



Thruk

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Erwähnenswerte
Kleinigkeiten



Transparente Panels

Sowohl Business Prozesse als auch Grafana Panels lassen sich per transparentem Hintergrund noch besser in bestehende Dashboards einbetten.





Dependencies

In der Service- und Hostdetailansicht werden nun eventuelle Abhängigkeiten aufgelistet.

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Summary (Grid)

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Services (Unhandled)

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View Status Detail For This Host

View Alert History For This Service (Logs)

View Trends For This Service

View Availability Report For This Service

View Notifications For This Service

View Configuration For This Service

View All 'Load' Services (As Performance Map)

Depends On:

[tier1a Ping]

Member of

tier1a

127.0.0.1

Extra Actions

Service State Information

Current Status:

OK

(for 0d 1h 32m 7s)

Status Information:

OK - load average: 0.31, 0.42, 0.50

Performance Data:

(show raw data)

Name	Value	Warning	Critical	Minimum	
load1	0.310	5.000	10.000	0	
load5	0.420	5.000	10.000	0	
load15	0.500	5.000	10.000	0	

Current Attempt:

1/3 (HARD state)

Last Check Time:

12:09:55

Check Type:

ACTIVE

Check Latency / Duration:

0.307 / 0.011 seconds

Next Scheduled Check:

12:10:25 (∞) (dependency: [tier1a Ping])

Last State Change:

10:38:28

Last Notification:

N/A (notification 0) (dependency: [tier1a Ping])

Is This Service Flapping?

NO

(0.00% state change)

In Scheduled Downtime?

NO

Service Actions

Re-schedule next check of this service (Now)

Submit passive check result for this service

Send custom service notification

Schedule downtime for this service

Service Commands

Disable active checks of this service

Stop accepting passive checks for this service

Stop obsessing over this service

Disable notifications for this service

Disable event handler for this service

Disable flap detection for this service



Eskalation

Sowohl Dependencies als auch Eskalationen dürfen nun auch im Config Tool editiert werden.

Config Tool

https://127.0.0.3:60443/demo/thruk/#cgi-bin/conf

80%

Thruk

tier1a

Configuration Type: Objects

save & reload

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Config Tool

Last Update: Sun May 26 12:14:35 UTC 2019

Thruk 2.31-20190526 - OMD 3.11~2019-05-26-labs-edition

Logged in as omdadmin

Object Configuration

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Dependencies

Escalations

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Apply

select serviceescalation to change.

cancel

show

Config

Templates

Computed

new serviceescalation

save to: enter filename

✓ apply

service_description

host_name

contact_groups

escalation_options

escalation_period

first_notification

last_notification

new attribute...

comments

add new attribute

Actions

Create a new serviceescalation

Browse filesystem

Objects Tree

References

Outgoing:

(host)

(timeperiod)



External Commands

External Commands waren bisher eine ziemliche Einbahnstraße und man bekam keinerlei Rückmeldung ob das Kommando erfolgreich war oder ob es überhaupt ankam.

Mit Naemon 1.0.9 wurde das verbessert.

Load @ tier1a

https://127.0.0.3:60443/demo/thruk/#cgi-bin/extinfo.cgi?typ

Thruk

1 up

sending command failed: 400: Failed validation of service as type service (argument 0)

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Service Information

Last Update: Sun May 26 12:17:41 UTC 2019 (∞90s)

Thruk 2.31-20190526 - OMD 3.11~2019-05-26-labs-edition

Logged in as omdadmin

View Information For This Host

View Status Detail For This Host

View Alert History For This Service (Logs)

View Trends For This Service

View Availability Report For This Service

View Notifications For This Service

View Configuration For This Service

View All 'Load' Services (As Performance Map)

Service Load On Host tier1a (tier1a)

Depends On: [tier1a Ping]

Member of tier1a

127.0.0.1

Extra Actions

Service State Information

Current Status: OK (for 0d 1h 39m 13s)

Status Information: OK - load average: 0.74, 0.52, 0.53

Performance Data: (show raw data)

Name	Value	Warning	Critical	Minimum	
load1	0.740	5.000	10.000	0	
load5	0.520	5.000	10.000	0	
load15	0.530	5.000	10.000	0	

Current Attempt: 1/3 (HARD state)

Last Check Time: 12:10:25

Service Actions

Re-schedule next check of this service (Now)

Submit passive check result for this service

Send custom service notification

Schedule downtime for this service

Service Commands

Disable active checks of this service

Stop accepting passive checks for this service



External Commands

Auch in der Rest API...

```
%> thruk r -d "plugin_output=test" \  
-d "plugin_state=test" \  
/hosts/test/cmd/process_host_check_result
```

```
{  
  "code" : 400,  
  "error" : "400: Couldn't parse integer argument  
status_code (argument 1): No digits found in integer  
'test'",  
  "message" : "sending command failed"  
}
```



External Commands

Noch mehr external Commands.
Bisher war das Löschen bestehender Downtimes immer etwas mühselig.
Dafür gibt es nun eigene external Commands.

```
%> thruk r \  
-m POST \  
/hosts/test/cmd/del_active_host_downtimes
```

```
{  
  "message" : "Command successfully submitted"  
}
```



Neue Rollen

Admins bekamen bisher immer sämtliche Rollen einzeln zugewiesen. Das ist nicht nur umständlich, sondern auch fehleranfällig.

Lösung: admin Rolle

Daneben gibts noch weitere neue Rollen für Business Prozesse, Reports und Broadcasts.

```
%> grep admin etc/thruk/cgi.cfg
```

```
authorized_for_admin=omdadmin
```

```
authorized_contactgroup_for_admin=
```



Safety first

Cookies und API Keys sind nun per SHA256 gehasht und das zweimal.

Thruk User Profile

5 up API key created

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User Profile

Last Update: Sun May 26 12:57:37 UTC 2019
Thruk 2.31-20190526 - OMD 3.11~2019-05-26-labs-edition
Logged in

New API Key Created

Store this key to a safe place, it won't be show again.

b72deef7644cd92aff9ffc026789f605bdf48d6294419d9244c5f7b80dc5353d_1

dismiss

Timezone

Set Timezone Server Setting Server: UTC Browser: Europe/Berlin

Change Password

Change Password Change User Password

API Keys

Comment	Created At	Last Used	From	
test	12:57:37	never		remove
comment			Create New API Key	

Advanced Settings



Thruk Federation

Thruk Federation

- Kunde:
 - 20 verteilte und verschachtelte Naemon/Thruk Instanzen
 - Verschachtelte Business Prozesse auf allen Ebenen
- Bonuspunkte:
 - Kerberos SSO (aber natürlich nicht überall)





Thruk - auf allen Ebenen

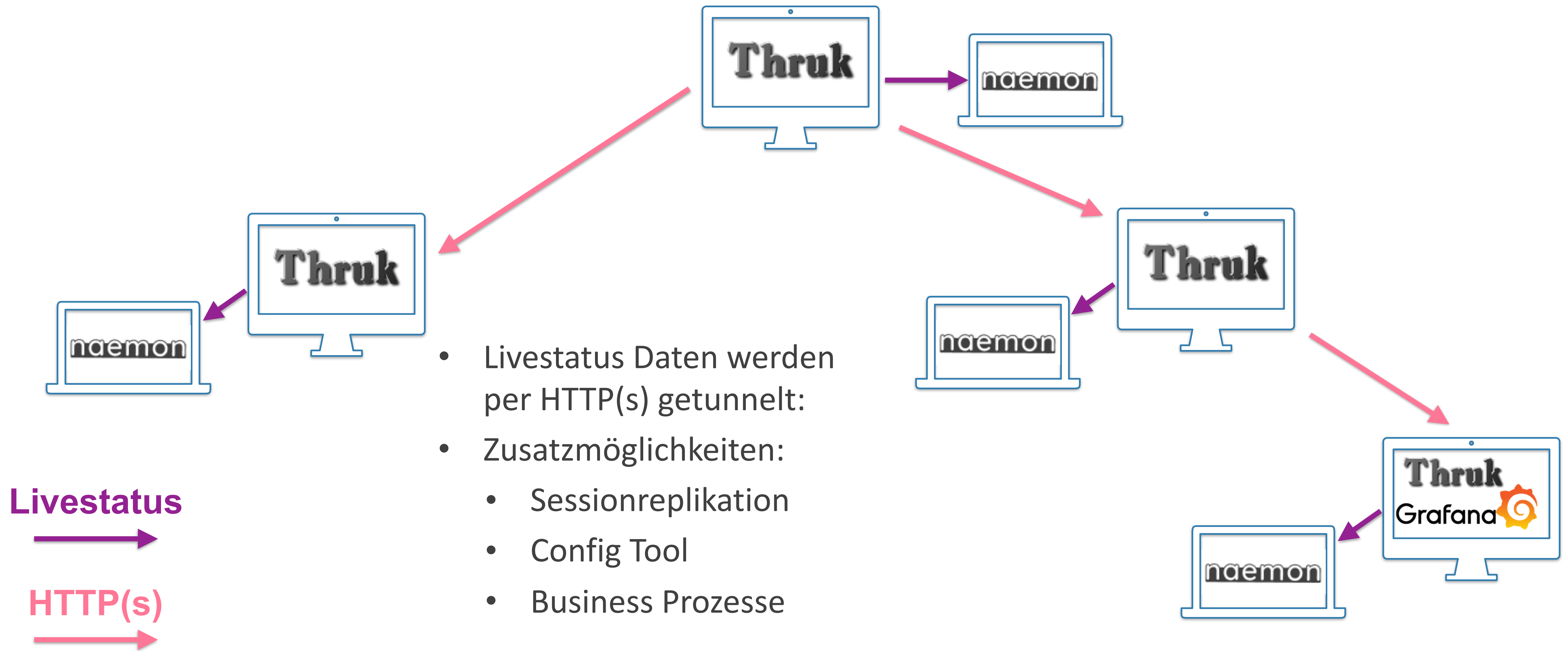
Thruk verbindet etliche Backends zu einer einheitlichen Oberfläche. Die Sites reihen sich mittig oben ein.

Neben Livestatus Verbindungen kann Thruk aber auch Wiederrum andere Thruk Instanzen per HTTP anbinden.

Wenn diese Thruk Instanzen ihrerseits wieder etliche Backends angebunden haben, spricht man von Federation.

The screenshot displays the Thruk Tactical Monitoring Overview interface. The top navigation bar includes the Thruk logo and tabs for 'Tactical Monitoring Overview' and 'Demo - Tactical Monitoring Overview'. The sidebar on the left contains navigation links for 'General', 'Current Status', and 'Reports'. The main content area features several widgets: 'Tactical Monitoring Overview' (highlighted with an orange arrow), 'Monitoring Performance', 'Network Outages', 'Network Health', 'Hosts', 'Services', and 'Monitoring Features'. The 'Tactical Monitoring Overview' widget shows the last update time, Thruk version, and user login information. The 'Monitoring Performance' widget displays service and host check execution times and latencies. The 'Network Outages' widget shows 0 outages. The 'Network Health' widget shows host and service health status. The 'Hosts' widget shows 0 Down, 0 Unreachable, 11 Up, and 0 Pending. The 'Services' widget shows 0 Critical, 1 Warning, 2 Unknown, 26 OK, and 0 Pending. The 'Monitoring Features' widget shows various monitoring features like Flap Detection, Notifications, Event Handlers, Active Checks, and Passive Checks.

Thruk Federation





Thruk - auf allen Ebenen

Das Sitepanel passt sich den Ebenen an und stellt alle Backends in einer Baumstruktur dar.

Zusätzlich:

- Site Selection Bookmarks
- Site Suche



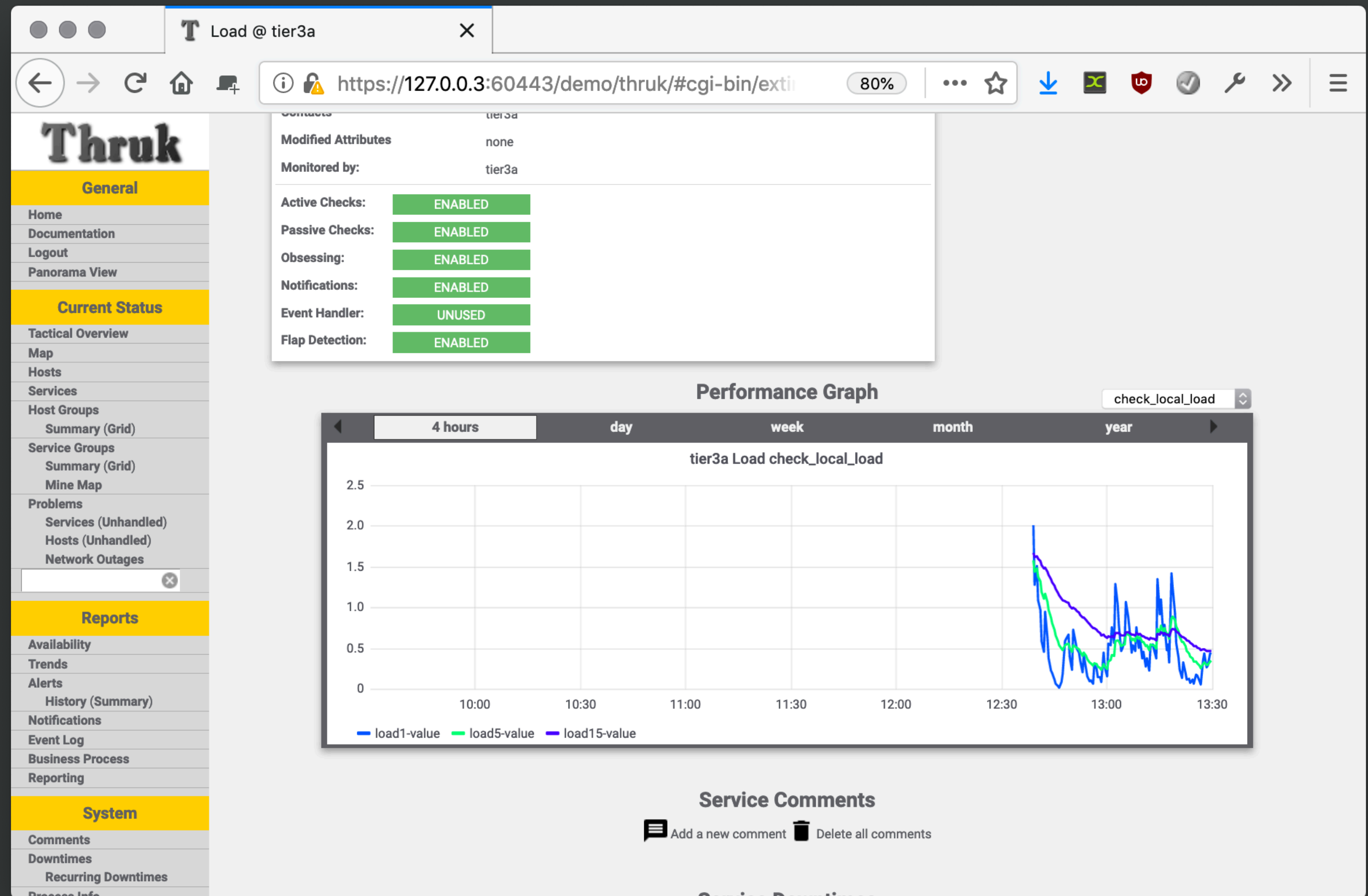
Grafana

Nun waren alle Thruk Instanzen verbunden und somit war die nächste Frage wie man denn nun an die Grafana/PNP Graphen kommt.

PNP ist noch relativ einfach, hier muss lediglich ein bereits generiertes PNG Bild transferiert werden.

Grafana ist jedoch eine relativ komplexe AngularJS Anwendung und rendert die Graphen im Browser.

Lösung: Proxy-Mode



Thruk Federation

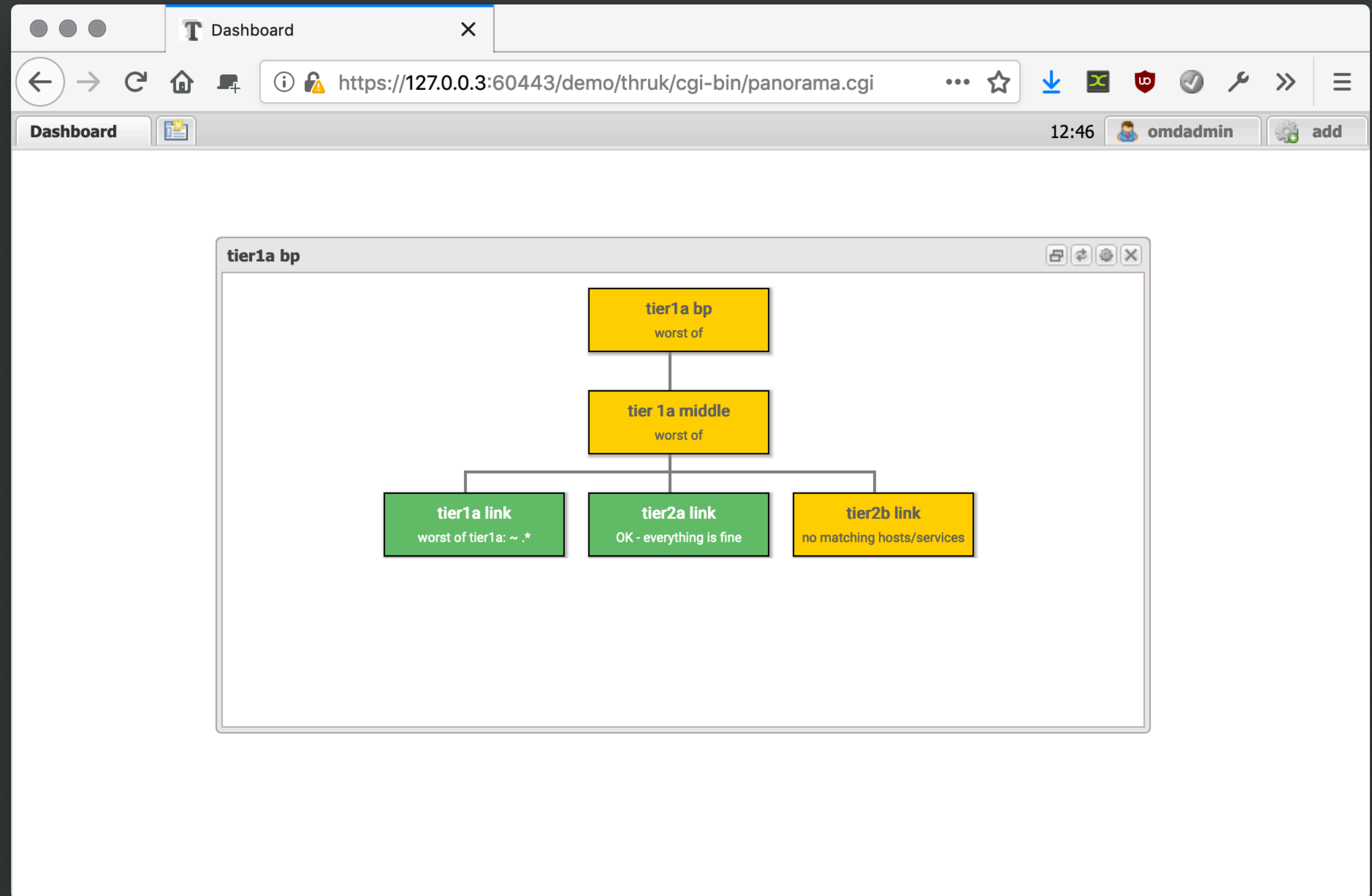




Business Prozess

Business Prozesse berechnen einen aggregierten Status auf Basis von Host / Servicechecks. Dabei kann ein Servicecheck natürlich auch wieder ein Business Prozess sein.

In dem Fall kann per Drill Down dem Problem nachgegangen werden.





Business Prozess

In der Business Prozesse Darstellung wird nun nach Lokalen und Remote Business Prozessen unterschieden und man hat (HTTPs Verbindung vorausgesetzt) auch direkt Zugriff auf die untergeordneten Business Prozesse. Samt Möglichkeit diese zu editieren.

Business Process

https://127.0.0.3:60443/demo/thruk/#cgi-bin/bp.cgi?type=r

Thruk

5 up0 disabled0 down

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Business Process Overview

filterLocalRemoteAllcreate new business process

Name		Site	Status	Last Check	Duration	Status Information
tier2a bp		tier2a	OK	11:24:02	0d 0h 46m 24s	OK - everything is fine
tier2a bp2		tier2a	OK	11:24:02	0d 0h 46m 24s	OK - everything is fine
tier3a bp		tier3a	OK	11:25:02	0d 0h 46m 25s	OK - everything is fine

3 of 3 Matching Business Processes Displayed



Thruk Remote Proxy

Was mit Grafana funktioniert, kann man natürlich auch für Thruk selbst verwenden.

Process Information

Tactical Monitoring Overview

https://127.0.0.3:60443/demo/thruk/cgi-bin/proxy.cgi/a8697

tier3a

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Tactical Monitoring Overview

Last Update: Sun May 26 11:42:07 UTC 2019 (∞90s)

Thruk 2.31-20190526 - OMD 3.11~2019-05-26-labs-edition

Logged in as omdadmin

Network Outages

0 Outages

Hosts

0 Down0 Unreachable2 Up0 Pending

Services

0 Critical0 Warning0 Unknown3 OK0 Pending

Monitoring Features

Flap DetectionAll Services EnabledNotificationsAll Services EnabledEvent HandlersAll Services EnabledActive Checks1 Services PassivePassive ChecksAll Services Enabled

Monitoring Performance

Service Check Execution Time: 0.01 / 4.19 / 2.101 sec

Service Check Latency: 0.22 / 0.28 / 0.249 sec

Host Check Execution Time: 0.01 / 0.01 / 0.010 sec

Host Check Latency: -0.19 / -0.19 / 0.000 sec

Active Host / Service Checks: 1 / 2

Passive Host / Service Checks: 1 / 1

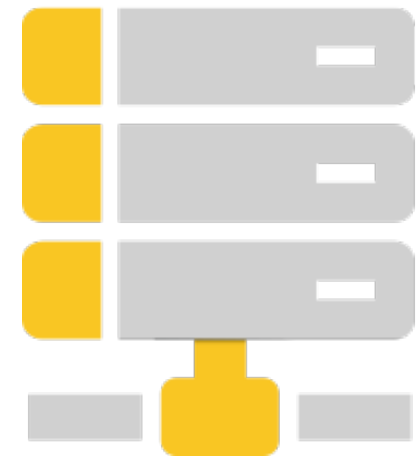
Network Health

Host Health:

Service Health:



REST API



Relative Zeitstempel

Leichter lesbar und schöner in
Cronjobs und Skripten.

y: Jahre

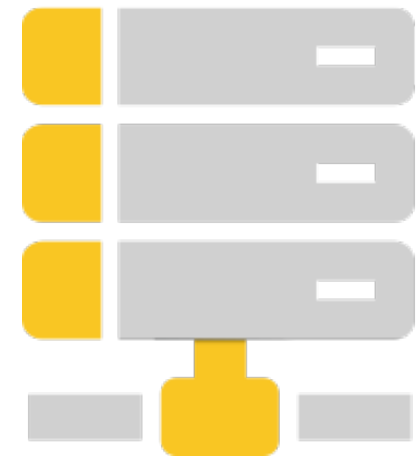
w: Wochen

d: Tage

h: Stunden

m: Minuten

```
%> thruk r -d "comment_data=test" \  
-d "end_time=+5m" \  
/hosts/tier1a/cmd/schedule_host_downtime  
  
{  
  "message" : "Command successfully submitted"  
}
```

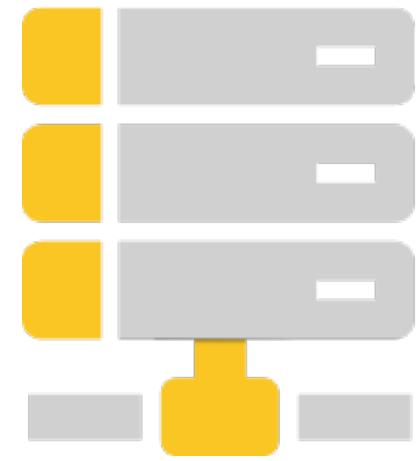


Ergebnis transformieren

Spalten in der Rest API Ausgabe
lassen sich per ":" umbenennen.

```
%> thruk r \  
"/hosts?columns=name:host_name&limit=1"
```

```
[  
  {  
    "host_name" : "localhost"  
  }  
]
```



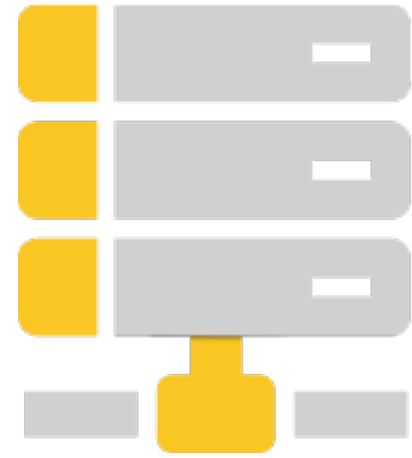
Aggregations

Statistische Auswertungen sind mit den folgenden Funktionen möglich:

- avg
- min
- max
- sum

```
%> thruk r "/hosts?columns=avg(latency)"
```

```
{  
  "avg(latency)" : 0.220521265810909  
}
```



check_thruk_rest

Ziel war es Daten aus der Rest API
möglichst einfach in einen Graphen
zu packen, bzw, dauerhaft als
Performancewert zu speichern.

Lösung: check_thruk_rest

```
%> ./lib/monitoring-plugins/check_thruk_rest /hosts/totals
```

check_thruk_rest - Optionen

- -w threshold, --warning=threshold
- -c threshold, --critical=threshold
- Format ist:
 <attribute>:<value>
 bzw,
 <attribute>:<threshold>
 mit Range Syntax von
 <https://www.monitoring-plugins.org/doc/guidelines.html#THRESHOLDFORMAT>



check_thruk_rest - Optionen

- `--rename=label:newlabel`

Benennt ein Label um.

- `--perfunit=label:unit`

Setzt die Einheit für die angegebenen Label(s).

Bsp.: verwende die Einheit 's' für das Label 'time'

`--perfunit=time:s`

Es werden Reguläre Ausdrücke unterstützt:

Bsp.: setzt alle Label als Counter:

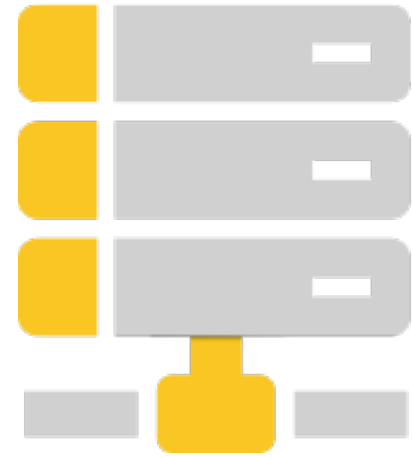
`--perfunit=".*:c"`



check_thruk_rest - Optionen

- -o outputtemplate, --output=outputtemplate
Legt das Template für die Pluginausgabe fest.
Templates dürfen Makros enthalten welche mit geschweiften Klammern gekennzeichnet sind.
Makros können entweder Daten aus der REST Abfrage anzeigen:
 - {attribut name}Wenn mehrere Abfragen gemacht werden, kann per Nummer Prefix gezielt einzelne Abfragen referenziert werden. Die Nummer beginnt bei 1.
 - {nr:attribut name}Daneben können einfache Berechnungen durchgeführt werden:
 - {attribut name + anderes attribut}Spezial Makros:
 - {STATUS} enthält den Text StatusPer printf können Nummern und Text formatiert werden:
 - {var%format}, ex.: {execution_time:%02f}





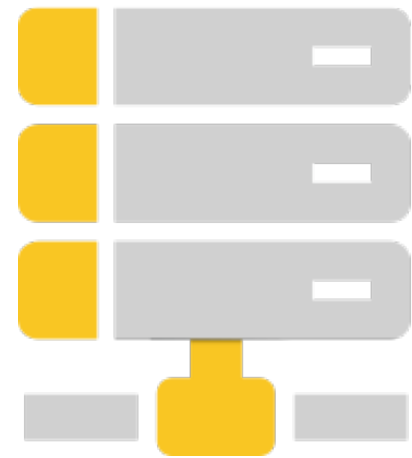
check_thruk_rest

Ziel war es Daten aus der Rest API
möglichst einfach in einen Graphen
zu packen, bzw, dauerhaft als
Performancewert zu speichern.

Lösung: check_thruk_rest

```
%> ./lib/monitoring-plugins/check_thruk_rest \  
-o "{STATUS} - maximum rta is {rta%0.2f}ms" \  
--perfunit=rta:ms \  
"/hosts?columns=max(rta):rta&rta[gt]=0"
```

```
OK - maximum rta is 0.02ms | 'rta'=0.022ms;;;;
```



check_thruk_rest

Mit einem Aufruf können auch direkt mehrere REST Abfragen kombiniert werden.

Schwellwerte gelten dann jeweils für die folgende URL.

```
%> ./lib/monitoring-plugins/check_thruk_rest \  
-o "{STATUS} - There are {down} of {1:total} hosts down  
and {critical+unknown} of {2:total} services  
have issues." \  
--warning=total:20:100 \  
"/hosts/totals" \  
--warning=total:20:100 \  
"/services/totals"
```

```
WARNING - There are 0 of 11 hosts down and 3 of 16  
services have issues.|'critical'=0;;;;  
'critical_and_unhandled'=0;;; 'down'=0;;;;  
'down_and_unhandled'=0;;; 'ok'=7;;; 'pending'=4;;;;  
'total'=27;20:100;;; 'unknown'=3;;;;  
'unknown_and_unhandled'=0;;; 'unreachable'=0;;;;  
'unreachable_and_unhandled'=0;;; 'up'=11;;;;  
'warning'=2;;; 'warning_and_unhandled'=0;;;;
```



Action Menu



Action Menu

- Definiert als JSON Struktur
- Enthält
 - HTTP Links
 - Server Actions
- Wird zu Host/Services hinzugefügt

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server://tomcat_start/

tomcat

https://192.168.99.99/demo/thruk/#cgi-bin/status.cgi?host=tomcat

Current Network Status

Last Update: Mon Nov 5 14:14:33 CET 2018 (∞90s)
Thruk 2.25-20181031 - www.thruk.org - OMD 2.81~2018-11-01-labs-edition
Logged in as omdadmin

View History For This Host

View Notifications For This Host

View Service Status Detail For All Hosts

Host Status Totals

Up	Down	Unreachable	Pending
1	0	0	0
All Problems		All Types	
0		1	

Service Status Totals

OK	Warning	Unknown
12	0	0
All Problems		
0		

Service Status Details For Host 'tomcat'

Select hosts / services with leftclick to send multiple commands. Select multiple with shift + mouse.
select all (hosts) - unselect all - all problems - all with downtime

Host	Service	Status	Last Check	Duration	Attempt	Status Information
tomcat	http-8081	OK	14:14:25	1d 4h 0m 55s	1/3	HTTP OK: Status line output matched "..."
	Tomcat Homepage	OK	14:14:30	1d 3h 59m 53s	1/3	PROCS OK: 1 process with STATE = Ss...
	Start Tomcat	OK	14:14:24	1d 4h 3m 58s	1/3	OK - Code Cache : 4.07% used (9.76 M...
	Stop Tomcat	OK	14:14:30	1d 4h 2m 56s	1/3	OK - All 2 checks OK
	memory_gc_time	OK	14:14:25	1d 4h 1m 54s	1/3	OK - All 2 checks OK
	memory_heap	OK	14:14:22	1d 4h 0m 52s	1/3	OK - Heap-Memory: 14.44% used (59.0...
	memory_pools	OK	14:14:31	1d 3h 59m 50s	1/3	OK - All 3 checks OK
	session_active	OK	14:14:31	1d 4h 3m 54s	1/3	OK - jolokia: Active Sessions = 0
	session_average_lifetime	OK	14:14:23	1d 4h 2m 53s	1/3	OK - jolokia: Average session lifetime =...
	session_increase	OK	14:14:22	1d 4h 1m 51s	1/3	OK - 0.00 sessions/minute
	thread_count	OK	14:14:24	1d 4h 0m 49s	1/3	OK - Connector http-bio-8081 : 1.00% u...
	thread_inc	OK	14:14:24	1d 3h 59m 47s	1/3	OK - 0.00 Threads/minute

Action Menu

- Schon ganz ok, aber...
 - statisch
 - auch kleine Änderungen erfordern ein neues Menü
 - Anforderung an Formularfelder
 - Menü soll dynamischer werden
 - Das Menü soll abhängig von Host- Serviceattributen sein



Action Menu per Javascript Callback

- Das Action Menu kann nun per Javascript Callback definiert werden
- Anstatt eines .json Files wird ein .js File in den *action_menus* Ordner gepackt
- Die erste Funktion darin wird aufgerufen um das Menü zu erstellen





Action Menu

Die erste Funktion des .js Files wird beim Seite rendern aufgerufen und muss eine JSON Struktur zurückliefern.

```
function js_simple_menu() {  
  return({  
    "icon": "../themes/{{theme}}/images/dropdown.png",  
    "title": "javascript simple menu",  
    "menu": [  
      ...  
    ]  
  });  
}
```



Action Menu

Untermenüs können per JSON oder per JS Callback erstellt werden.

Die Funktionen werden zum Zeitpunkt der Benutzerinteraktion evaluiert.

```
function js_dynamic_menu() {  
  return({  
    "icon": "../themes/{{theme}}/images/dropdown.png",  
    "title": "javascript simple menu",  
    "menu": js_sub_menu  
  });  
}  
  
function js_sub_menu() {  
  return([  
    ...  
  ]);  
}
```



Action Menu

Menü Callbacks können auch *Promises* sein.

-> Ermöglicht Menüs aufgrund von Ajax Requests.

```
function js_sub_menu() {  
    return(jQuery.get("/thruk/r/hosts")  
        .then(function(data, textStatus, jqXHR) {  
            return([...]);  
        })  
    );  
}
```



Action Sub-Menu

Sub-Menus sind möglich und können auch *Promises* enthalten.

Neben HTML Links und Server Actions können Menu Item Handler ebenfalls Javascript Callbacks sein.

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All Hosts

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View Host Status Detail For All Hosts

Service Status Details For All Host

Select hosts / services with leftclick to send multiple commands. Select multiple with shift + mouse.

select all (hosts) - unselect all - all problems - all with downtime

Host	Service	Status	Last Check	Duration	Attempt	Status Information
Core Company Apps	Core Company Apps	OK	16:23:02	1d 5h 44m 39s	1/3	OK - everything is fine
Tomcat	Tomcat	OK	16:23:02	1d 5h 44m 39s	1/3	OK - everything is fine
gearman	gearman queues	OK	16:23:01	0d 1h 1m 29s	1/3	check_gearman O...
	gearman worker	OK	16:23:01	1d 5h 39m 44s	1/3	check_gearman O...
influxdb	influxdb usage	OK	16:23:02	1d 5h 38m 43s	1/3	INFLUXDB SIZE O...
js_cmd_menu	disk	OK	16:23:02	0d 1h 0m 26s	1/3	DISK OK - free spa...
	js_cmd_menu: parents	OK	16:23:01	0d 1h 0m 57s	1/3	HTTP OK: Status li...
js_form_menu	active checks	OK	16:23:02	0d 1h 0m 41s	1/3	DISK OK - free spa...
	disable active checks	OK	16:23:02	0d 1h 0m 25s	1/3	HTTP OK: Status li...
omd	enable active checks	OK	16:15:12	1d 5h 44m 12s	1/3	Overall state: running
	check_omd	OK	16:23:02	1d 5h 42m 47s	1/3	DISK OK - free spa...
	disk	OK	16:23:02	1d 5h 41m 45s	1/3	HTTP OK: Status li...
	http	OK	16:23:03	1d 5h 40m 43s	1/3	HTTP OK: Status li...
	https	OK	16:15:29	1d 5h 42m 23s	1/3	OK - Certificate 'demo.local' will ex...
	https-certificate	OK	16:23:03	0d 2h 41m 19s	1/3	OK - load average:...
	load	OK	04:14:05	1d 3h 27m 47s	1/3	OK - 4 plugins ch...
	node_exporter	OK	16:19:52	0d 10h 47m 40s	3/3	NTP CRITICAL: No response from ...
	ntp	CRITICAL	16:23:04	1d 5h 42m 44s	1/3	SSH OK - OpenSS...
	ssh	OK	16:23:04	1d 5h 41m 42s	1/3	SWAP OK - 98% fr...
	swap	OK				



Action Menu

Wenn alle Stricke reißen kann das generische HTML Attribut verwendet werden um beliebiges HTML in das Menü zu packen. Zum Beispiel für Formulare.

Thruk

user input: 123

General

Home

Documentation

Logout

Panorama View

Dokuwiki

Current Status

Tactical Overview

Map

Hosts

Services

Host Groups

Summary (Grid)

Service Groups

Summary (Grid)

Mine Map

Problems

Services (Unhandled)

Hosts (Unhandled)

Network Outages

Reports

Availability

Trends

Alerts

History (Summary)

Notifications

Event Log

Current Network Status

Last Update: Mon Nov 5 15:00:25 CET 2018 (∞90s)

Thruk 2.25-20181031 - www.thruk.org - OMD 2.81~2018-11-01-labs-edition

Logged in as omdadmin

View Service Status Detail For All Host Groups

View Status Overview For All Host Groups

View Status Summary For All Host Groups

View Status Grid For All Host Groups

Host Status Totals

Up	Down	Unreachable	Pending
15	0	0	0
All Problems		All Types	
0		15	

Service Status Totals

OK	Warning	Unknown
41	0	1
All Problems		
2		

Host Status Details For All Host Groups

select host with leftclick to send multiple commands. Select multiple with shift + mouse.

select all - unselect all - all problems - all with downtime

Host	Status	Last Check	Duration	Status Information
Core Company Apps	UP	15:00:02	1d 4h 51m 54s	OK - business process calculation of 4 nodes complete in 0.007s
Tomcat	UP	15:00:02	1d 4h 51m 54s	OK - business process calculation of 7 nodes complete in 0.020s
gearman	UP	15:00:03	0d 12h 9m 52s	PING OK - Packet loss = 0%, RTA = 0.06 ms
influxdb	UP	15:00:03	0d 19h 5m 18s	PING OK - Packet loss = 0%, RTA = 0.10 ms
js_cmd_menu	UP	15:00:07	0d 0h 8m 12s	PING OK - Packet loss = 0%, RTA = 0.07 ms
js_form_menu	UP	15:00:06	0d 0h 7m 56s	PING OK - Packet loss = 0%, RTA = 0.10 ms
omd	UP	test 123	ok	PING OK - Packet loss = 0%, RTA = 0.13 ms
oracle	UP	15:00:03	1d 4h 49m 56s	PING OK - Packet loss = 0%, RTA = 0.12 ms
pnp	UP	15:00:11	0d 0h 37m 24s	PING OK - Packet loss = 0%, RTA = 0.13 ms
router	UP	15:00:11	0d 12h 6m 34s	PING OK - Packet loss = 0%, RTA = 0.07 ms
sakuli	UP	15:00:17	1d 4h 20m 28s	PING OK - Packet loss = 0%, RTA = 0.12 ms



Action Menu

Bei plain HTML muss man sich dann allerdings selbst um das Eventhandling kümmern.

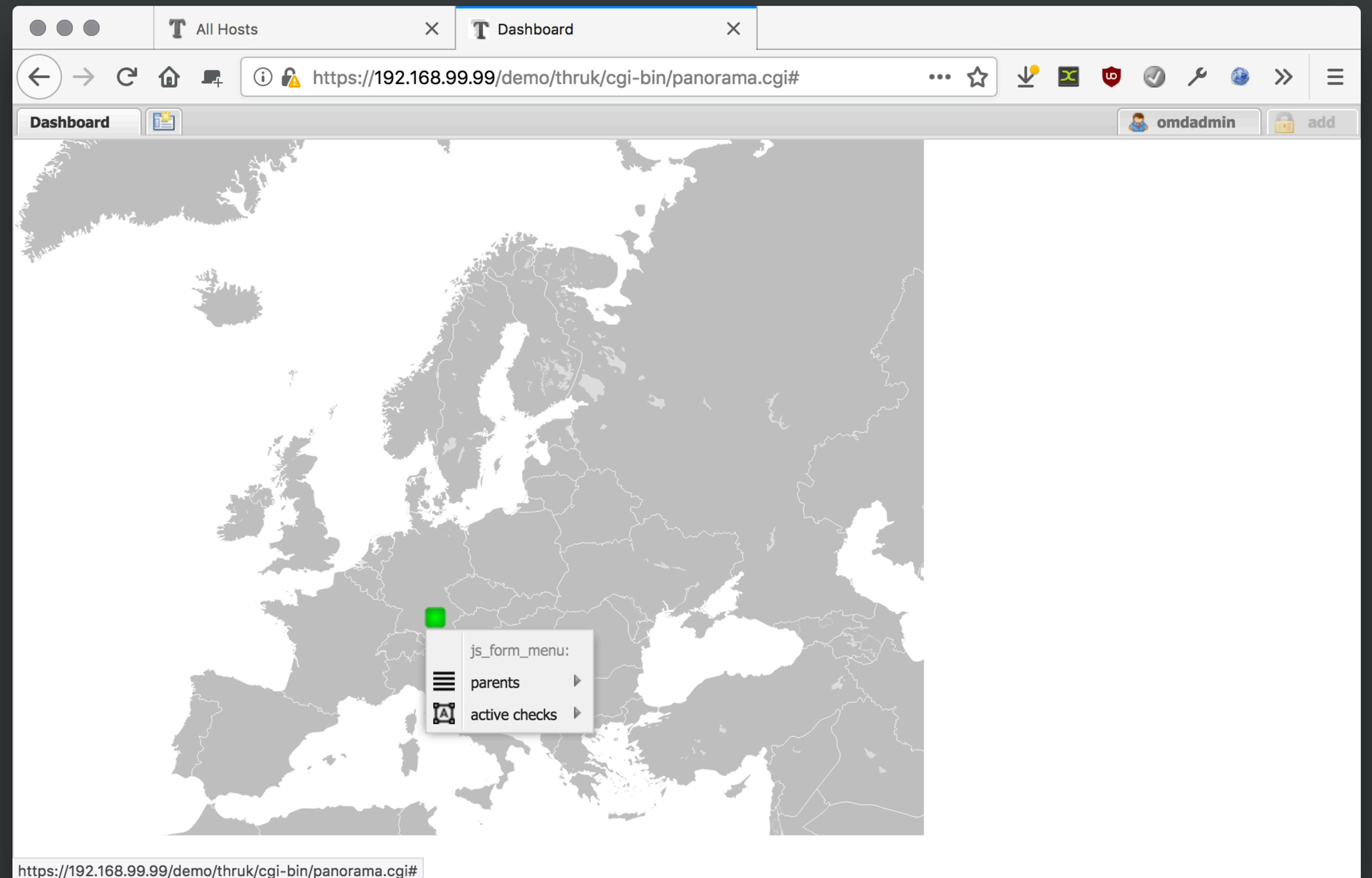
```
function js_form_menu(cfg) {
  return({
    "icon": "/thruk/themes/{{theme}}/images/dropdown.png",
    "title": "javascript advanced menu",
    "menu": [{
      "icon": "/thruk/themes/{{theme}}/images/page_white_key.png",
      "html": "<b>test</b>"
        + "<input type='text' id='menu_input'>"
        + "<input type='button' value='ok' onclick='tst_handler()'>"
    }]
  });
}

function tst_handler() {
  thruk_message(0, "user input: "+jQuery('#menu_input').val());
}
```



Ach ja

Selbstverständlich können JS Menüs auch in den Panorama Dashboards verwendet werden.





Die Zukunft...

RIP cgi.cfg



Die cgi.cfg war bisher notwendig, da in OMD auch noch alte GUIs von Nagios und Icinga unterstützt wurden. Seit OMD 3 ist das nicht mehr der Fall und daher wird die cgi.cfg in die normalen thruk_*.conf integriert.

Mehr Federation



Genauso wie Business Prozesse und im Config Tool, wird auch im Bereich Reporting mehr Federation möglich sein. Z.b. auf Reports der angebundenen Instanzen zugreifen. Bei Recurring Downtimes ebenso.

You name it



Neue Ideen aus der Community...



Dankeschön!