

Let's Improve Your Web Performance

JOMLAUNCH
October 2023

```
$ sudo whoami --help
```

```
if [ $(whoami) != "root" ]; then  
    echo "Cu citer"  
    exit 1  
fi
```

Market Price

BASIC TUNING

RM 500 – 1K

ADVANCE TUNING

RM 5K – 10K

LOAD & STRESS TEST

RM 10K – 200K

SPECIAL TUNING

RM 10K – 200K

Server Architecture

Single sites

Single Server



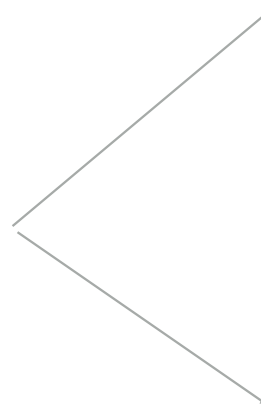
Single Server



User



Web Server



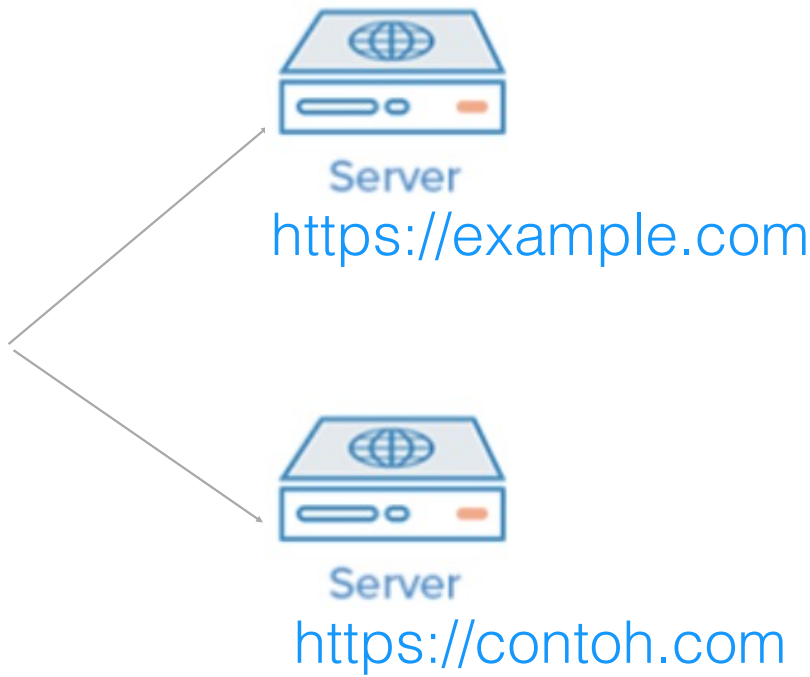
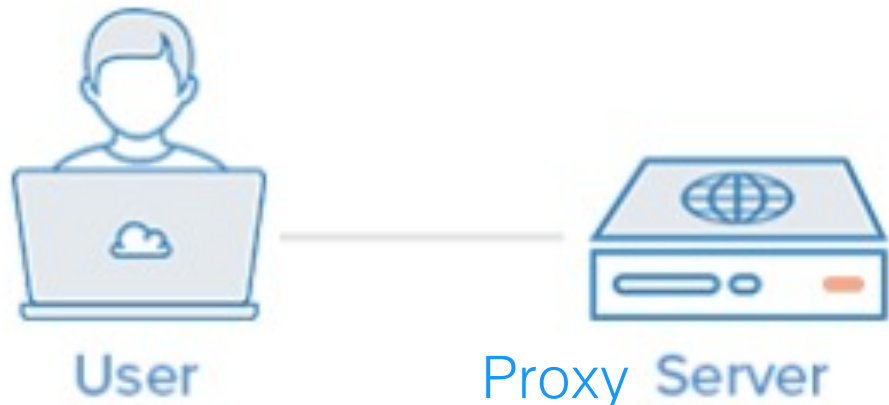
Multiple sites

<https://example.com>

<https://contoh.com>

Multiple server + multiple sites

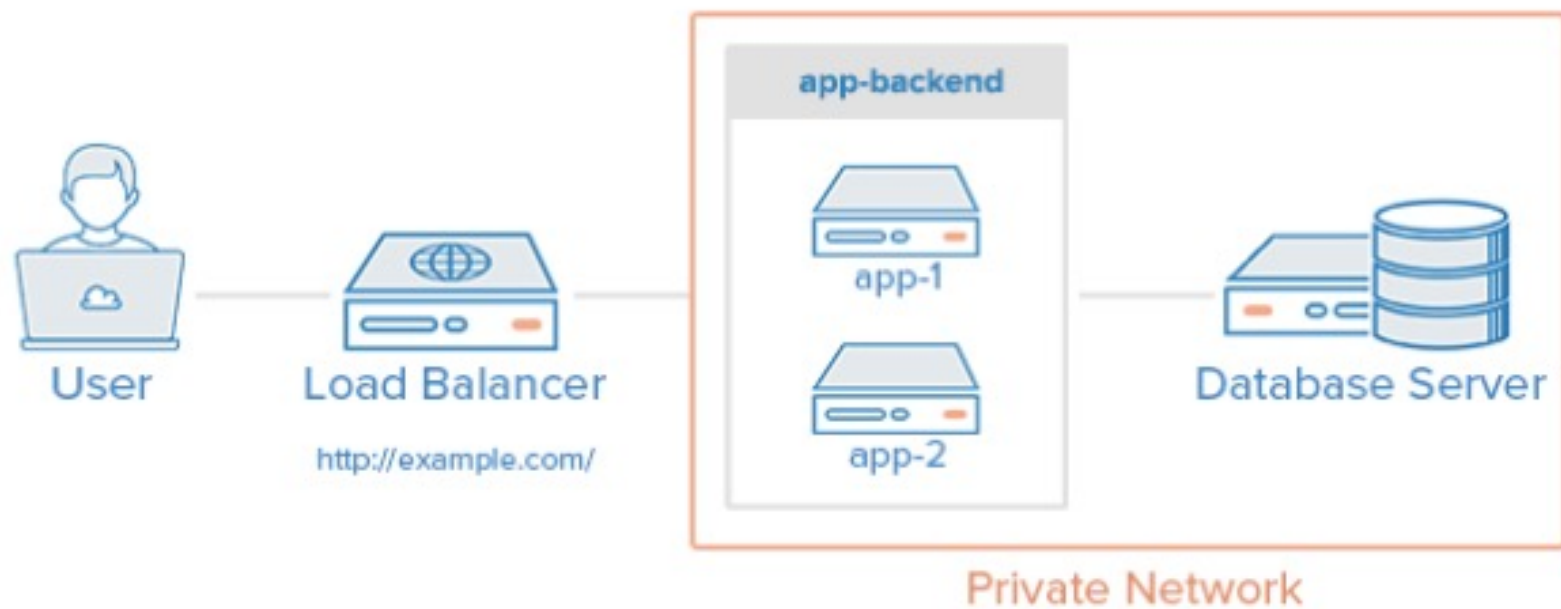
Single Server

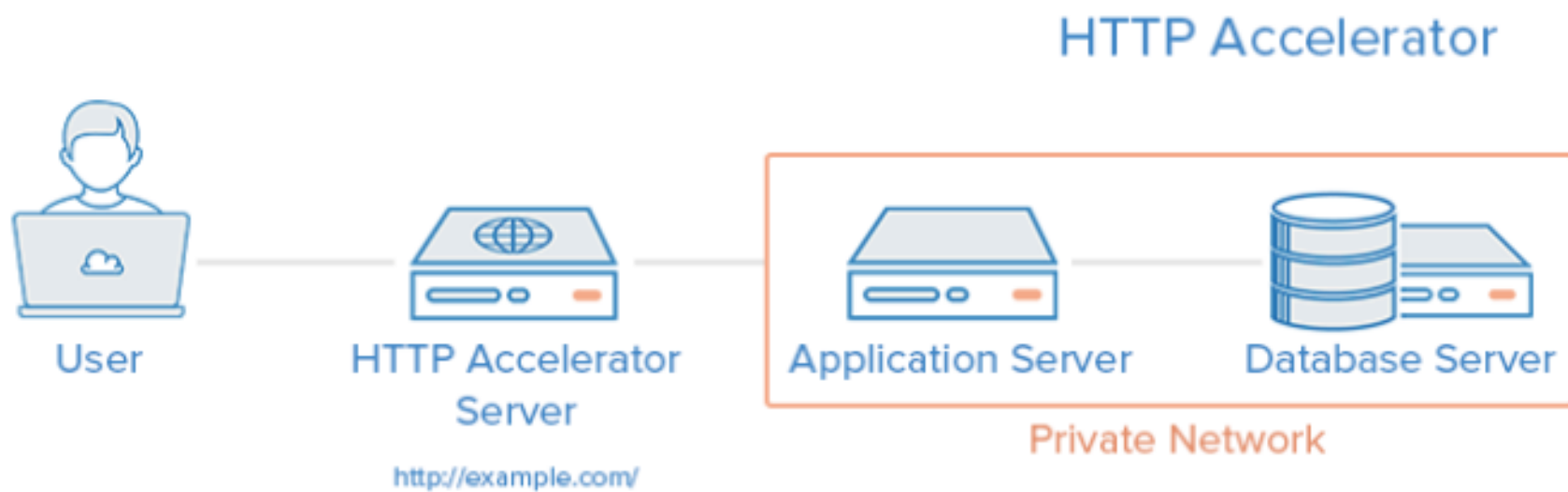


Separate Database Server

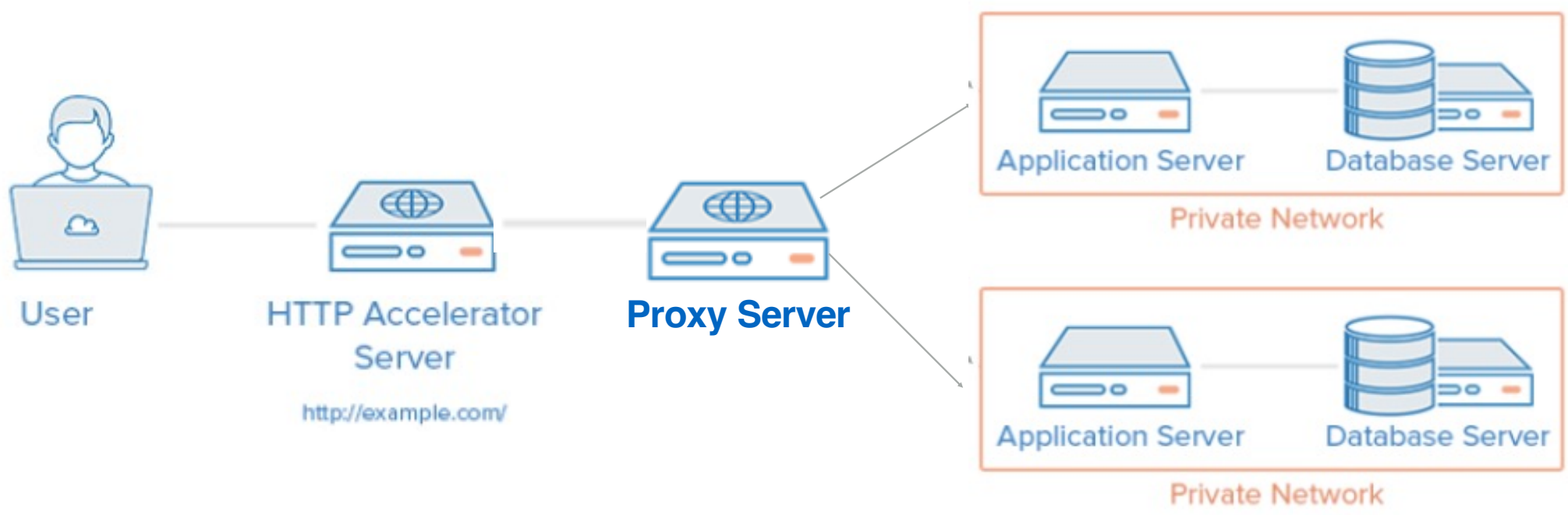


Load Balancer

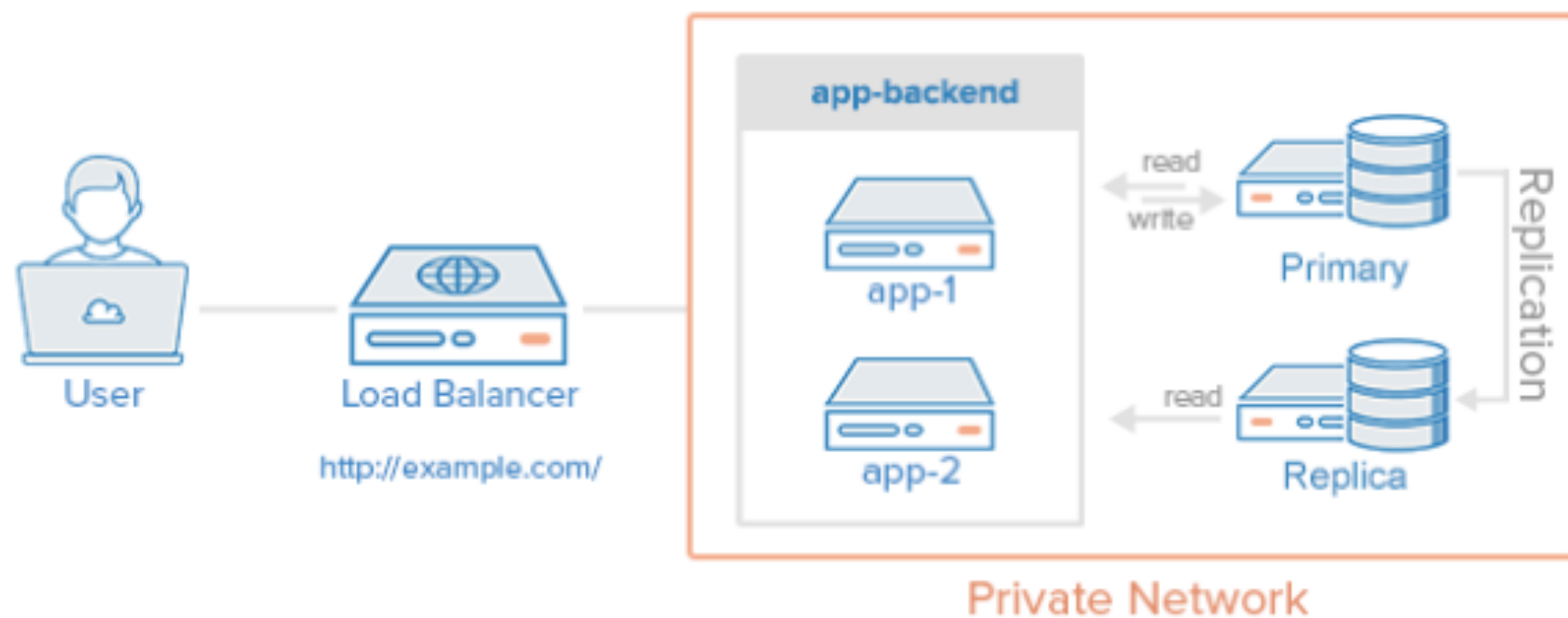




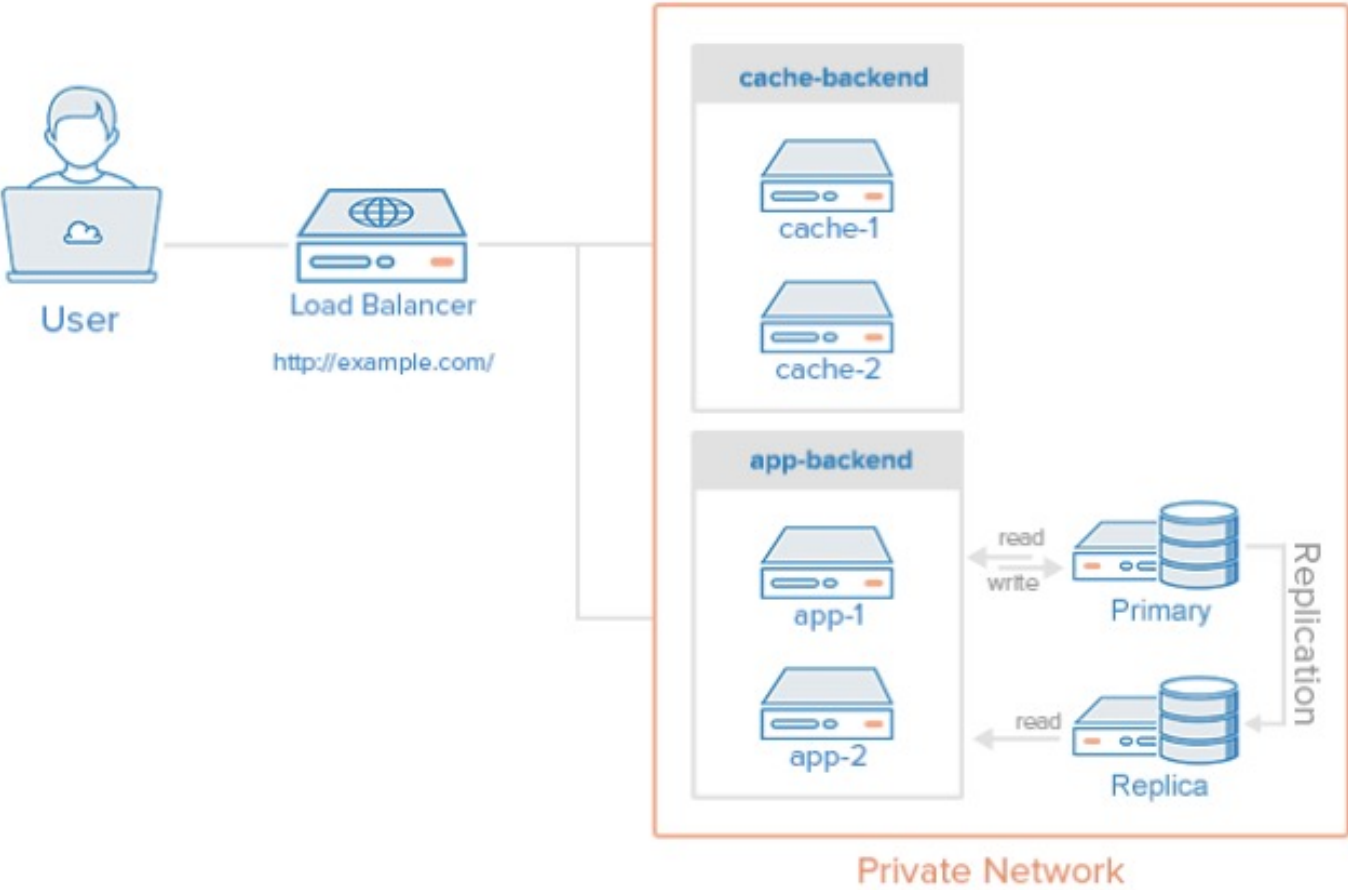
http Accelerator + Proxy Server



Primary-Replica Database Replication



Load Balancer + Cache + Replication Example



What is your page's speed performance?

How to analyze?

Tools

1. Using web browser – Inspect Element, plugin
2. GTMetrix <https://gtmetrix.com>
3. Pingdom <https://tools.pingdom.com>
4. etc etc

Web Server

Nginx or Litespeed/OpenLiteSpeed

Nginx Web Server

1. Adjust worker_processes
2. Maximize worker_connections
3. Enable Gzip Compression
4. Enable Cache for static files
5. Disable access_log * (???)
6. Monitor health and performance

Apache Web Server

1. Remove unused Modules
2. On mod_gzip/mod_deflate
3. Hostname Lookup off
4. Keep Alive Time Out not high
5. Increase write buffer size
6. Increase Max Open Files
7. Setting Apache Processes and Child

OpenLiteSpeed Web Server

1. Use LSCache
2. Enable HTTP/2 and use HTTPS
3. Enable GZIP
4. Use server-level caching mechanisms like object caching or page caching.
5. Optimize Keep-Alive settings to reuse connections between the server and clients, reducing latency.
6. Increase Max Open Files

Web Optimization

1. Reduce image size - Tinyjpg / Tinypng, Robin etc
2. Cache, Redis etc
3. Update Joomla/WordPress
4. Setting Reading Page
5. CDN
6. Dont upload audio/video
7. Best theme
8. Reduce external http request
9. Use lazy load
10. Etc etc

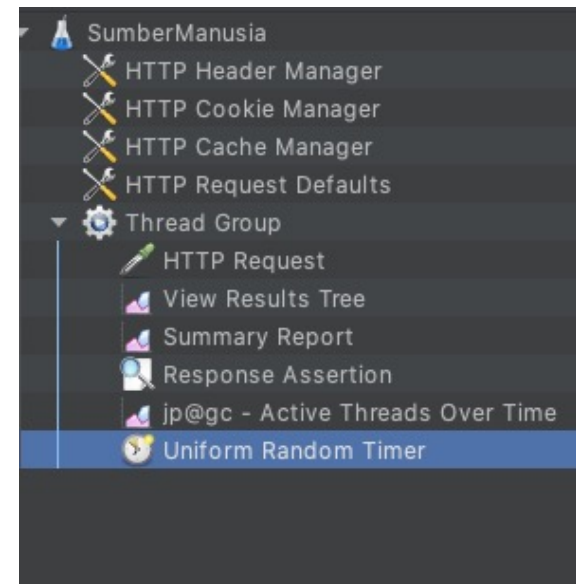
<https://www.wpbeginner.com/wordpress-performance-speed/>

- ApacheBench

```
$ ab <OPTIONS> <WEB_SERVER_ADDRESS>/<PATH>
```

- n: The number of requests to send
- c: The number of concurrent requests to make
- t: A duration in seconds after which ab will stop sending requests

```
$ ab -n 100 -c 10 -t 60 https://DomainName.com/
```





 Grafana Labs



CHECK_MK Manager 1.1.001
Notification configuration 8 rows cmkadmin (admin) 17:07

14 changes
Main Menu
New Rule
Show user rules
Analyse
Hide Bulks

Currently there are no unsent notification bulks pending.

TACTICAL OVERVIEW

Hosts	Problems	Unhandled	State
100%	7	2	0
31156	74	12	5
Events	Problems	Unhandled	State
8	8	4	

VIEWS

- Overview
- Hosts
- Host Groups
- Services
- Service Groups
- Metrics
- Business Intelligence
- Problems
- Event Console
- Inventory
- Other

... EDIT

WATO - CONFIGURATION

- Main Menu
- Monitoring Agents
- Hosts
- Host Tags
- Global Settings
- Host & Service Parameters
- Manual Checks
- Check Plugins
- Host & Service Groups
- Users
- Roles & Permissions
- Contact Groups
- Notifications

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Global notification rules

ACTIONS	TYPE	PLUGIN	BULK	DESCRIPTION	CONTACTS	CONDITIONS
	✓	mail		General notifications on working hours	• all contacts of the notified object	1 conditions
	✓	slack		Web Team: Slack notification	• all contacts of the notified object	2 conditions
	✓	axiomail		Tickets for networking	• email address: support.network@mycompany.org	4 conditions
	✗	mail		Cancel general notifications that help desk will adopt	• all contacts of the notified object	2 conditions
	✓	mail		Help Desk Lyon on working hours	• all contacts of the notified object	5 conditions
	✓	sms		SMS Munich on non-working hours	• contact groups: emerg_team_munich	4 conditions
	✓	sms		General SMS on non-working hours	• contact groups: emerg_team	7 conditions
	✗	mail	✓	Notify all contacts of a host/service via HTML email	• all contacts of the notified object	(no conditions)