Systematica

ZABBIXUnify
one dashboard to rule them all

Gabriele Armao

ZABBIX 2014 Conference

WHO AM I?

Gabriele Armao

System Administrator at Systematica

Zabbix Certified Trainer
since November 2012

Systematica

Systematica

Zabbix **Premium Partner** and **Trainer**

Zabbix is used for systems and applications monitoring (backup, logfile analysis, …)

Over 150 customers monitored, 10 Zabbix servers, 56 proxies, ~1500 hosts, ~30000 items, ~15000 triggers. ~1000 NVPS, 4.5 GB/day, 600 GB (total db size)

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BEFORE

Zabbix as service
One Zabbix server to monitor all our customers

Many Zabbix
Server deployment

=

Many Zabbix Dashboards

*Difficult for our control room
to provide a monitoring service*

THE NEED

Can't use Zabbix master-slave configuration

Dropped in 2.4
Performance issues

Can't rely only on email notifications

Zabbix dashboard is not enough for our needs

No single point of view in case of many DCs or operation centers
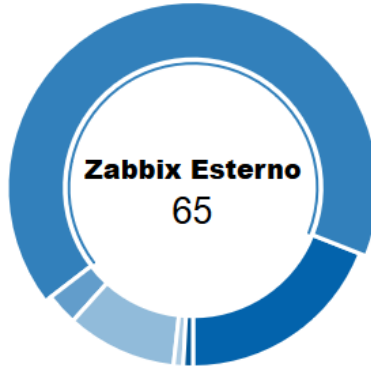No reports

THE PROBLEMS

THE **SOLUTION**

One NEW dashboard
to unify many
(via API)

Centralized view of
Active triggers & Trigger details
(latest data, past events)

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Dashboard

- **🐠 Dashboard**
- **🐠 Panel**
- **▦ Zabbix Server** ‹
- **▦ All Alerts**
- **▦ Reports**
- **⛗ Templates**

Active Trigger per server

Zabbix Esterno
65

[View Details]

Customer Status

Filter ▾

Customer	Hosts with problems	Most recent trigger
	5	last 6:22:04
	3	last 1 day, 6:06:39
	3	last 9:33:42
	2	last 11 days, 1:19:37
	1	last 19 days, 23:49:39
	1	last 25 days, 3:12:30
	1	last 17 days, 23:51:59
	1	last 66 days, 1:37:27
	3	last 6 days, 13:35:35
	1	last 67 days, 18:53:48

Zabbix Esterno	_srvrac01	information	Nessun log Oracle ricevuto da _srvrac01 si consiglia controllo	67d 7h 55m 26s	Yes
Zabbix Esterno	_s-arianova	average	Zabbix agent su _s-arianova irraggiungibile per 10 minuti	101d 23... 26s	(29/05/2014 15:12:56): audit non abilitato a livello di database, è richiesto un riavio dell'istanza Oracle
Zabbix Esterno	_lnxcont	information	Nessun log Oracle ricevuto da _lnxcont si consiglia controllo	130d 1h 20m 56s	Yes
Zabbix	orione	average	Spazio disponibile su C: < 1G - Attuale: 620.4 MB	299d 3h 32m 54s	Yes
Zabbix Esterno	_febo	warning	Zabbix agent su _febo irraggiungibile per 5 minuti	26s	No
Zabbix Esterno	_00SR020	warning	Carico CPU troppo alto su _00SR020: 5.58	1m 18s	No

Central template management

Deploy templates to other Zabbix Servers via XML import/export

Template Management

Master: Zabbix Esterno	Zabbix	Zabbix Interno	Zabbix	Zabbix
Basic Checks	✔	❌ ☁ Sync	❌ ☁ Sync	✔
Backup Control	✔	❌ ☁ Sync	❌ ☁ Sync	✔
RC_Linux Apache checks	✔	❌ ☁ Sync	✔	✔
RC_Linux OpenOffice checks	✔	✔	✔	✔
RC_Linux Pound checks	✔	❌ ☁ Sync	✔	✔
RC_Linux Si4cs checks	✔	✔	✔	✔
RC_Linux Workflow checks	✔	✔	✔	✔
RC_Windows Oracle9ias checks	✔	❌ ☁ Sync	❌ ☁ Sync	✔
Rman_Control	❌ ☁ Sync	❌ ☁ Sync	❌ ☁ Sync	❌ ☁ Sync
RC_Linux Generic checks	❌ ☁ Sync	❌ ☁ Sync	❌ ☁ Sync	❌ ☁ Sync

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Additional features
Custom graphs
Event correlation
Report!

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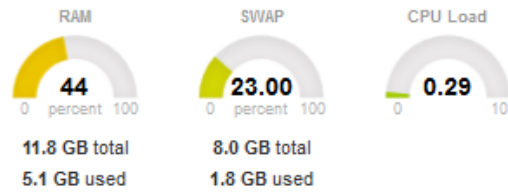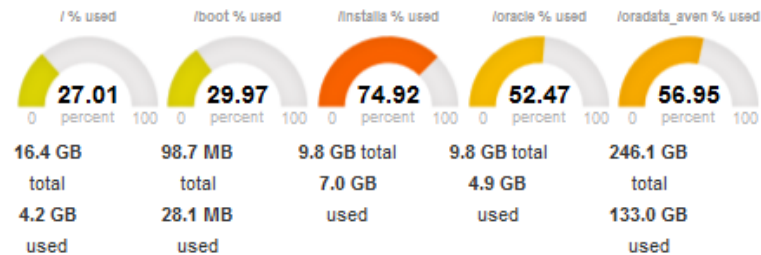
- Dashboard
- Panel
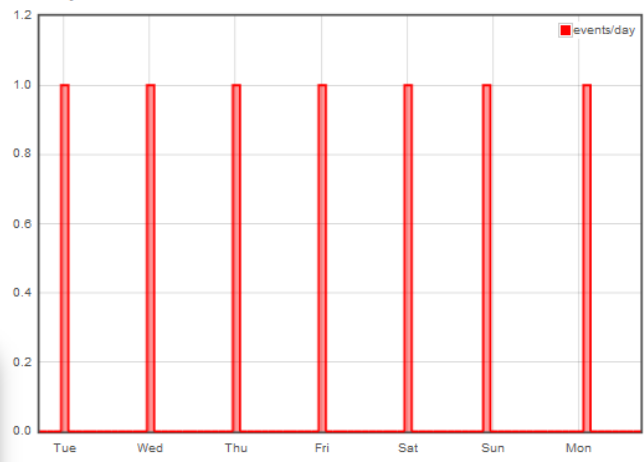- Zabbix Server
- All Alerts
- Reports
- Templates

Trigger Details Spazio libero inferiore al 10% su /oracle/S7ADS/backup: 8.53 % (8.48 GB)

Trigger Info | Latest Data | Events Correlations

Dati

Zabbix Server:
Zabbix Esterno
Host:
_____mercurio
Trigger function:
{_____mercurio:vfs.fs.size[/oracle/S7ADS/backup,pfree].last(0)}
<10&{._____mercurio:vfs.fs.size[/oracle/S7ADS/backup,free].last(0)}<10G
Ultimi valori Items:
Free disk space on $1: 9100413952
Optional Trigger Description:

Weekly event distribution

events/day

Tue Wed Thu Fri Sat Sun Mon

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Customers Panel

4 Trigger last 13:31:44	3 Trigger last 1 day, 6:13:03	3 Trigger last 9:40:06
1 Trigger last 17 days, 23:58:23	1 Trigger last 66 days, 1:43:51	3 Trigger last 6 days, 13:41:59
3 Trigger last 0:03:12	1 Trigger last 1 day, 6:13:03	1 Trigger last 1 day, 6:13:03
3 Trigger last 2:30:03	1 Trigger last 2:39:04	1 Trigger last 13 days, 2:08:23
4 Trigger last 10:16:37	1 Trigger last 37 days, 6:21:42	2 Trigger last 1 day, 6:13:03
1 Trigger last 0:30:07	2 Trigger last 25 days, 2:39:03	

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Frameworks

Backend / Python (Pyramid)

Frontend / Twitter Bootstrap (SB Admin v2.0)
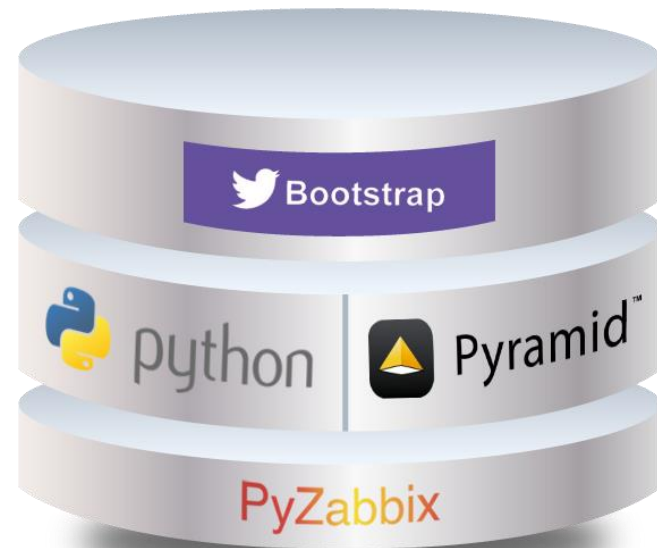
State of the art

Internal development: finished and in production

Public release: to be defined (Jan 2015)

Future improvements

Centralized configuration management

Add/Remove hosts

Add/Remove template association

Customer interface

Thank you!

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