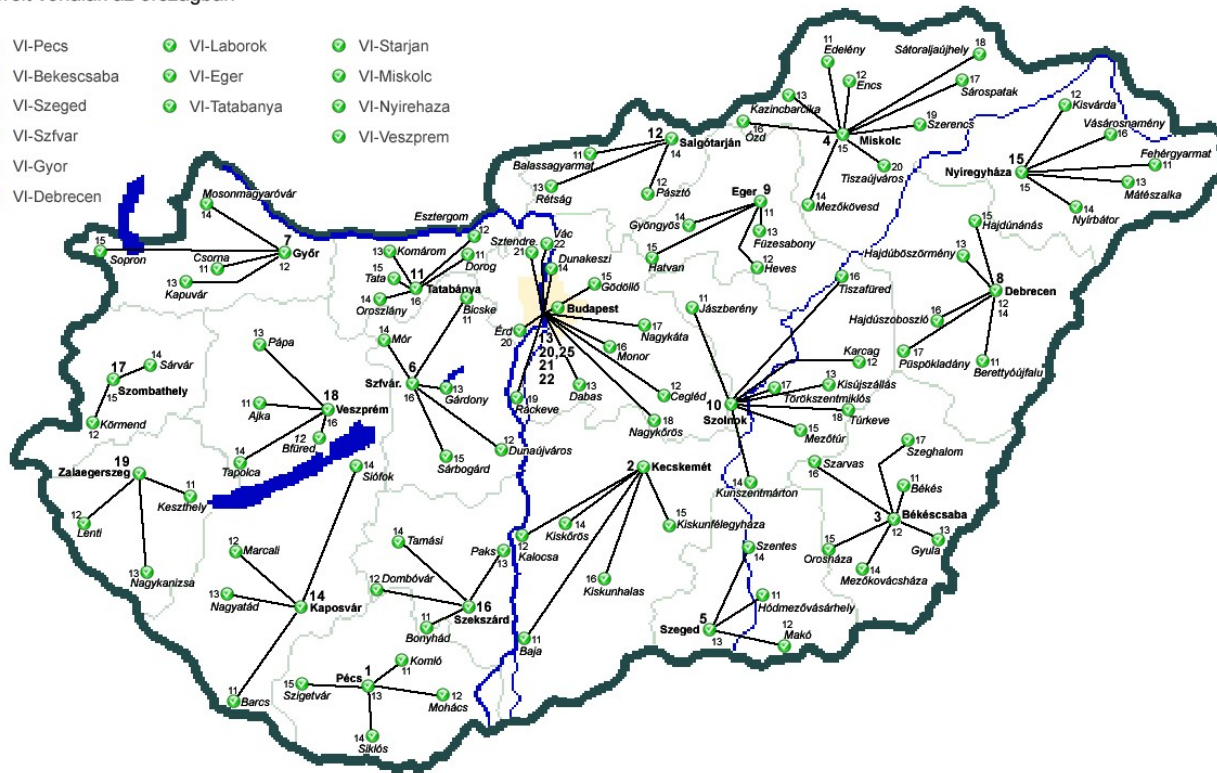
- ▶ Grafisk presentasjon av dataene basert på bakgrunner og ikoner
- ▶ Støtter IDOUtils
- ▶ Mulighet for autogenerering av «kart» basert på forhold mellom hoster
- ▶ Gir visuell og hørbart varsel ved endring, autooppdatering av side.

Addons - NagVis

► Geografisk fremstilling

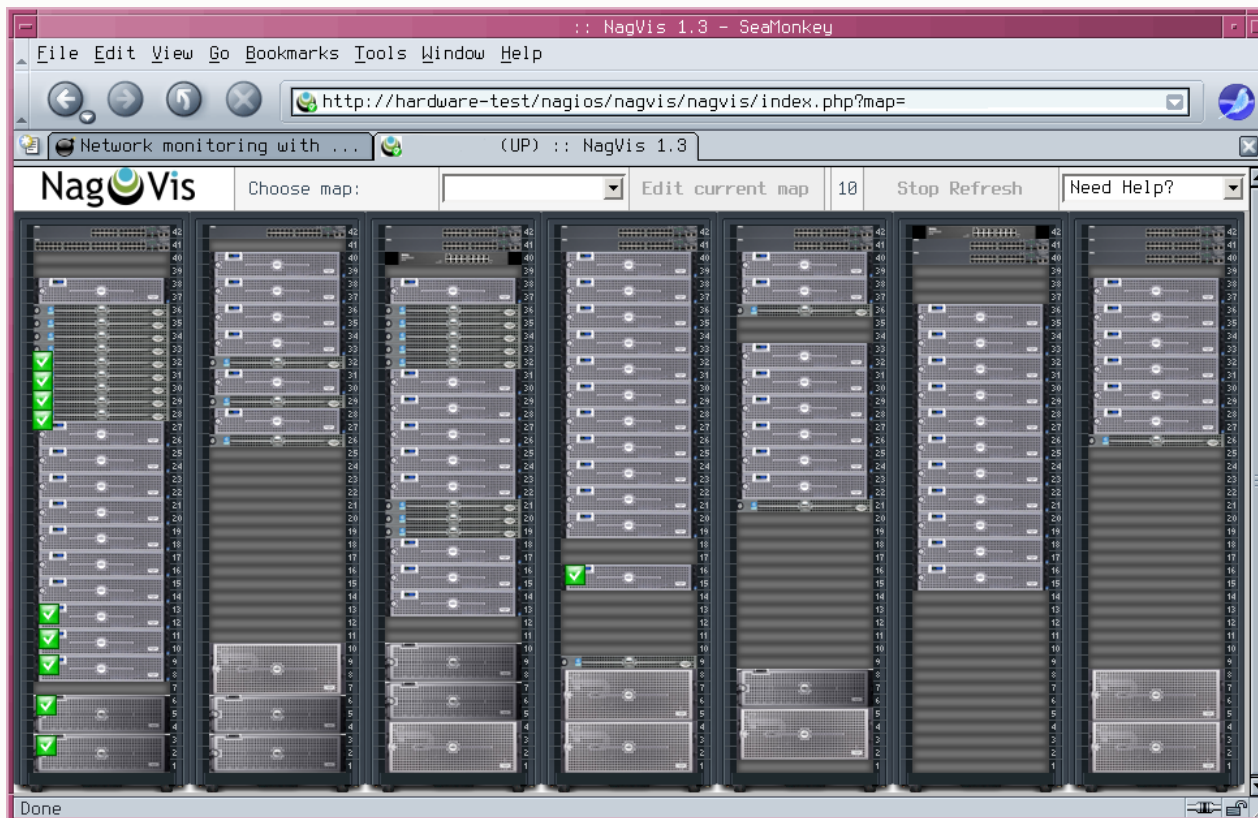
Bérelt vonalak az országban

- ✓ VI-Pecs
- ✓ VI-Bekescsaba
- ✓ VI-Szeged
- ✓ VI-Szfvár
- ✓ VI-Györ
- ✓ VI-Debrecen
- ✓ VI-Laborok
- ✓ VI-Eger
- ✓ VI-Tatabánya
- ✓ VI-Starjan
- ✓ VI-Miskolc
- ✓ VI-Nyirehaza
- ✓ VI-Veszprem



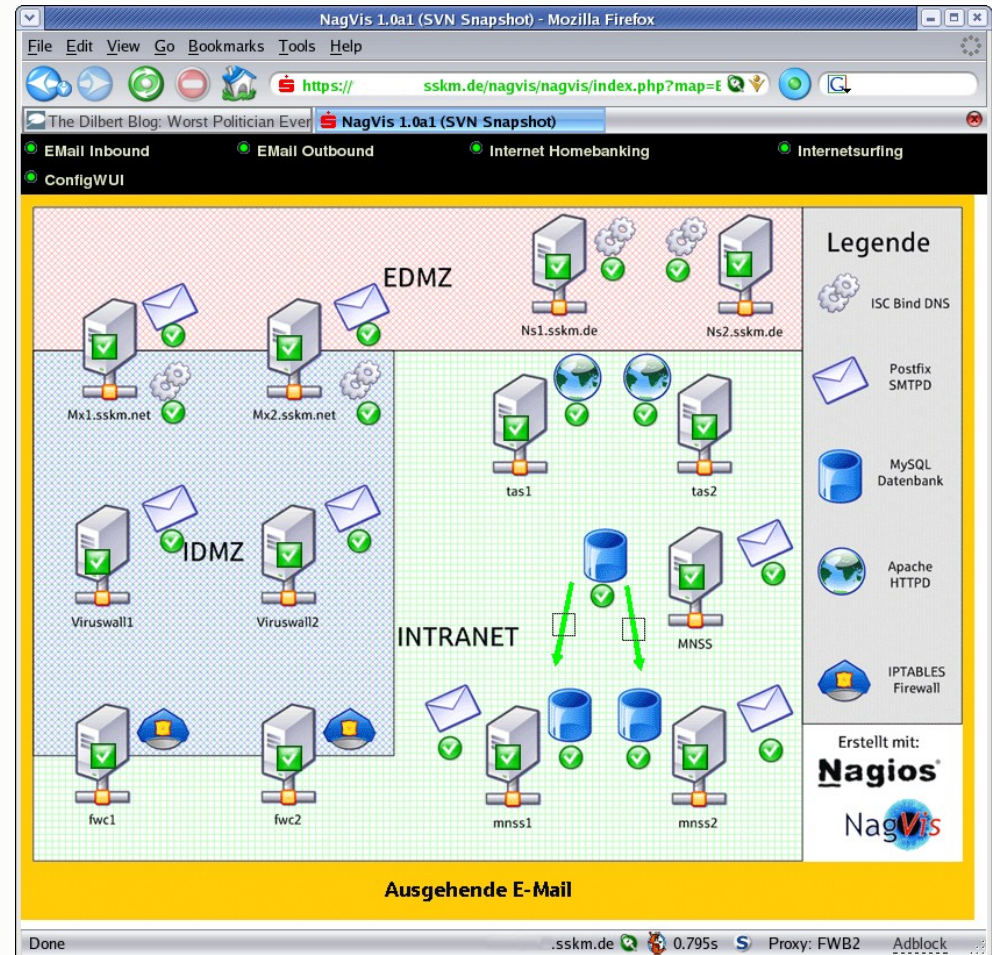
Addons - NagVis

► Rack presentasjon



Addons - NagVis

► Tjenestepresentasjon



Spørsmål og svar



Spørsmål?

Web www.icinga.org

Development dev.icinga.org

Feedback feedback.icinga.org

Wiki wiki.icinga.org

Twitter twitter.com/icinga

Facebook facebook.com/icinga

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Over alt!