



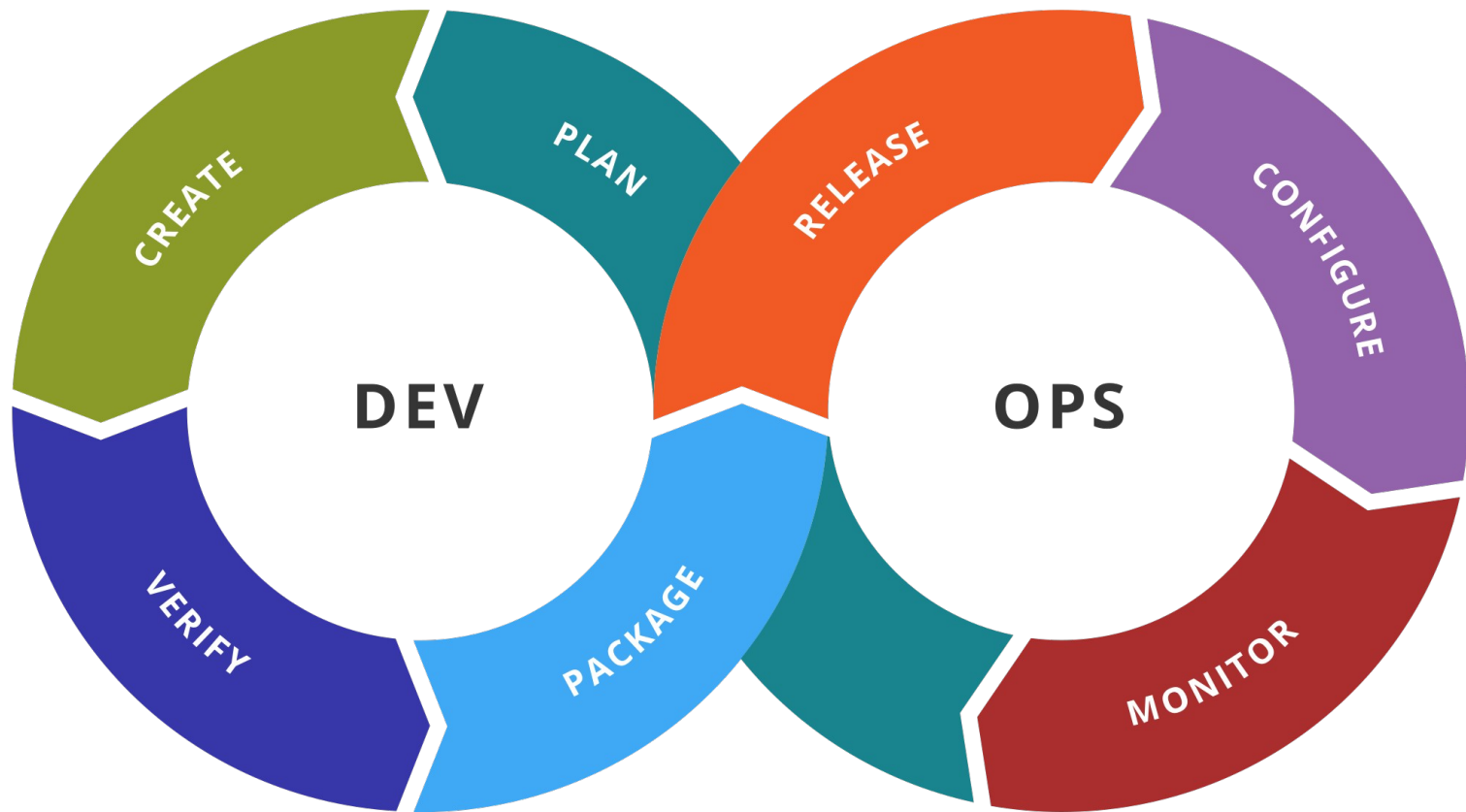
UiO : **University of Oslo**

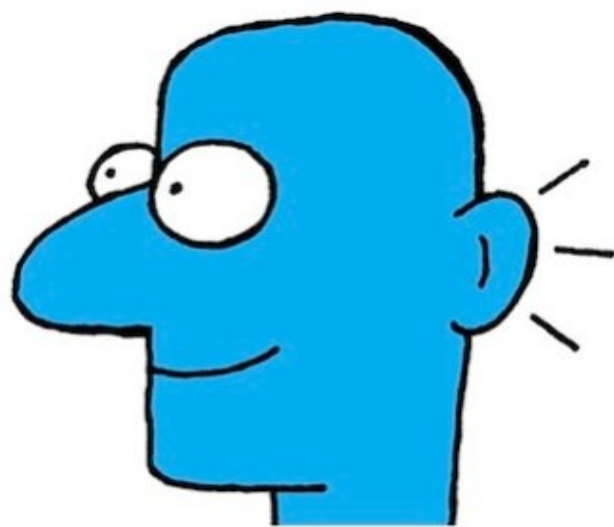
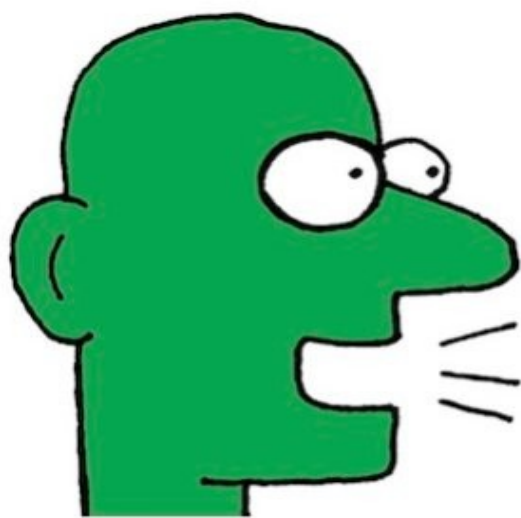


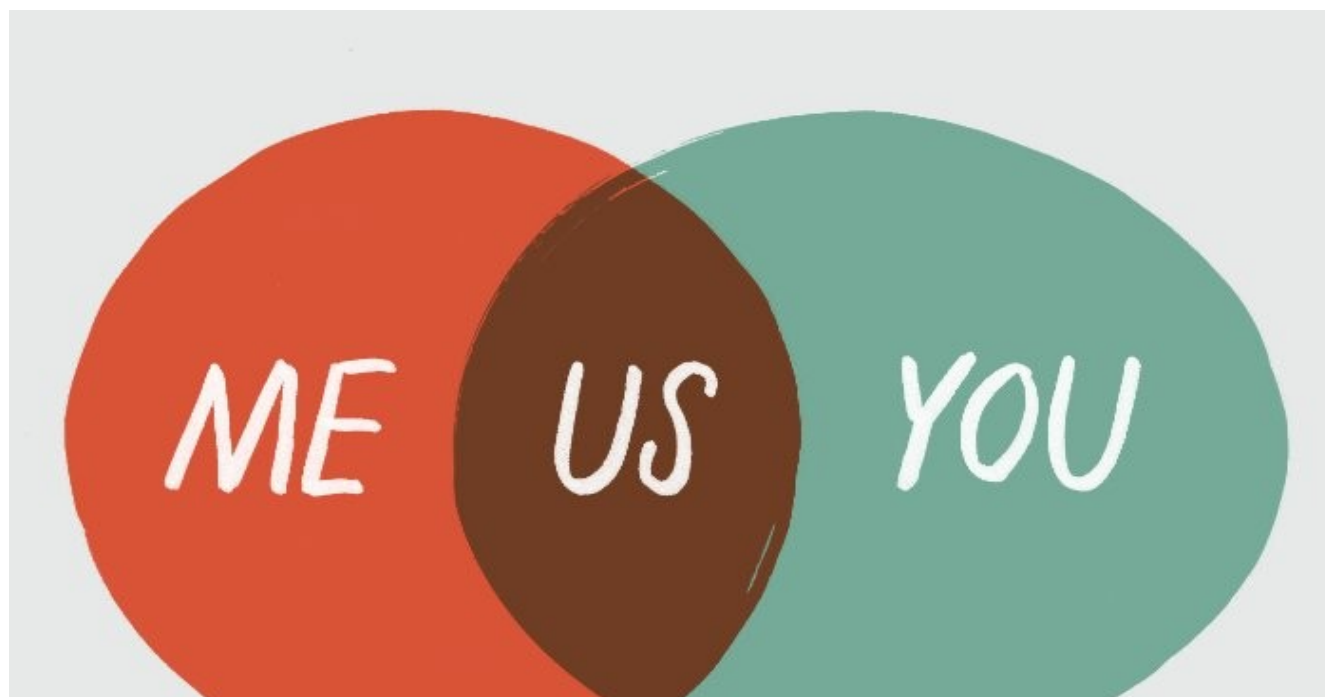
ZABBIX in a DEVOPS environment

Rafael Martinez Guerrero - @rafaelma_
Center for Information Technology Services
University of Oslo

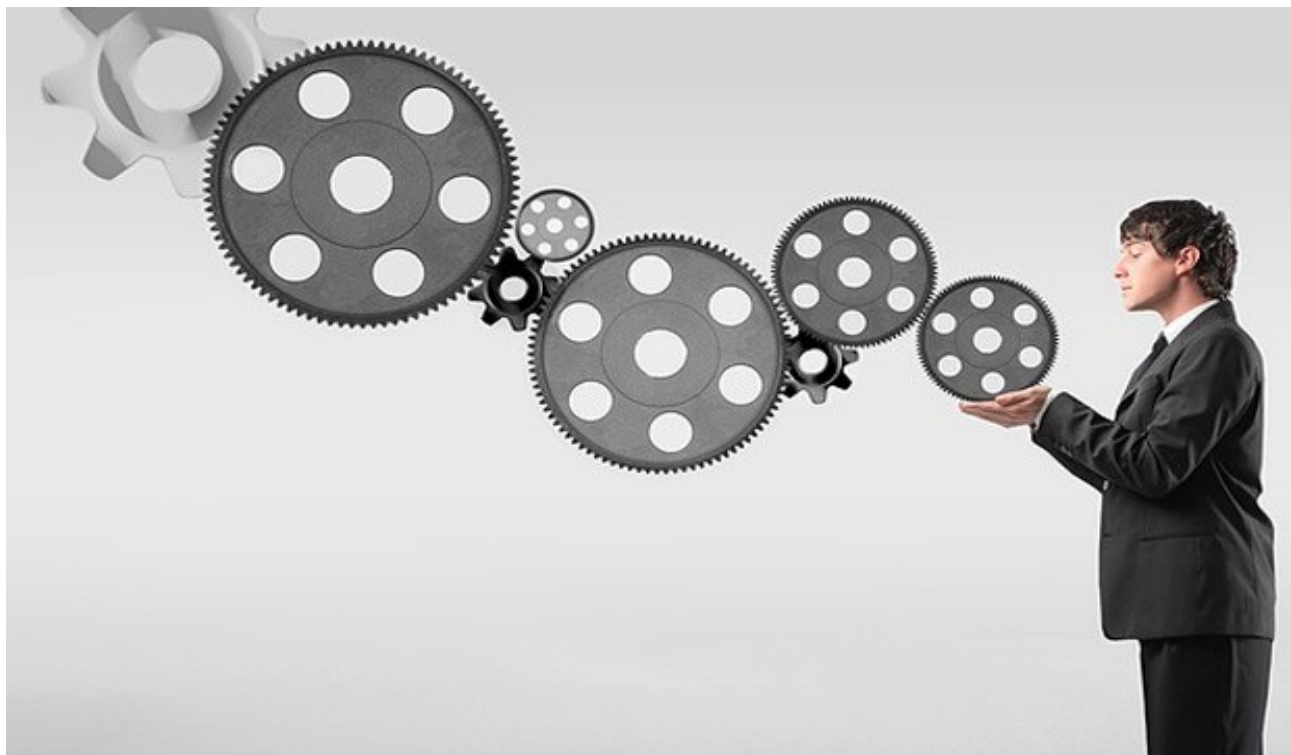
Zabbix conference 2017
15-16 Sep. Riga, Latvia









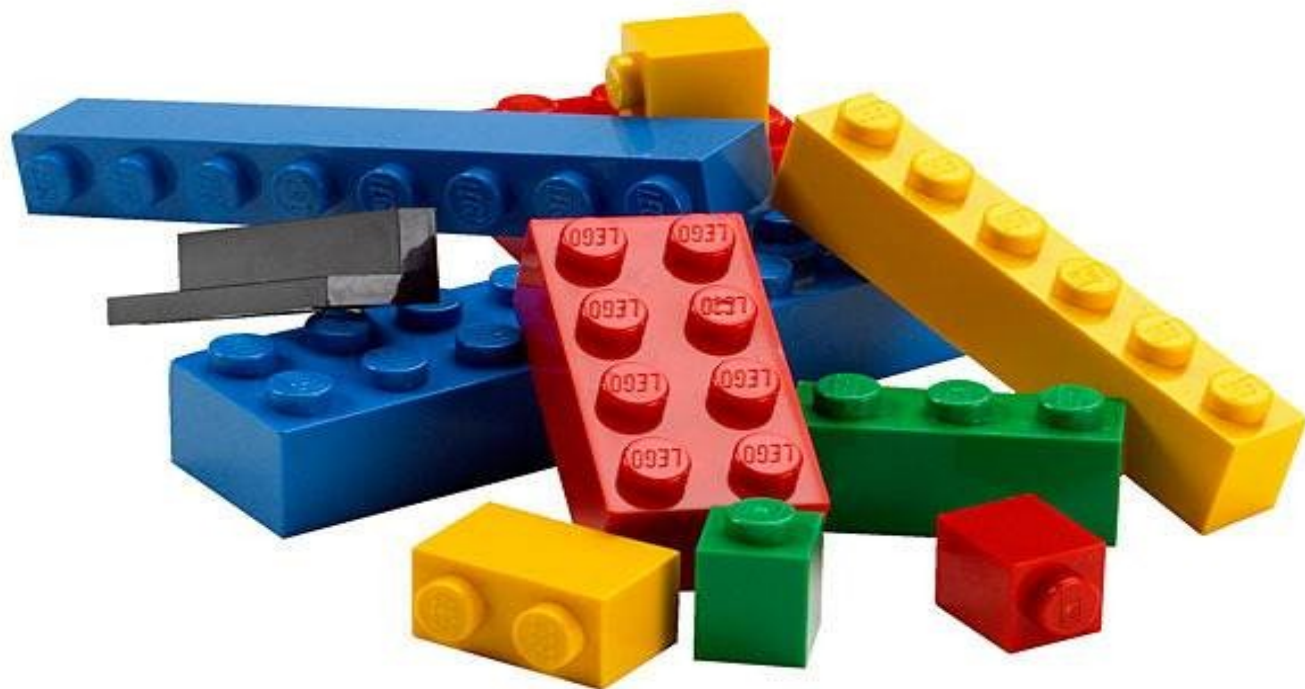






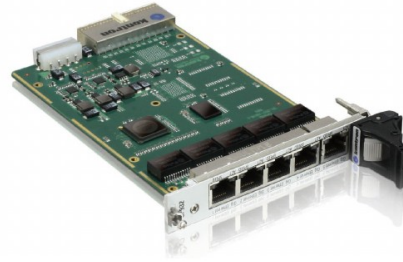


Instances









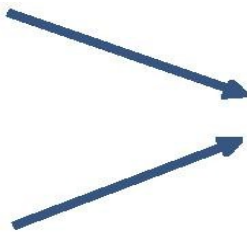
NIVLHEIM



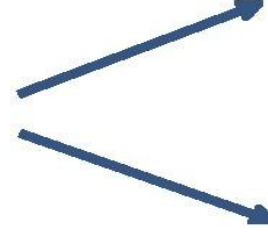
Configuration files



System information



Nivlheim



application-health.json

```
{
  "metadata": {
    "zabbix-name": "nettskjema-prod",
    "instance": "nettskjema-1-1",
    "host-group": "siteadmin-uav-web-wapp",
    "url": "https://nettskjema.uio.no/",
    "updated": 1453985160811
  },
  "database": {
    "status": true,
    "importance": "high"
  },
  "api-1": {
    "status": true,
    "importance": "average"
  },
  "ldap": {
    "status": true,
    "importance": "high"
  }
}
```



Nivlheim



 **CF**EngineTM

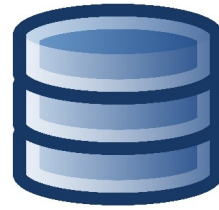




WebApp server



WebApp server



NIVLHEIM

Mgmt server



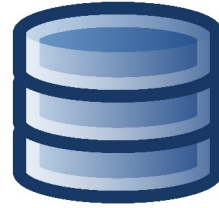
ZABBIX

WebApp server

`<appname>-health.json`

WebApp server

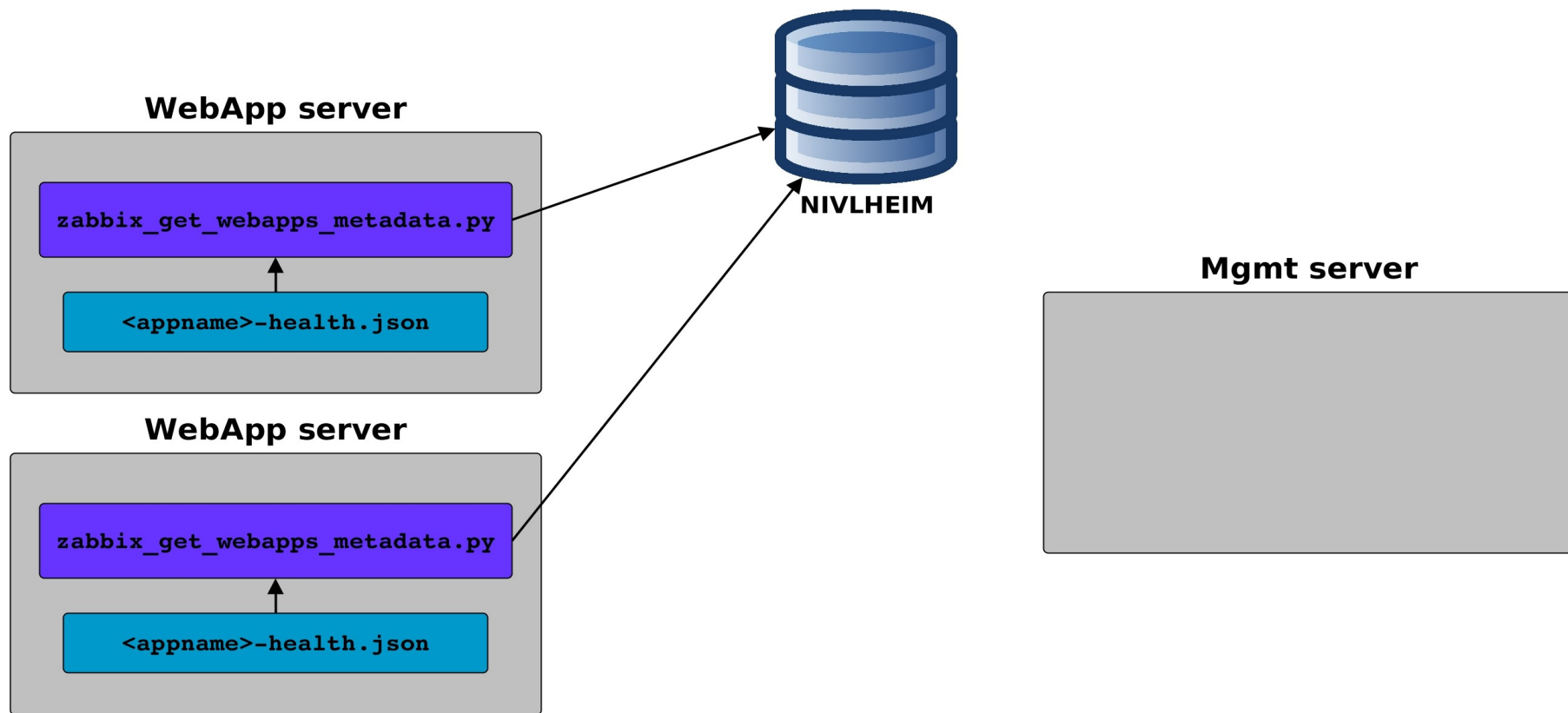
`<appname>-health.json`



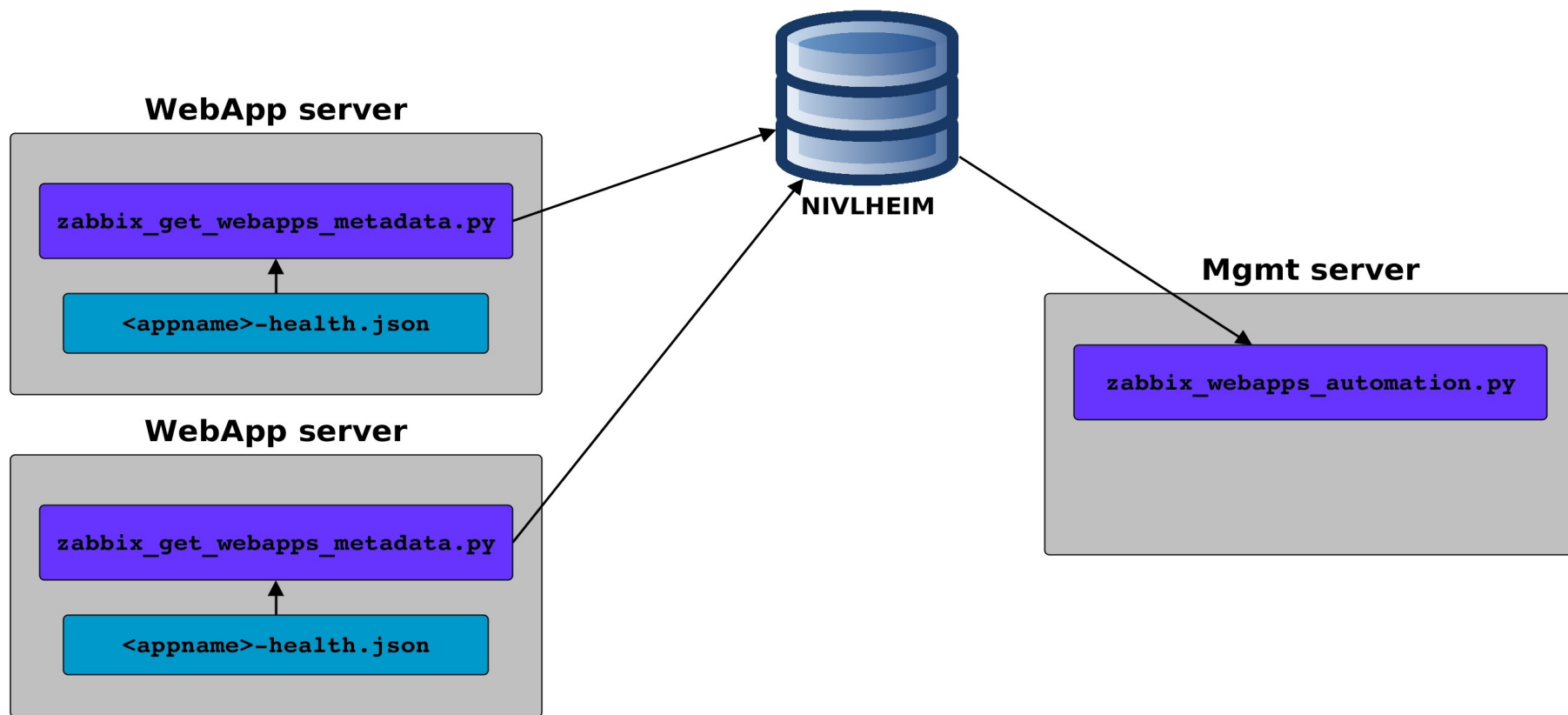
NIVLHEIM

Mgmt server

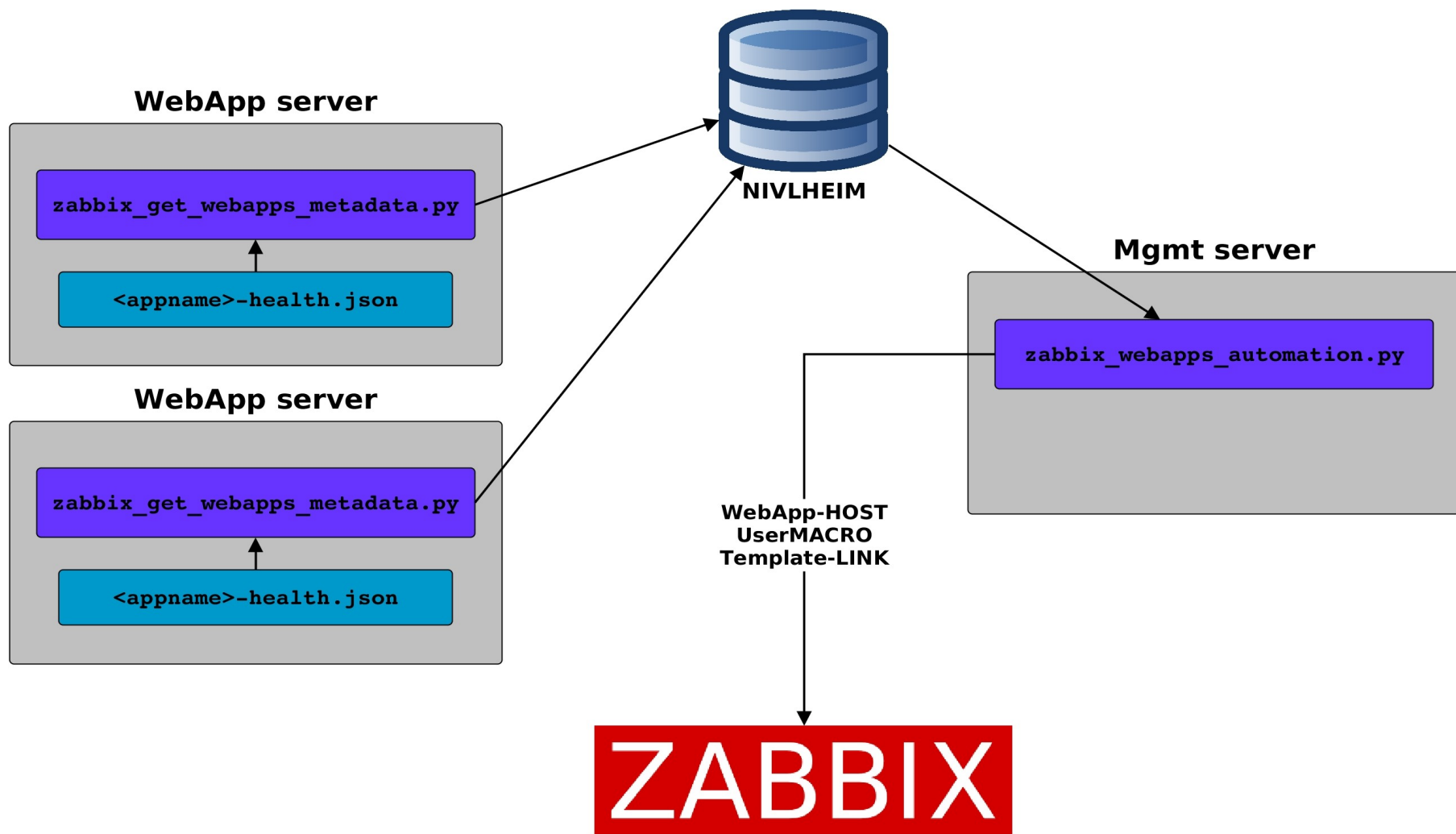
ZABBIX

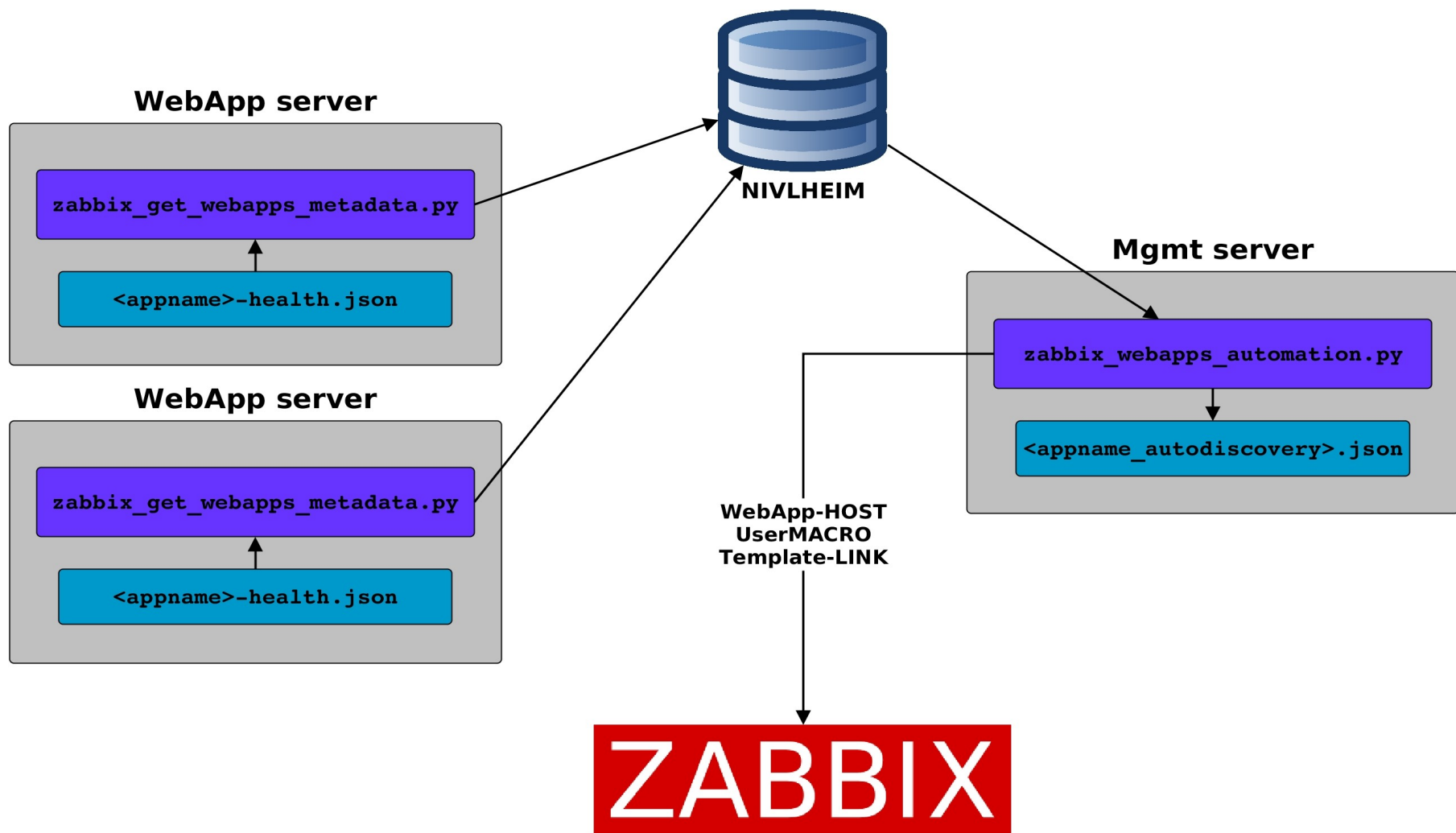


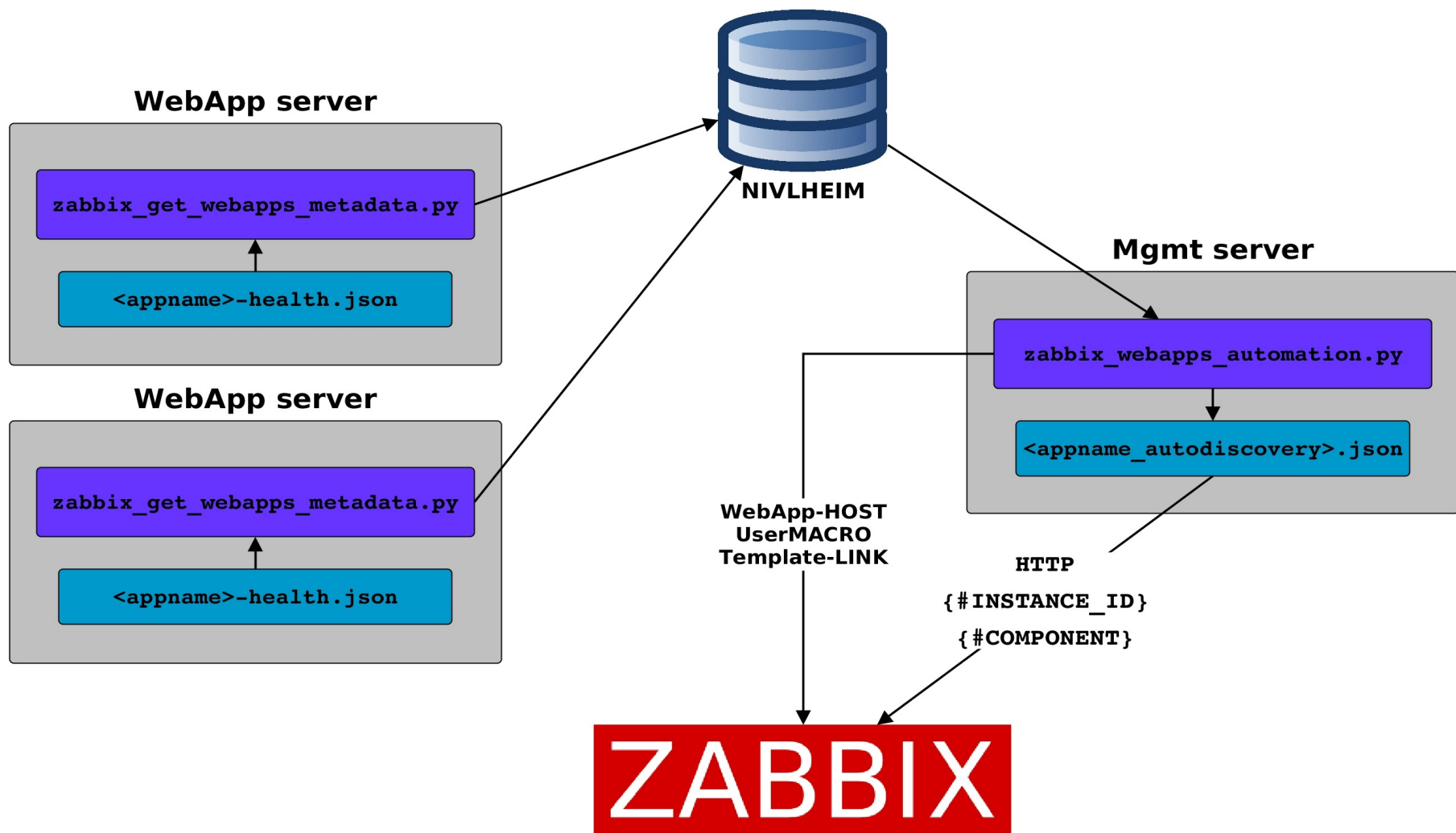
ZABBIX



ZABBIX









WebApp server



Mgmt server



ZABBIX



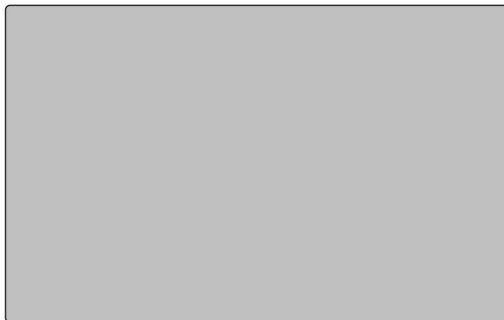
WebApp server



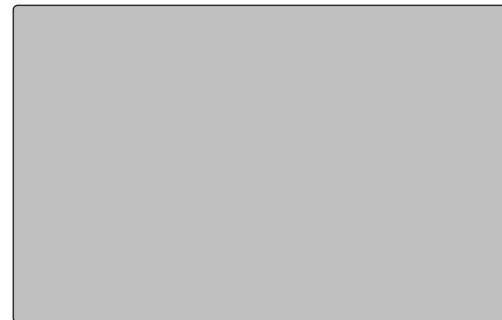
Mgmt server



WebApp server



Mgmt server



WebApp HOST

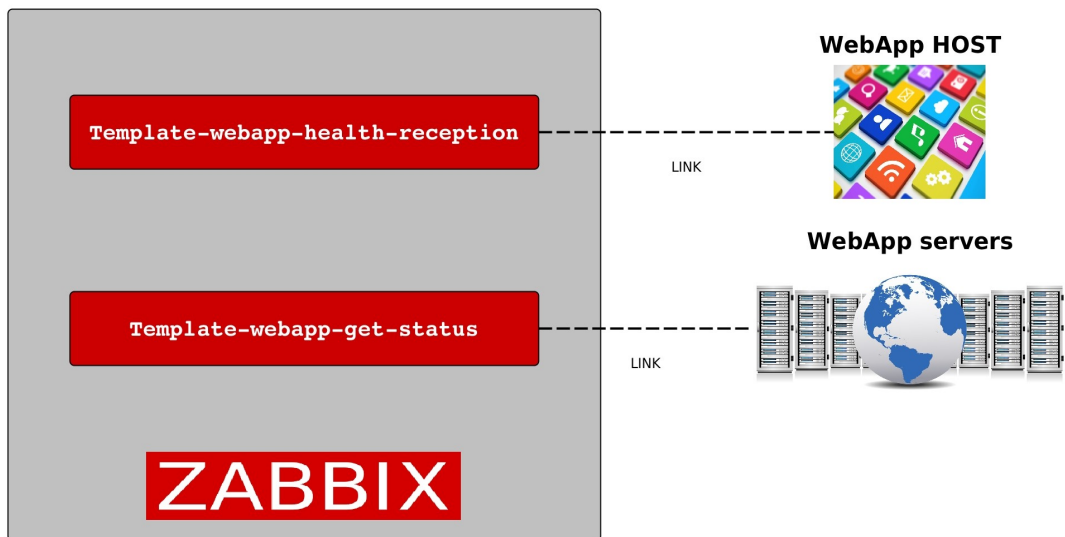


LINK

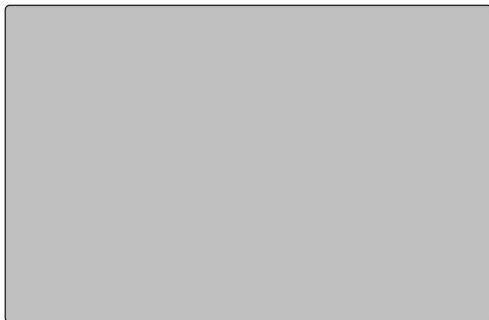
WebApp server



Mgmt server



WebApp server



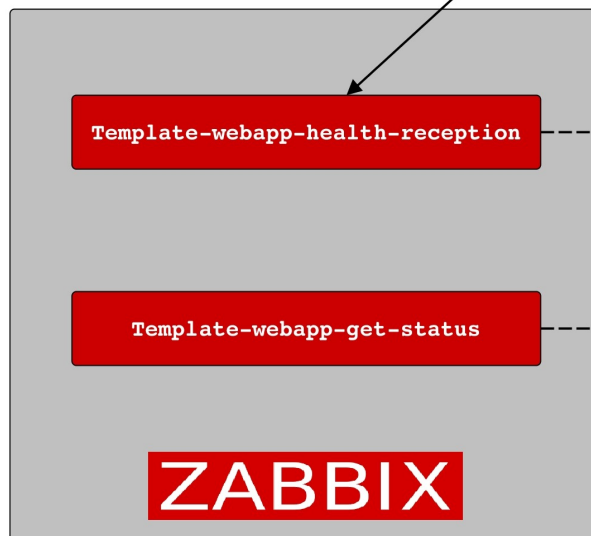
Mgmt server



HTTP

{#INSTANCE_ID}

{#COMPONENT}



WebApp HOST



LINK

WebApp servers



LINK

WebApp server

<appname>-health.json

Mgmt server

<appname_autodiscovery>.json

HTTP

{#INSTANCE_ID}

{#COMPONENT}

Template-webapp-health-reception

Template-webapp-get-status

ZABBIX

WebApp HOST

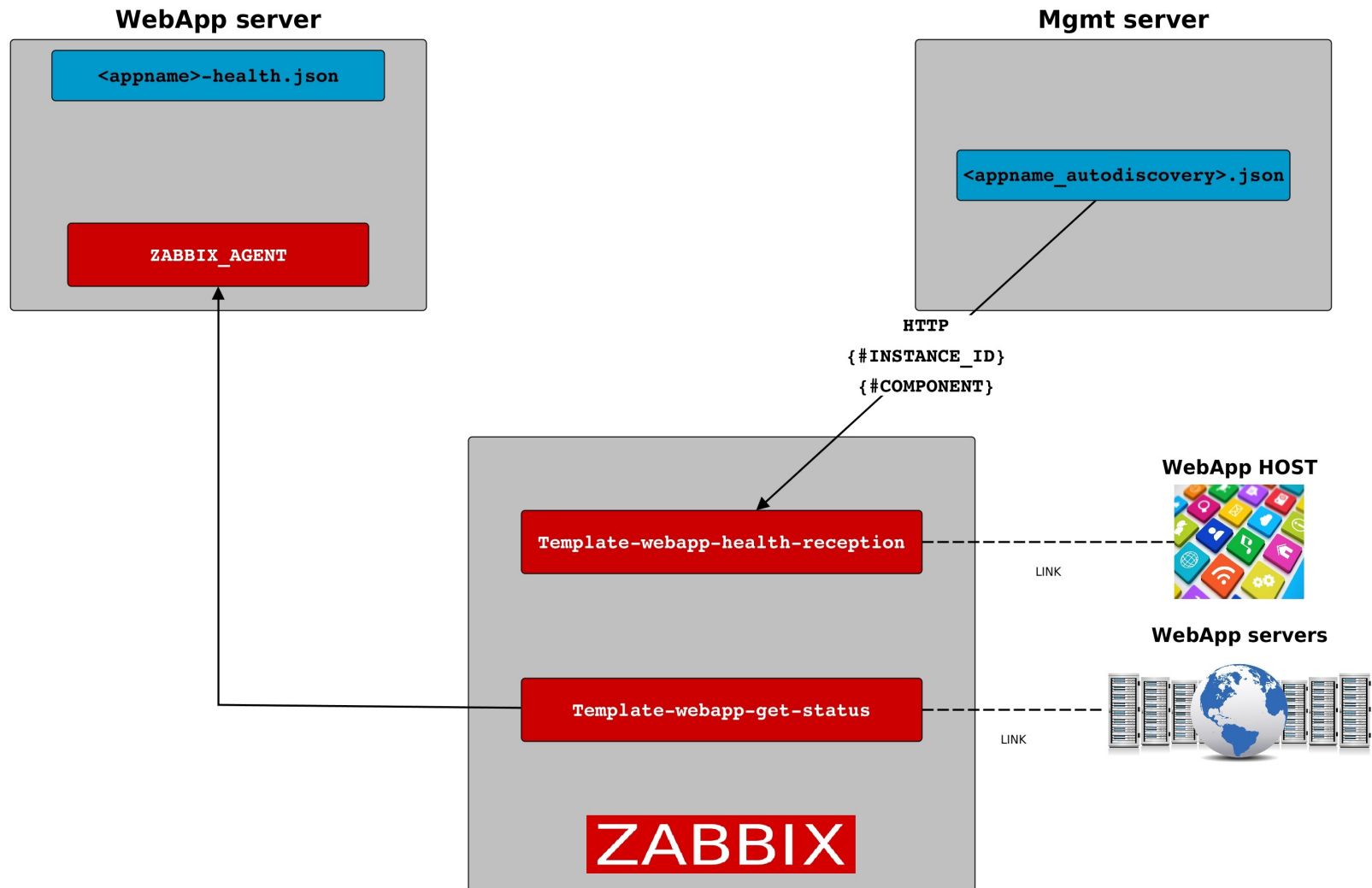


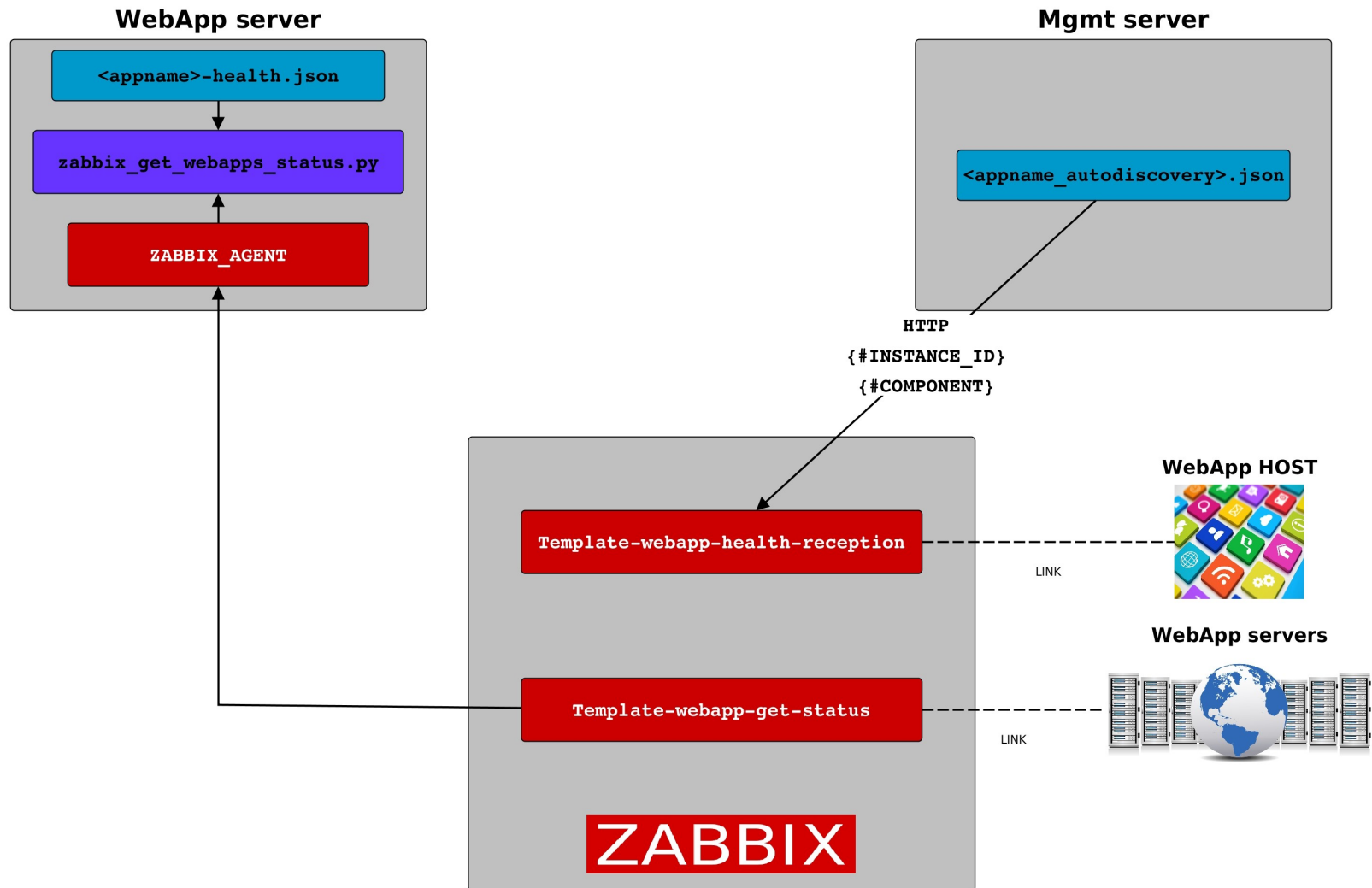
LINK

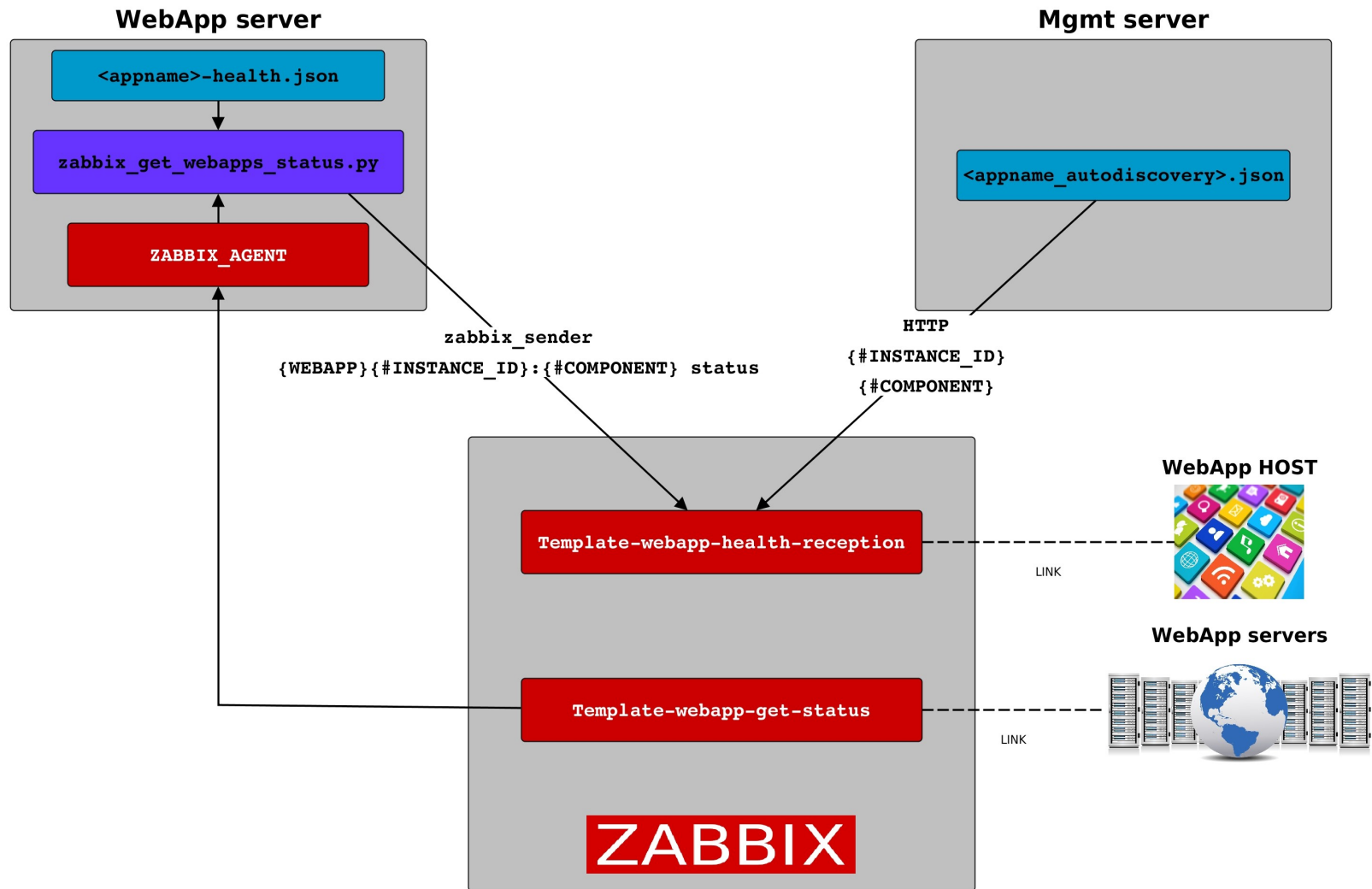
WebApp servers



LINK







Components + web monitoring

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Overview Web Latest data Triggers Events Graphs Screens Maps Discovery IT services UIO-monitor-prod

Dashboard

Last 20 issues

Host	Issue	Last change	Age	Info	Ack	Actions
tp-prod	Instance [tp] has problems with the component [tpws]	2017-09-11 12:43:46	43m 59s	No	3	
tp-prod	Instance [tp] has problems with the component [uib-ldap]	2017-09-11 12:43:46	43m 59s	No	3	
tp-prod	Instance [tp] has problems with the component [ttnu-ldap]	2017-09-11 12:43:46	43m 59s	No	3	
tp-prod	Instance [tp] has problems with the component [uio-ldap]	2017-09-11 12:43:46	43m 59s	No	3	
digekssadm-utv-1	Instance [w3.vuyb-03-digekssadm-1] health file is older than 1200 sec.	2017-09-11 07:51:18	5h 36m 27s	No	2	
sokweb-utv	Instance [w3.vuyb-01-soknadweb-1] health file is older than 1200 sec.	2017-09-04 16:32:51	6d 20h 54m	No	2	

6 of 7 issues are shown Updated: 13:27:45

Status of Zabbix

Web monitoring

Host group	OK	Failed	Unknown
Role-web-applications	59	4	0

Updated: 13:27:45

System status

Host status

Favourite screens

Favourite maps

Favourite graphs

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Overview Web Latest data Triggers Events Graphs Screens Maps Discovery IT services UIO-monitor-prod

Details of web scenario: Webapp url status

Step	Speed	Response time	Response code	Status
HTTP return code from [https://nettskjema.uio.no/status.txt]	200 Bps	25ms	200	OK
TOTAL		25ms		OK

Filter ▲

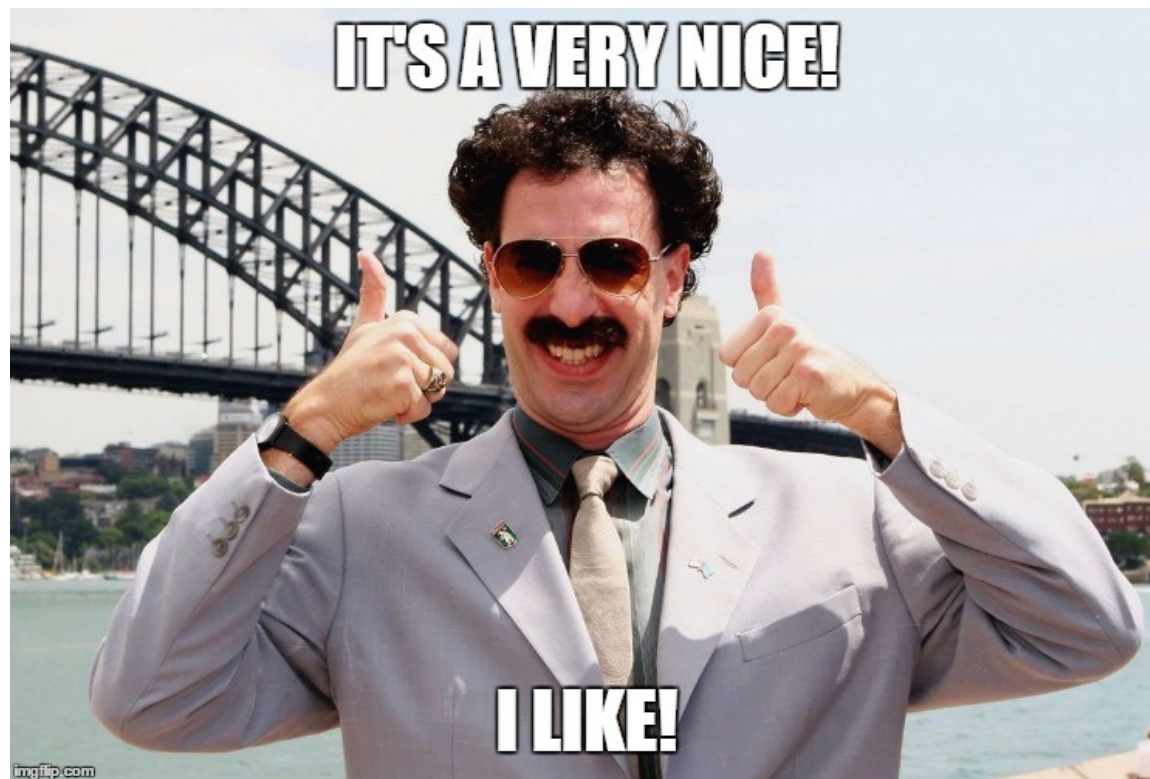
Zoom: 5m 15m 30m 1h 2h 3h 6h 12h 1d 3d 7d 14d 1m All 2017-09-08 13:26 - 2017-09-11 13:26 (now)

Webapp url status: Speed (3d)

Download speed for step "HTTP return code from [https://nettskjema.uio.no/status.txt]" of scenario "Webapp url status". [avg] 202.9 Bps min 1 Bps avg 185.7 Bps 23

Webapp url status: Response time (3d)

Response time for step "HTTP return code from [https://nettskjema.uio.no/status.txt]" of scenario "Webapp url status". [avg] 24.9ms min 21.4ms avg 32.49ms 3s 72.



IT'S A VERY NICE!

I LIKE!



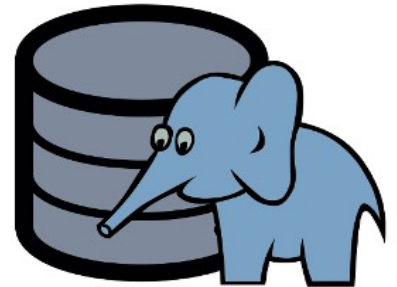


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Zabbix-CLI



PgBackMan