Verarbeitung von Events

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SECTOR NORD AG

Stand 11-2012

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Kundenworkshop 2012

- Monitoring von Events
- SV3 Eventlog
- Livedemo

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Datenquellen für Monitoring

Aktive Abfragen:

- Lokale Abfragen
  Disk, CPU, Memory
- Netzwerkdienste
  HTTP, DNS, SMTP,
  POP3, IMAP
- Remote-Abfragen
  SNMP, SSH, NRPE

Events:

- Syslog-Meldungen
- Windows Eventlog
- SNMP-Traps
- Emails
- Sonstiges

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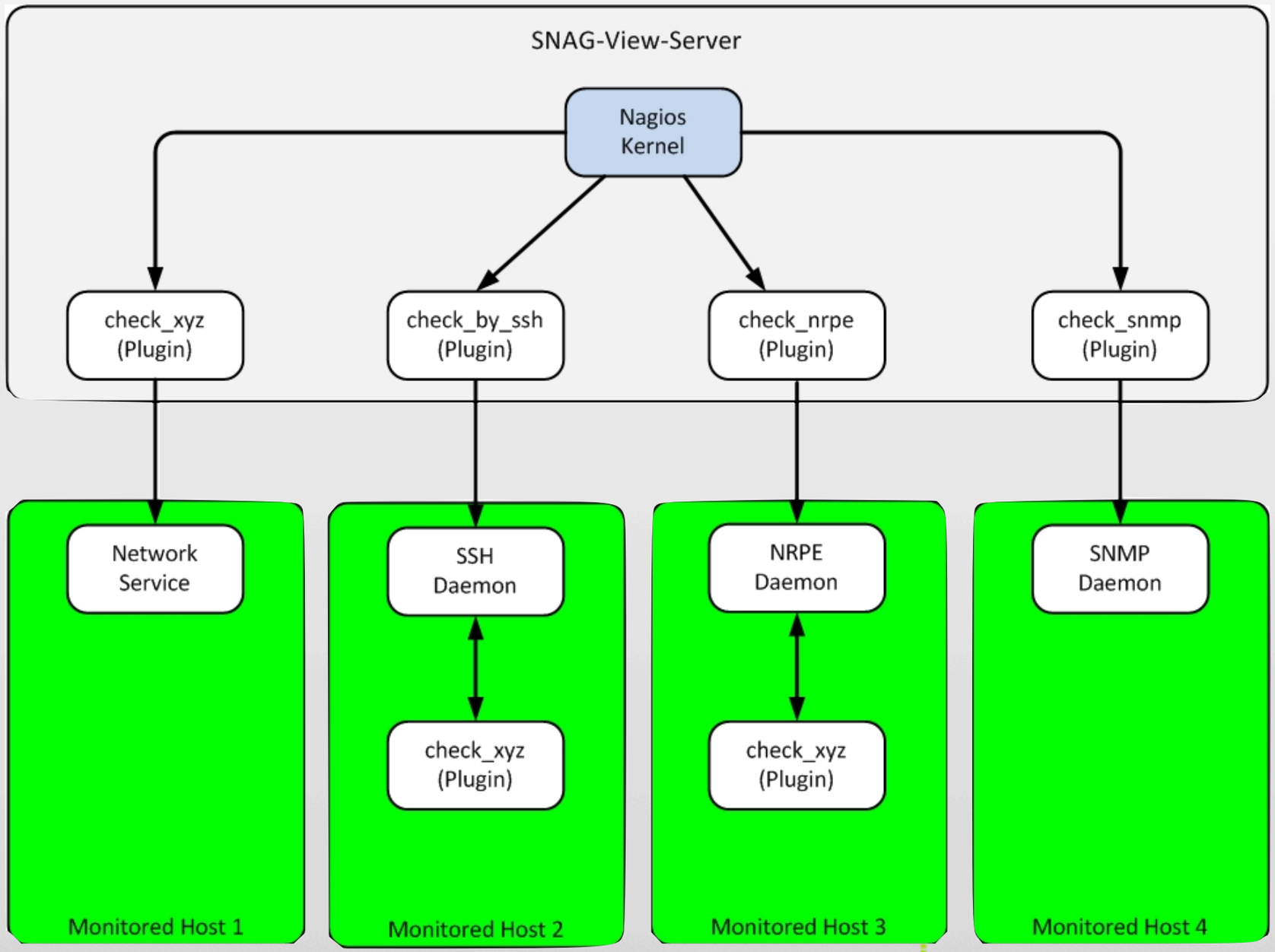
Remote Checks



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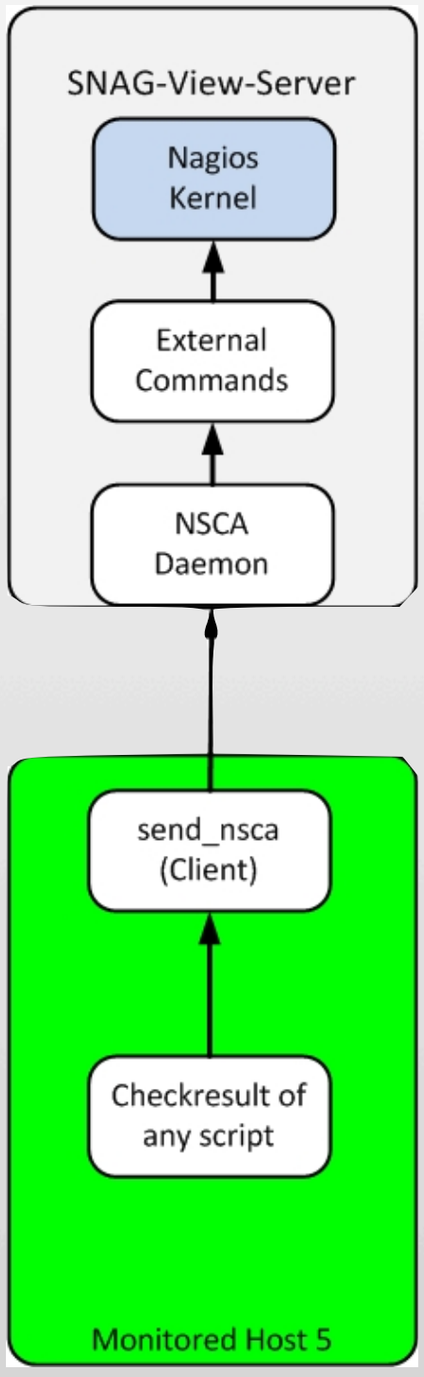
Remote Checks



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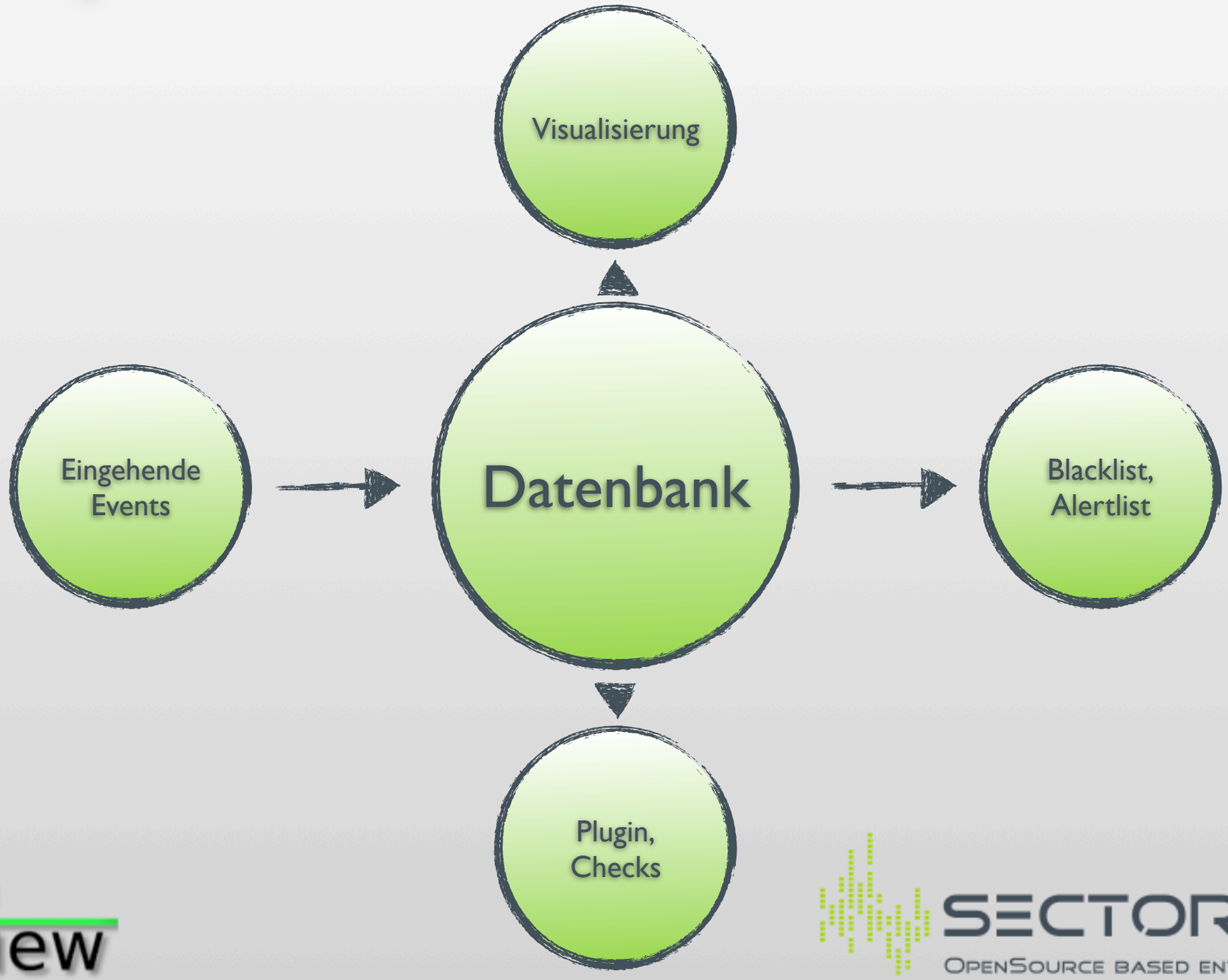
Speichern von Events



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Aktive Checks

Vorteile:

- werden regelmäßig ausgeführt
- Sammeln historischer Daten
- nicht funktionierender Check übermittelt einen Status

Nachteile:

- belastet den Monitoring Server durch Einplanen von Checks
- belastet überwachte Systeme

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Events

Vorteile:

- reduzierte Last auf dem Monitoring Server
- reduzierte Last auf dem überwachten System
- Letzter Hilferuf

Nachteile:

- keine Informationen über den Status, wenn Events ausbleiben
- keine Performancedaten
- Events werden durch den Hersteller definiert
- Inhalt kann sehr unterschiedlich sein

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Fragen ???

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~~Syslog++~~

Eventlog Agent

Regelbasierte Überwachung von auftretenden Events

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Frank Hildebrandt

31 Jahre alt
Entwickler & Projektmanager

Twitter: @frank_ol

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Warum Eventlog

- mehr Funktionen
- mehr Quellen
- erweiterbar
- der Name Syslog++ passte einfach nicht mehr!

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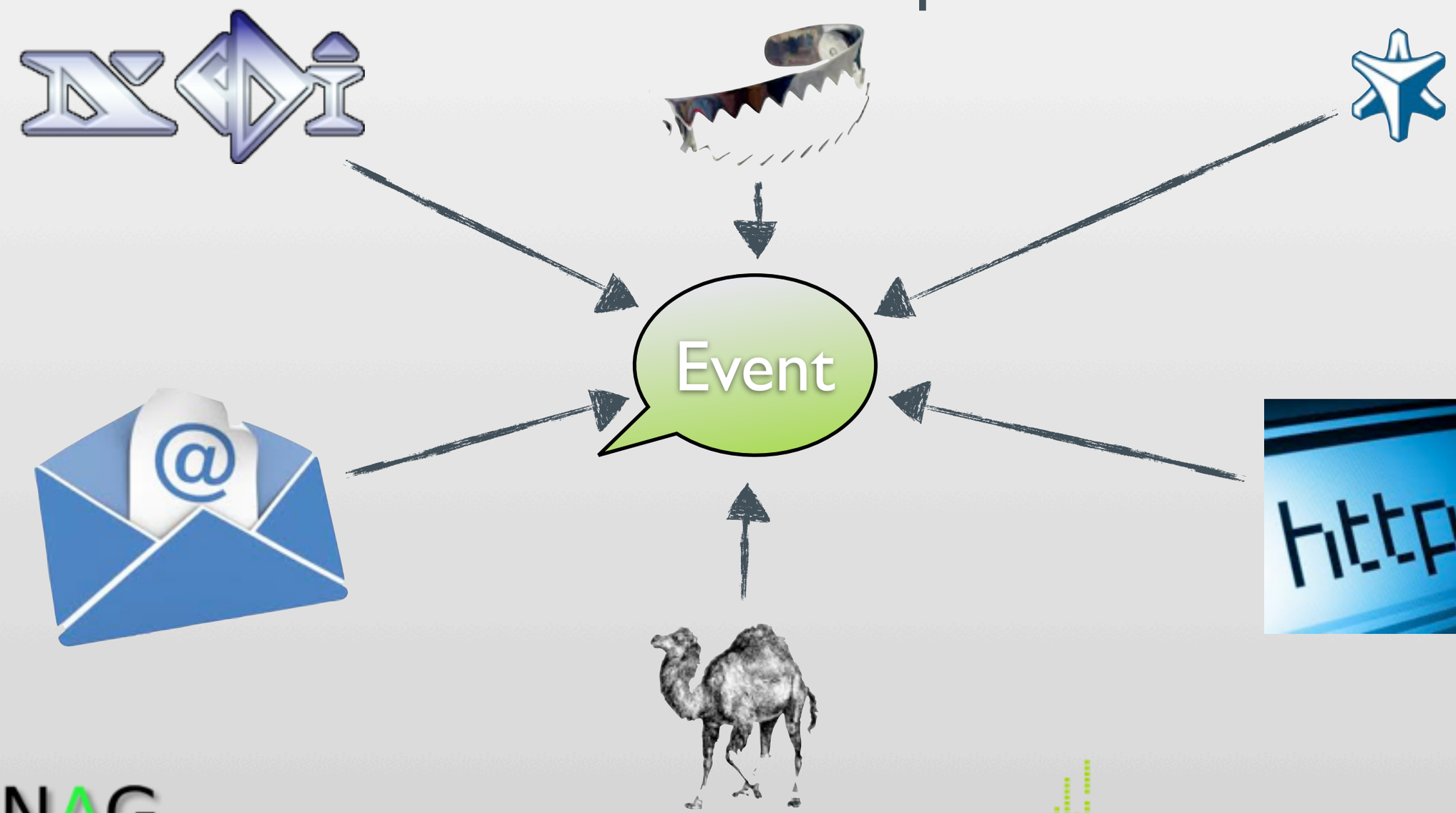
eingehende Events



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Event

Eventlog Daemon

Filter

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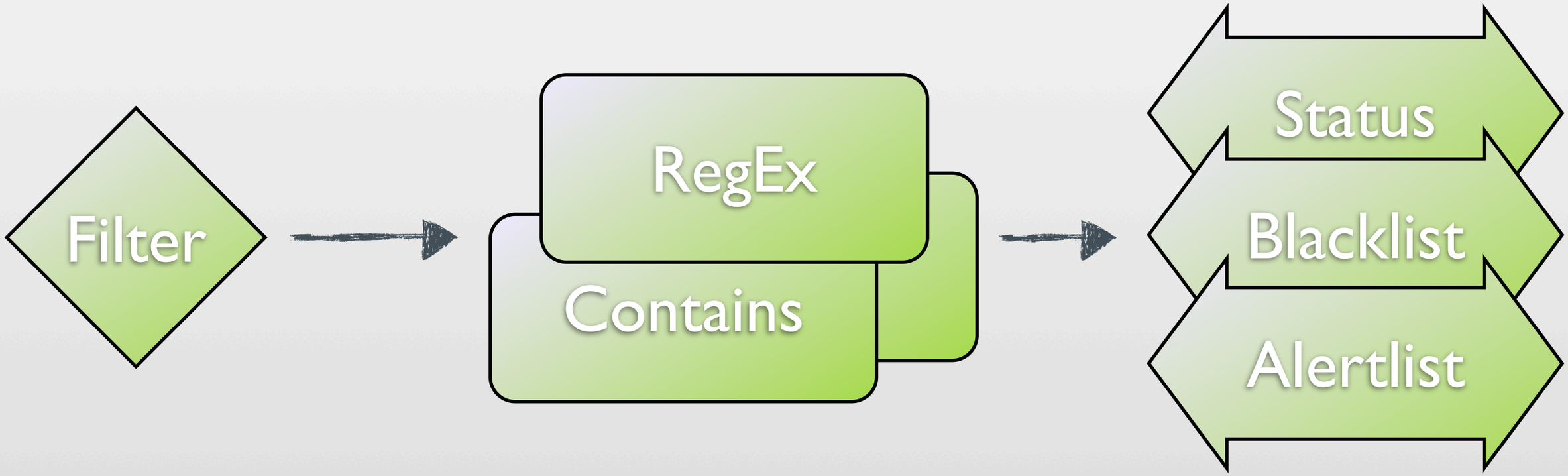
Filterfunktionen

Aktionen



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Die „Eventlog“ Listen

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Alertlist

- Organisationsmittel zum Hervorheben von wichtigen Events
- Servicechecks sehr einfach möglich
- Events können „acknowledged“ werden

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SNAG-View 3

172.16.100.131

Host: 1 0 0 0

Service: 2 0 0 0 0

13.11.2012 23:37:54

svadmin

SNAG View

Favoriten

Dashboard | Servicebrowser | **Eventlog**

Alerts | Blacklist | Quellen | Filter

Datum/Zeit	Host	Status	Typ	Nachricht	Kommentar
2012-11-13 23:07:02	snagview-ser...	Ok		root: foobar	
2012-11-13 23:06:32	snagview-ser...	Warning		root: warning	
2012-11-13 23:04:55	snagview-ser...	Critical		root: Link is Down	

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Blacklist

- Archiv von Events
- Servicechecks möglich

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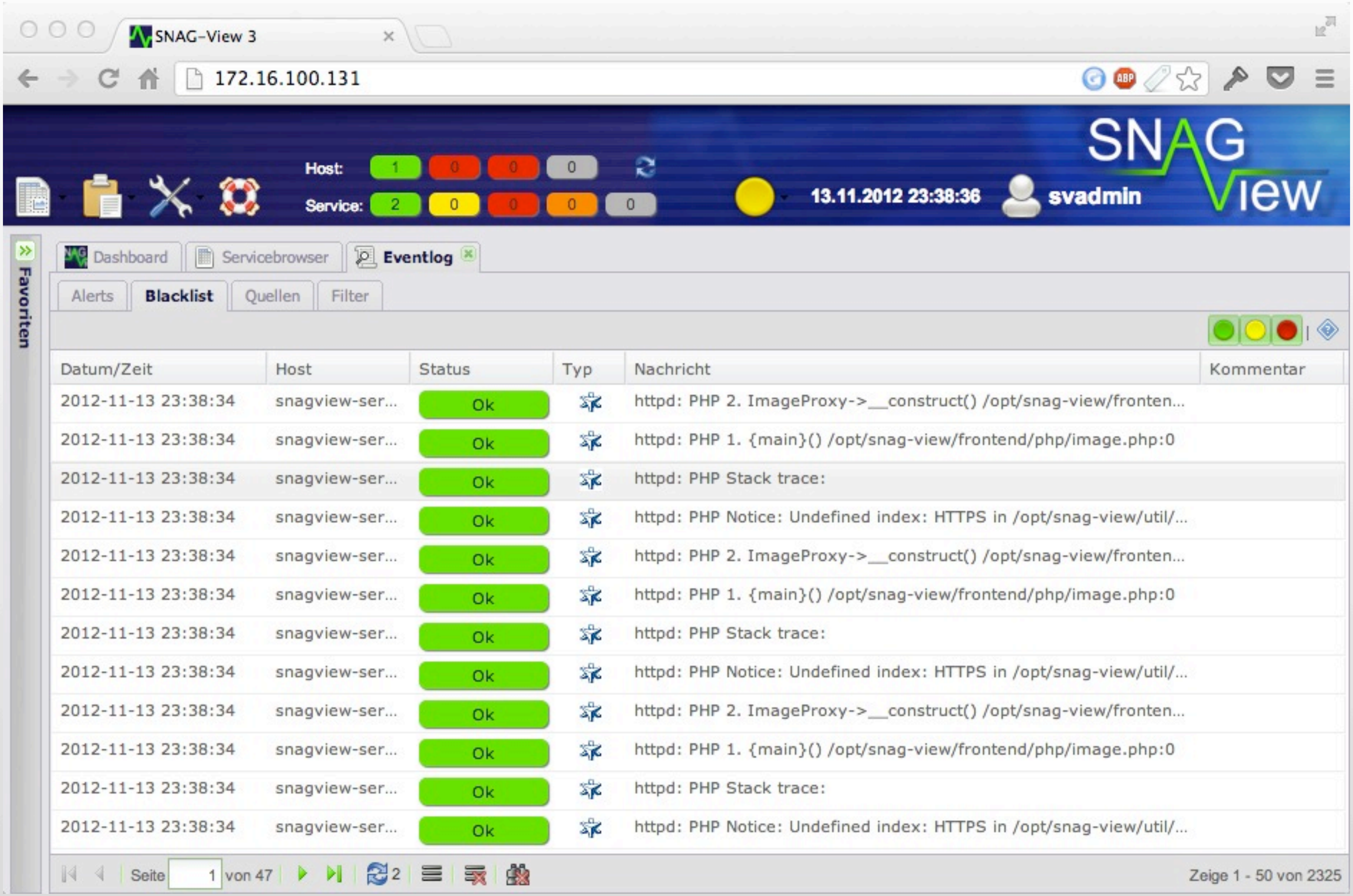
SNAG-View 3
172.16.100.131
Host: 1 0 0 0
Service: 2 0 0 0 0
13.11.2012 23:38:36
svadmin
SNAG View
Favoriten
Dashboard
Servicebrowser
Eventlog
Alerts
Blacklist
Quellen
Filter
Datum/Zeit | Host | Status | Typ | Nachricht | Kommentar
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP 2. ImageProxy->__construct() /opt/snag-view/fronten...
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP 1. {main}() /opt/snag-view/frontend/php/image.php:0
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP Stack trace:
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP Notice: Undefined index: HTTPS in /opt/snag-view/util/...
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP 2. ImageProxy->__construct() /opt/snag-view/fronten...
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP 1. {main}() /opt/snag-view/frontend/php/image.php:0
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP Stack trace:
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP Notice: Undefined index: HTTPS in /opt/snag-view/util/...
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP 2. ImageProxy->__construct() /opt/snag-view/fronten...
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP 1. {main}() /opt/snag-view/frontend/php/image.php:0
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP Stack trace:
2012-11-13 23:38:34 | snagview-ser... | Ok | | httpd: PHP Notice: Undefined index: HTTPS in /opt/snag-view/util/...
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2
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Quellen

- Auflistung aller unbearbeiteten Events
- nach Quellen
  - Syslog
  - E-Mail
  - SNMP-Traps
  - NeDi

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SNAG-View 3

172.16.100.131

Host: 1 0 0 0

Service: 2 0 0 0 0

13.11.2012 23:41:31

svadmin

SNAG View

Favoriten

Dashboard | Servicebrowser | **Eventlog**

Alerts | Blacklist | **Quellen** | Filter

Syslog | E-Mail | Traps | **NeDi**

Datum/Zeit	Host	Typ	Nachricht	Kommentar
2012-11-13 23:30:02	switch4390f1		Node 0001e6246f9b appeared on gi49 Vl1 as - with IP 0.0.0.0	
2012-11-13 23:30:02	switch437aff		Node 0026379f278c appeared on gi48 Vl1 as - with IP 0.0.0.0	
2012-11-13 23:04:19	sec-sw-04		Node 000c29cc3e97 appeared on DEFAULT_VLAN Vl0 as with IP 192.168.16.126	
2012-11-13 20:30:05	switch437aff		Node 685d43e93b21 appeared on gi48 Vl1 as - with IP 0.0.0.0	
2012-11-13 20:30:05	switch4390f1		Node 000c29d71473 appeared on gi43 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 000413703443 appeared on gi49 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 001c9b0108e0 appeared on gi49 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 000c298745b9 appeared on gi32 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 00041370341c appeared on gi49 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 000413703390 appeared on gi49 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 000413703439 appeared on gi49 Vl1 as - with IP 0.0.0.0	
2012-11-13 19:30:03	switch4390f1		Node 080027e234e0 appeared on gi49 Vl1 as - with IP 0.0.0.0	

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Filtermöglichkeiten

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Felder

- jeder Event verfügt über allgemeine Felder
  - z.B.:
    Nachricht, Quelle, Status, etc...
- einige Events haben zusätzliche Felder
  - z.B.:
    eMail, Nedi

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Filterfunktionen

- Feld beinhaltet
- Feld matched auf regulären Ausdruck
- numerischer Vergleich mit Feld

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Aktionen

- Auf Alertliste setzen
- Auf Blackliste setzen
- Event verwerfen
- Status setzen

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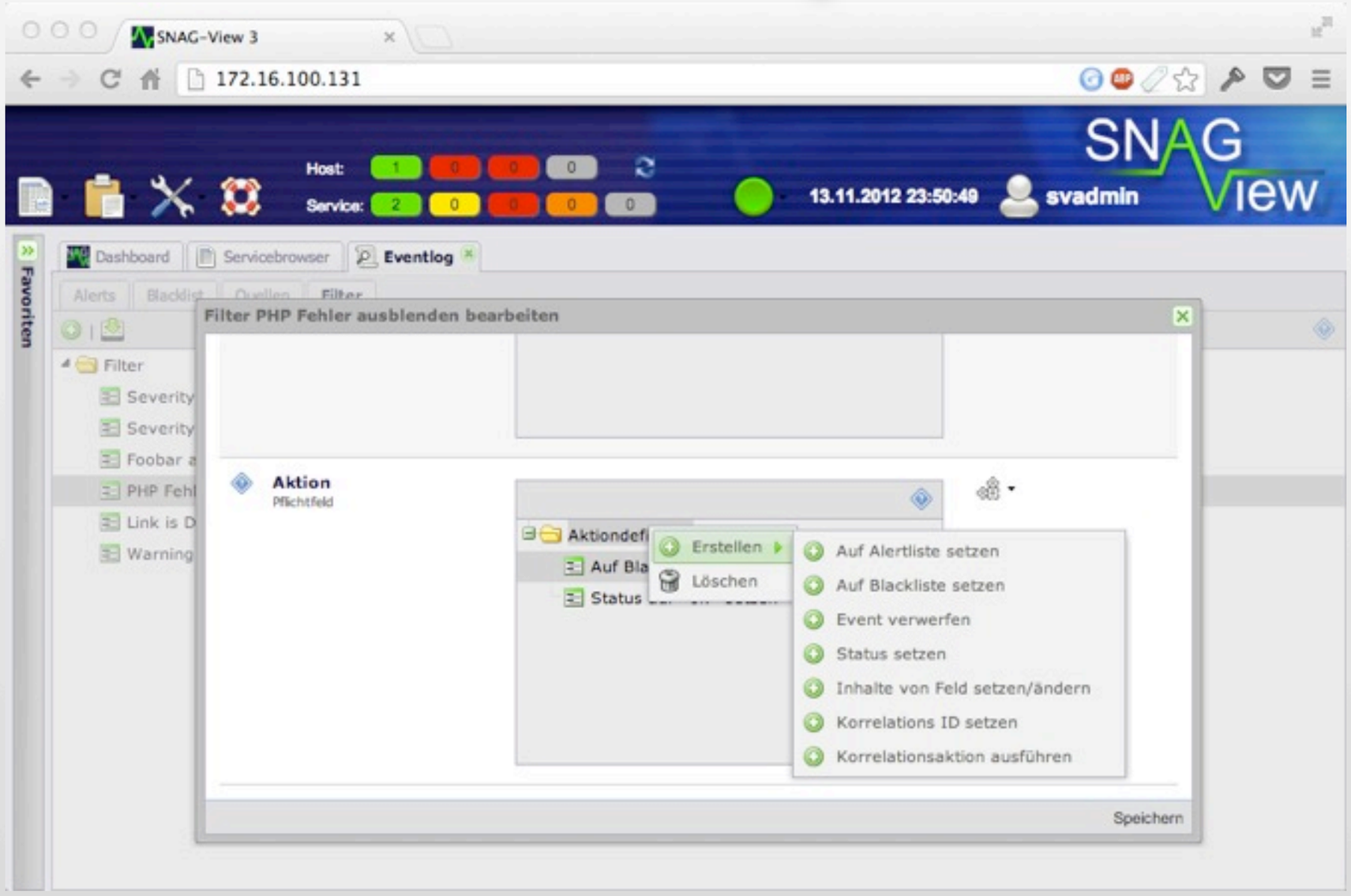
Livebeispiel



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Checkmöglichkeiten

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Einfache Checks

- Einträge auf Alertlist
- Anzahl „Warning“ & „Criticals“ auf Alertlist
- Höchster Status auf Alertlist
- gefiltert nach Host oder gesamt

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Komplexe Checks

- Events in einem Zeitraum
- Events eines Subtyps
- Events mit Feldinhalt
- u.v.m.

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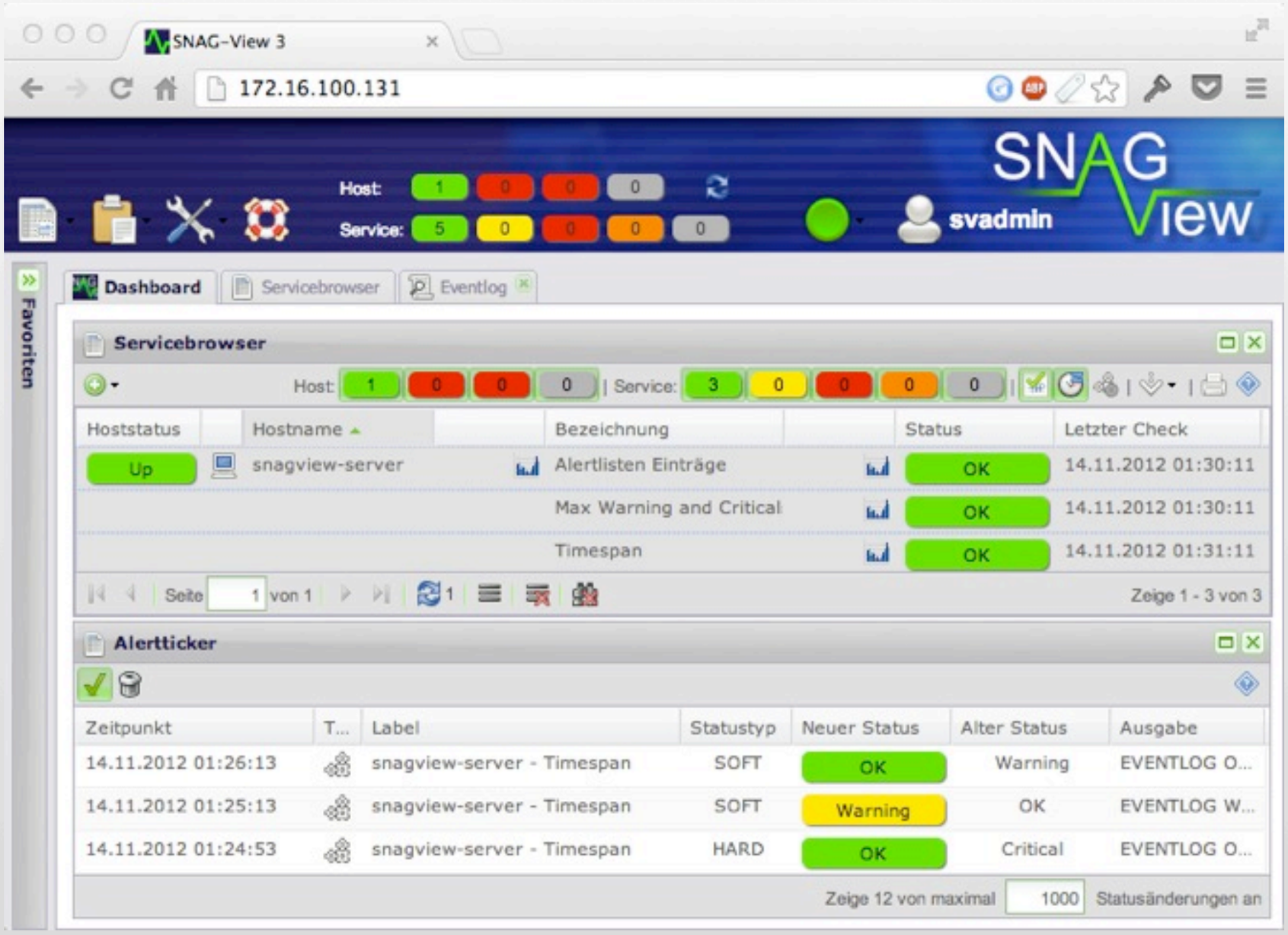
Livedemo



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Korrelation von Events

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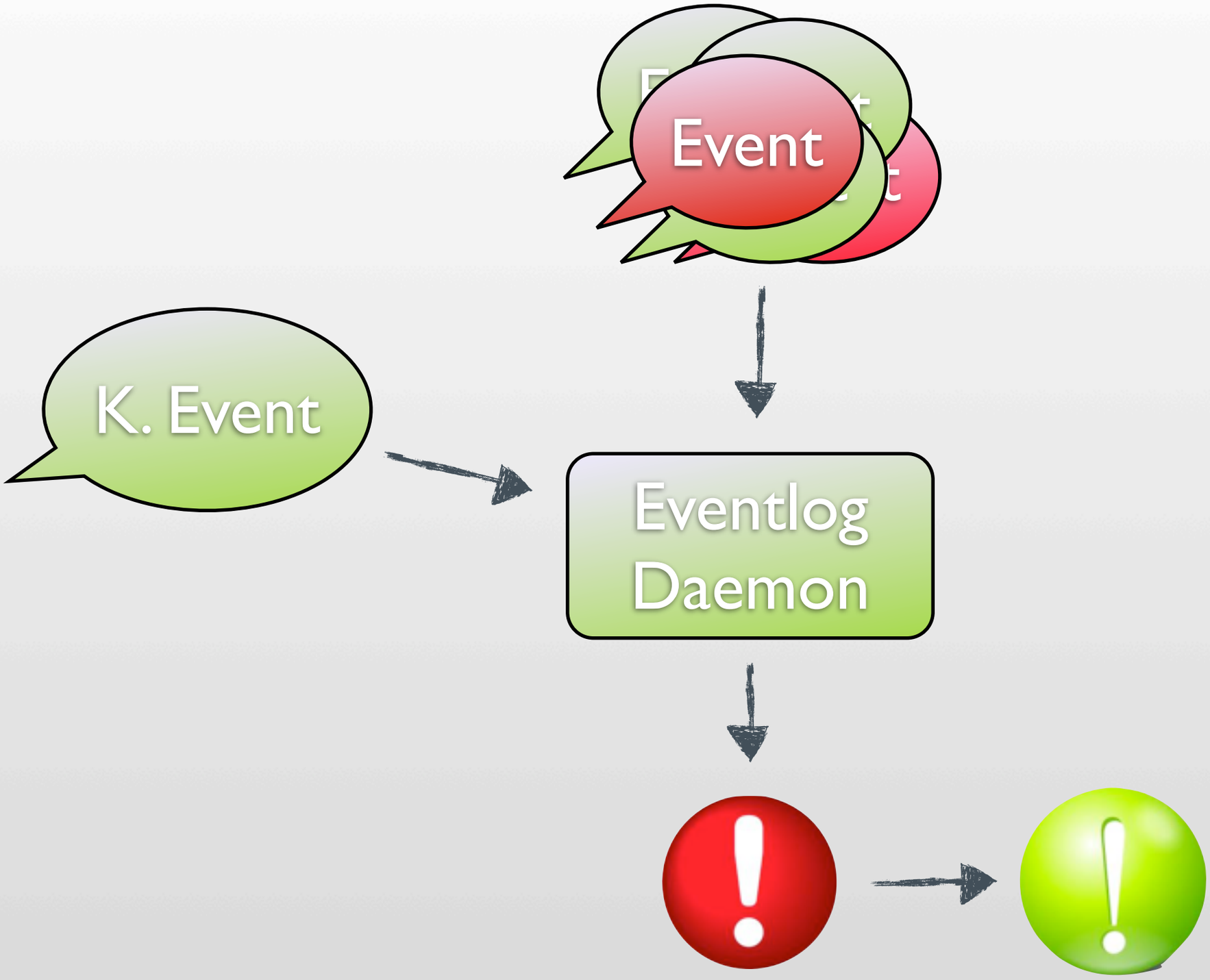

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Korrelation von Events

- Viele Events, die in einer Beziehung zueinender stehen, können in einem kurzen Zeitraum eintreffen
- Dabei können einige ignoriert werden,
- einige lösen einen Fehlerstatus aus
- und andere heben einen Fehlerstatus wieder auf

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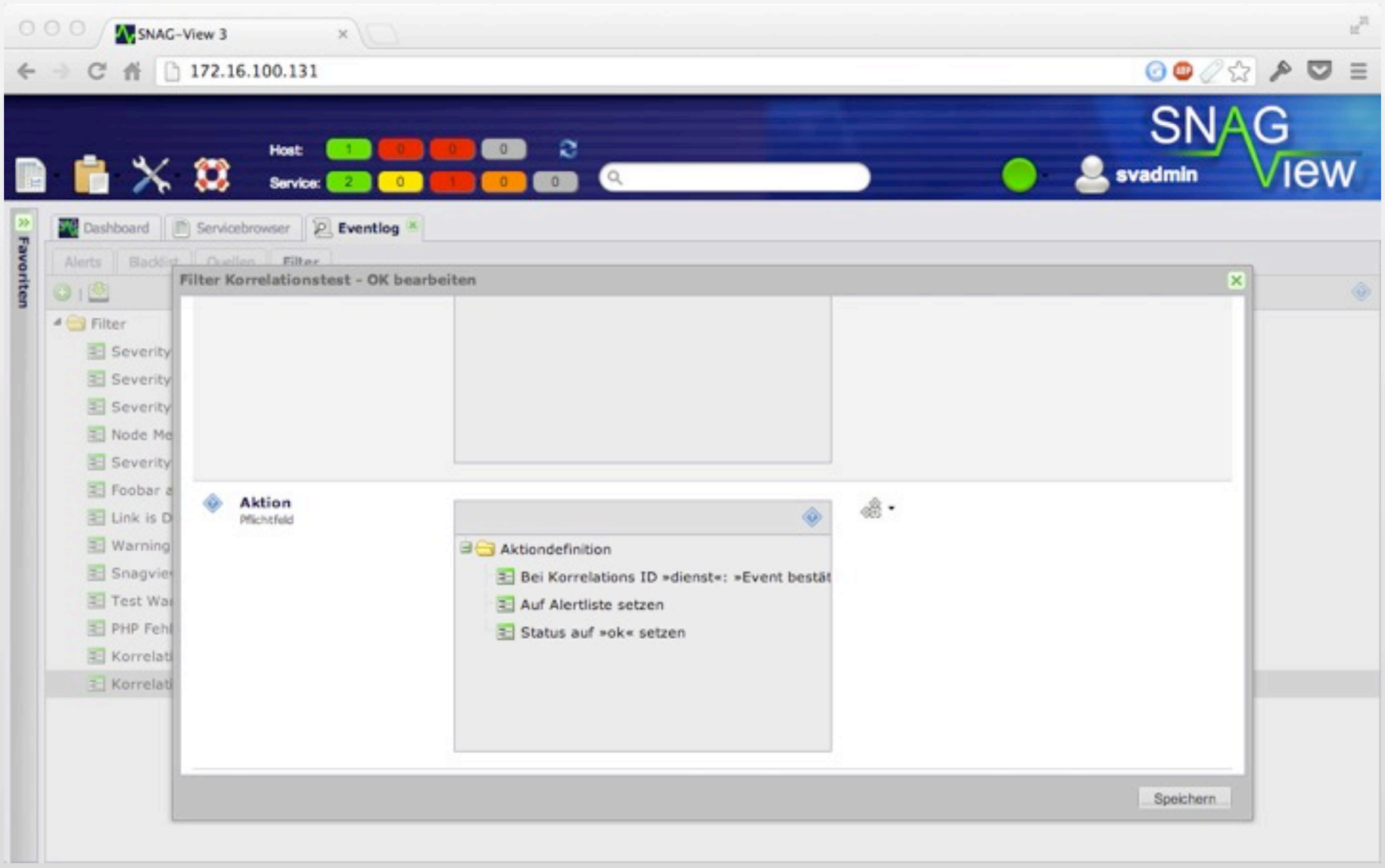

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Fragen ???

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Vielen Dank für Ihre Aufmerksamkeit!

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