

# Text to speech alerts with Asterisk

Zabbix Conference Lightning Talk.

06 October 2018



Asterisk™

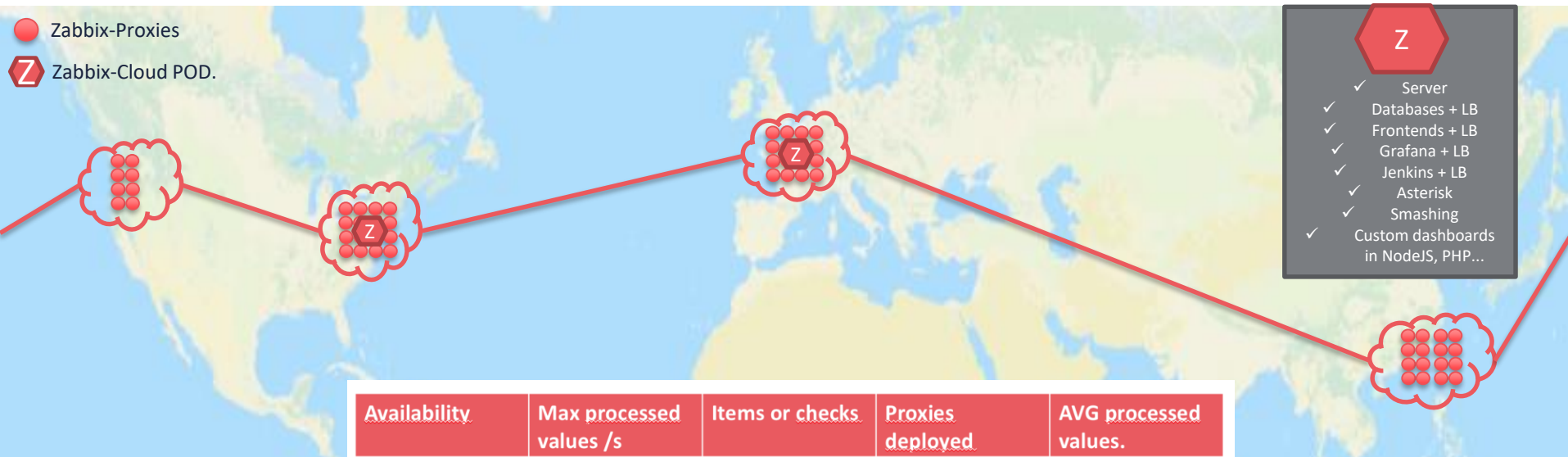
ZABBIX

# Outscale, the Cloud French Touch.

- ◆ Outscale
  - ◆ IaaS Cloud Provider.
  - ◆ Software editor.
  - ◆ Dassault Systemes Group.
  - ◆ Iso27001 / Cisco, Netapp, Nvidia, Intel partner.
  - ◆ Worldwide platforms.
- ◆ The monitoring team:
  - ◆ Is deploying, supporting, improving monitoring tools.
  - ◆ We provide monitoring services to several teams : infrastructure, operation, QA, R&D...



# A few words about our infrastructure.



Z

- ✓ Server
- ✓ Databases + LB
- ✓ Frontends + LB
- ✓ Grafana + LB
- ✓ Jenkins + LB
- ✓ Asterisk
- ✓ Smashing
- ✓ Custom dashboards in NodeJS, PHP...

Availability	Max processed values /s	Items or checks	Proxies deployed	AVG processed values.
100%	100 000.	1 350 000+	100+	7000

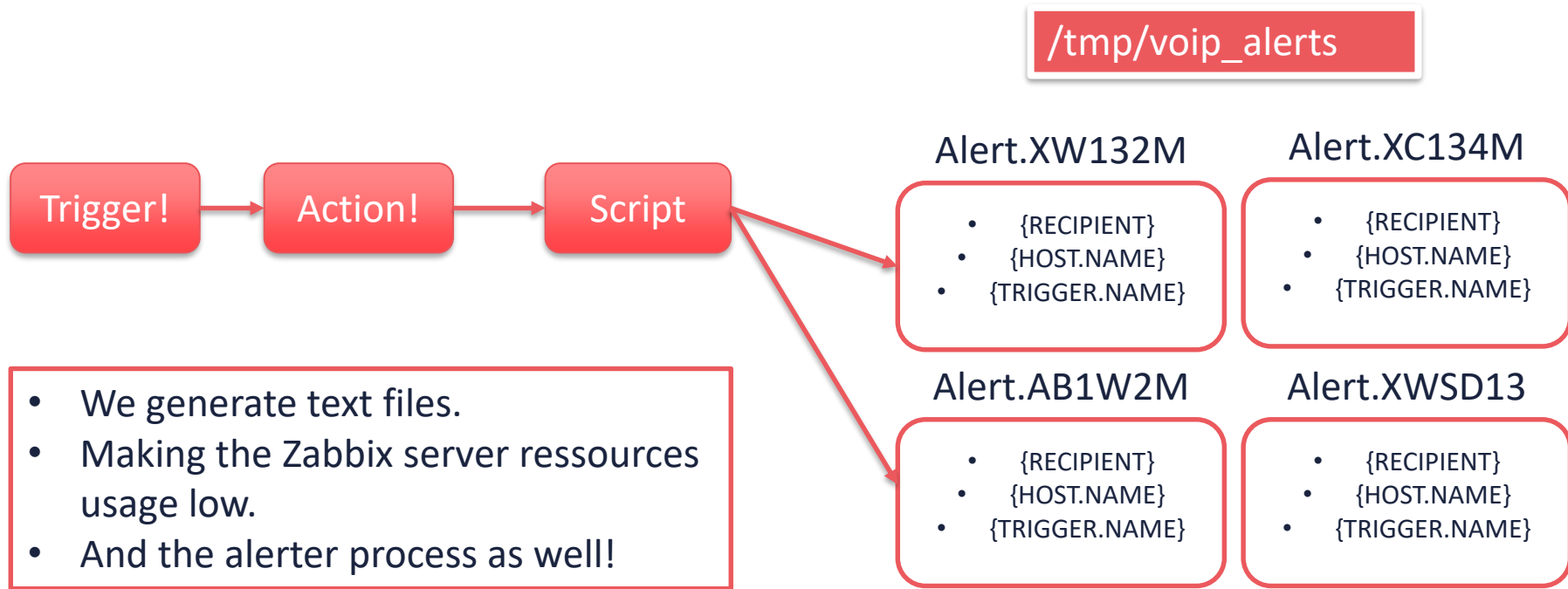
AVG Bandwith on server.	Max tested processed alerts.	Amount of TV using Grafana dashboards.	Charge on the server.	DB size
25 Mbps.	Up to 30k	200+	<u>Around 10% cpu</u>	800 GB.

# Everything to wake up 24/24 7/7.

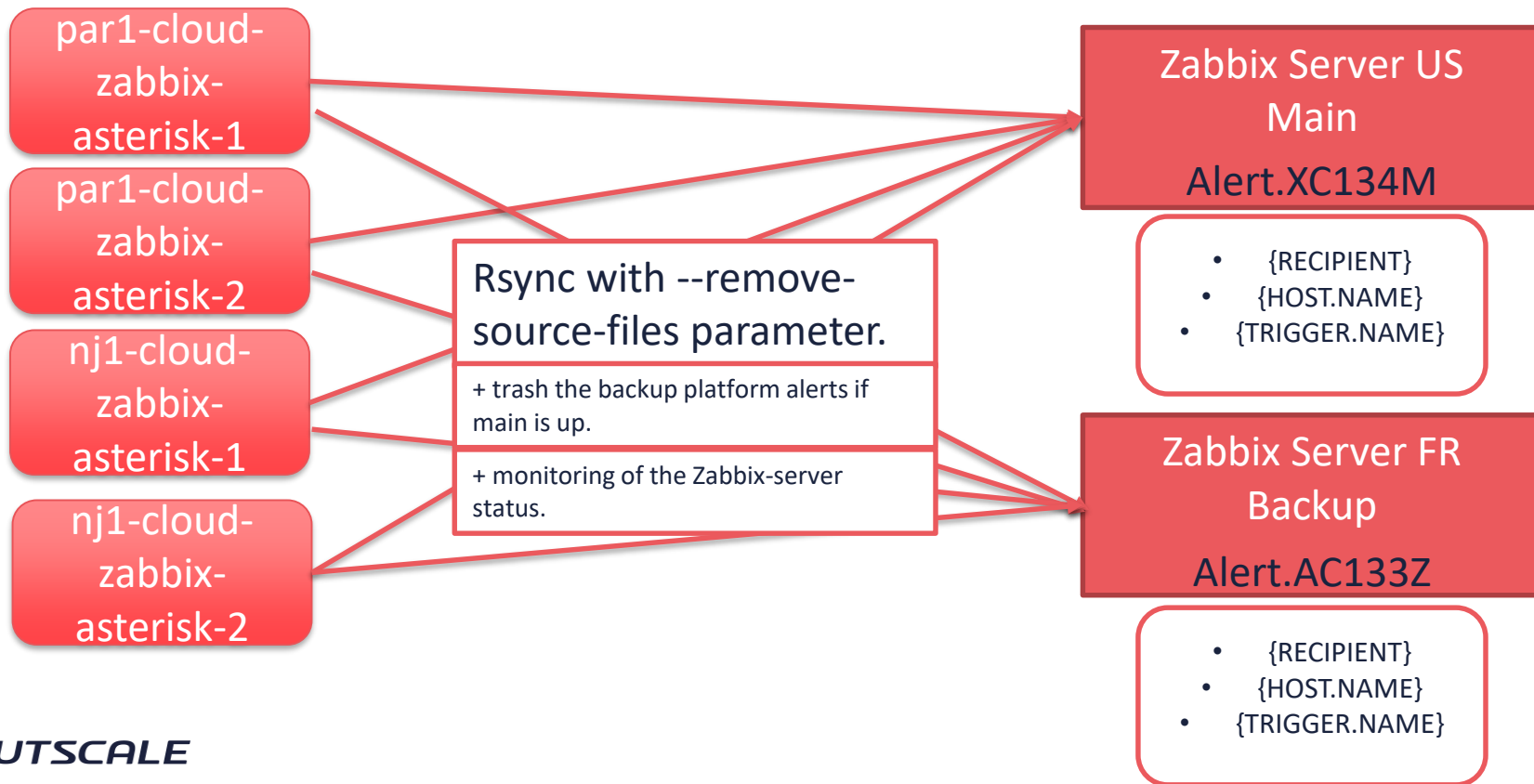
- Zabbix.
- Asterisk.
- Scripts + crontab.
- A SIP Trunk provider account.
- Grafana + Grafana-Zabbix - Optional -
- Jenkins jobs - Optional as well -



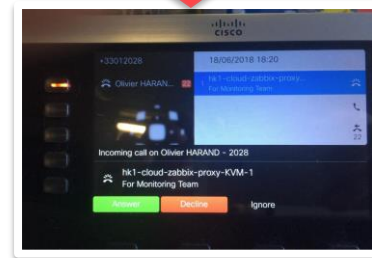
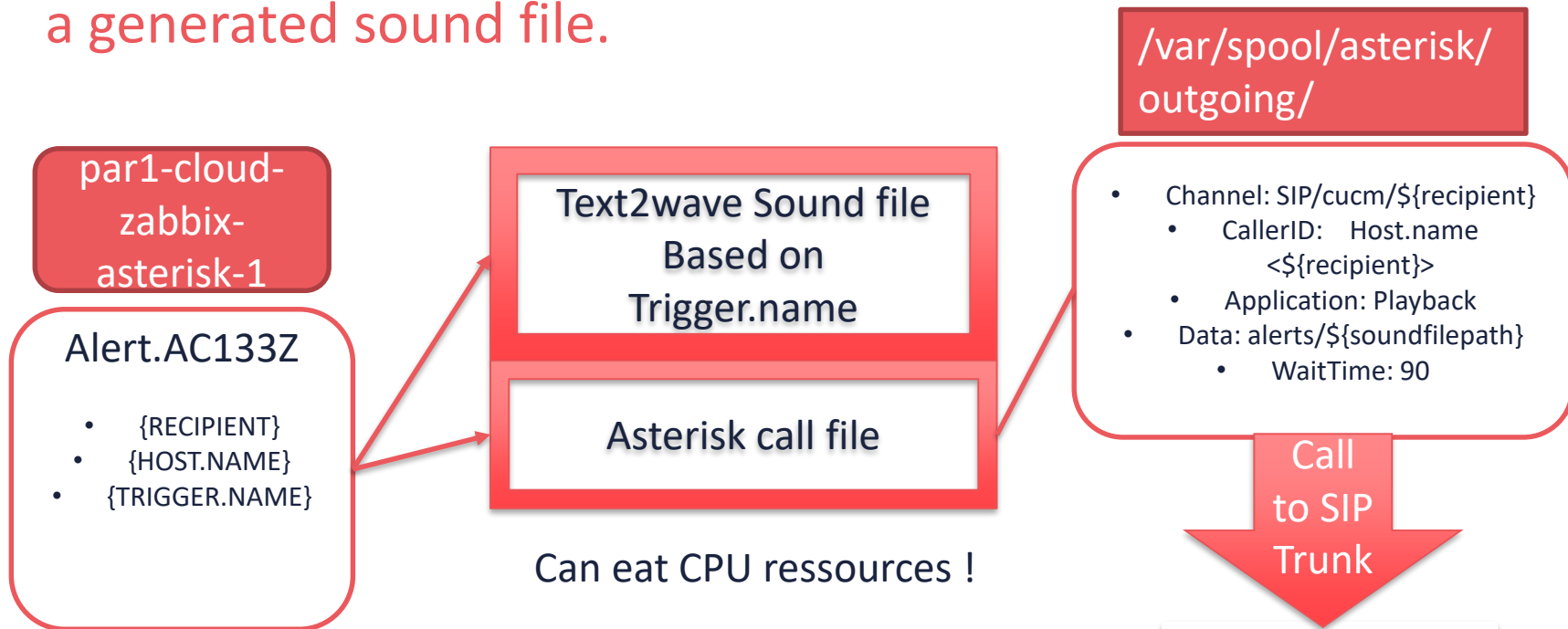
# Step 1: Zabbix-Server producing alert files.



## Step 2: Asterisk instances collecting the alerts..

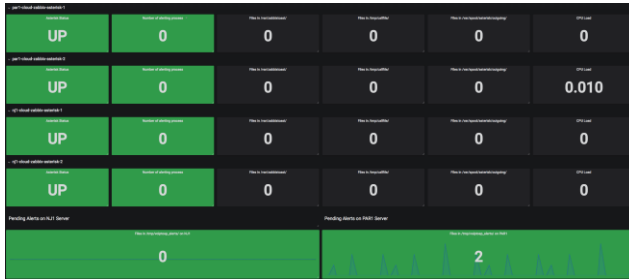


Step 3: For each alert, the Asterisk instance create a call and play a generated sound file.

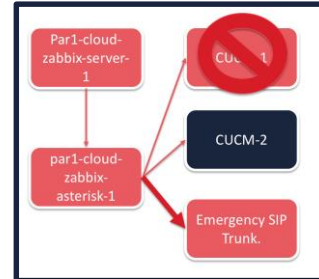




# Step 4: Optional additions.



Real-time dashboard monitoring of the system, on all the way.



Multiple providers for VOIP.

S	W	Name	Last Success	Last Failure	Last Duration
		Global_Clean_Asterisk	21 days - #7	N/A	12 min
		Purge_Asterisk_Call	21 days - #18	5 mo 18 days - #5	12 min
		Purge_Audio_Call	12 hr - #11	N/A	1.1 sec
		Restart_All_Asterisk	21 days - #19	N/A	14 sec
		Stop_Asterisk_Call	22 days - #26	N/A	14 sec

Easy / automated jobs.



ZaBot 15:17

**RECOVERED in1-zabbix-proxy-2**

Zabbix agent on in1-zabbix-proxy-2 is unreachable for 10m

**RECOVERED in1-zabbix-proxy-1**

Zabbix agent on in1-zabbix-proxy-1 is unreachable for 10m

Notification redundancy using the DATA connectivity.



Outscale

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more on

[outscale.com](http://outscale.com)



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