

# How to get most out of Zabbix problems

- Microphones are muted
- Ask your questions in Q&A, not in the chat



Opensource ICT Solutions



# Laura Schilder

Zabbix Consultant



#### Your Zabbix partner in:

- The Netherlands
- United Kingdom
- United States



Windows by Zabbix agent: System time is ou t of sync

fuzzytime(/Windows client/system.localtime,{\$SYSTEM.FUZZYTIME.MAX})=0

# • What is an trigger?

Parent triggers	Windows by Zabbix a	gent			
* Name	Zabbix agent is not a	available			
Event name	Zabbix agent is not a	available (for {\$AGENT.T	'IMEOUT})		
Operational data					
Severity	Not classified In	nformation Warning	Average High	Disaster	
* Expression	max(/Windows cl {\$AGENT.TIMEOUT	ient/zabbix[host,a })=0	gent,available],		
	Expression constructo	or			



28 November 2022

Event name

#### A problem arises, now what?

- Identify the problem
- What is the problem about?
- Do you know what to do now?





- Trigger > problem state
- Indicating something(bad) that might need our attention
- Can be informational

Time 🔻	Severity	Recovery time Status	Info	Host	Problem	Duration	Ack Actions	Tags
14:13:00	Average	PROBLEM		Windows client	\\192.168.1.74\public\test1356.txt: Is older than 15 minutes	1h 20m 50s	No	class: service component: storage scope: notice
14:00 (								
11:45:00	Average	PROBLEM		Windows client	\\192.168.1.74\public\test: Is older than 15 minutes	3h 48m 50s	No	class: service component: storage scope: notice
Today 🤇								
022-11-14 12:55:29	Average	PROBLEM		Windows client	This file has been around for more then 15 minutes	8d 2h 38m	No	class: service component: storage scope: notice
022-11-14 12:55:29	Average	PROBLEM		Windows client	This file has been around for more then 15 minutes	8d 2h 38m	No	class: service component: storage scope: notice
022-11-14 12:55:29	Average	PROBLEM		Windows client	This file has been around for more then 15 minutes	8d 2h 38m	No	class: service component: storage scope: notice
022-11-14 12:55:29	Average	PROBLEM		Windows client	This file has been around for more then 15 minutes	8d 2h 38m	No	class: service component: storage scope: notice
022-11-14 12:55:00	Average	PROBLEM		Windows client	\\192.168.1.74\public\file1158: Is older than 15 minutes	8d 2h 38m	No	class: service component: storage scope: notice



#### How to alert about them?

- What are the options?
- Global notifications
- Send messages
- Create tickets
- Execute remote commands

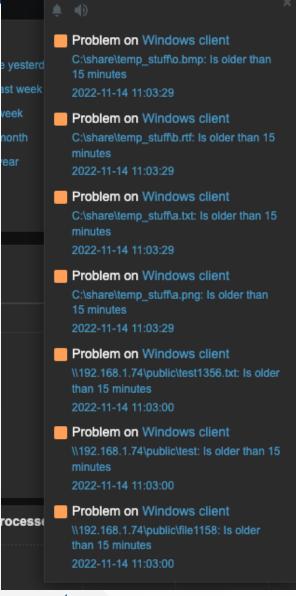




#### **Global notifications**

- What are they?
- Can be displayed everywhere in Zabbix
- Move
- Mute
- Snooze

Media Messaging •						
Frontend messaging						
Message timeout	60					
Play sound	Once	×				
Trigger severity	Recovery	alarm_ok	~	Play	Stop	
	Not classified	no_sound	~	Play	Stop	
	Information	alarm_information	~	Play	Stop	
	Varning	no_sound	~	Play	Stop	
	Verage	no_sound	~	Play	Stop	
	High	alarm_high	~	Play	Stop	
	Disaster	alarm_disaster	~	Play	Stop	
Show suppressed problems						
	Update C	ancel				





### Media types/ Send messages

#### Administration -> Media types

• Email

• Sms

Webhook

Script

Ме	dia types				
				Name	Status Any Enabled Disabled
					Apply Reset
					Details
	Brevis.one	Webhook	Enabled		
	Discord	Webhook	Enabled		
		Email	Enabled		SMTP server: "mail.example.com", SMTP helo: "example.com", SMTP email: "zabbix@example.com"
	Email (HTML)	Email	Enabled		SMTP server: "mail.example.com", SMTP helo: "example.com", SMTP email: "zabbix@example.com"
	Express.ms	Webhook	Enabled		
		Webhook	Enabled		
	GLPi	Webhook	Enabled		
	iLert	Webhook	Enabled		
		Webhook	Enabled		
		Webhook	Enabled		
	Jira ServiceDesk	Webhook	Enabled		



#### User media/Send mesagges

- How?
- Via what?
- Wich day/time do you prefer?

Media		
Туре	Email ~	
* Send to	me@shomwhere.com	Remove
	Add	
* When active	1-5,06:00-09:00;1-5,18:00-20:00	
Use if severity	V Not classified	
	Information	
	Warning	
	V Average	
	✓ High	
	✓ Disaster	
Enabled		
	Add	Cancel



- Why get an message if you can get a ticket?
- What?
- Choose which ticketing software you like
- Escalation

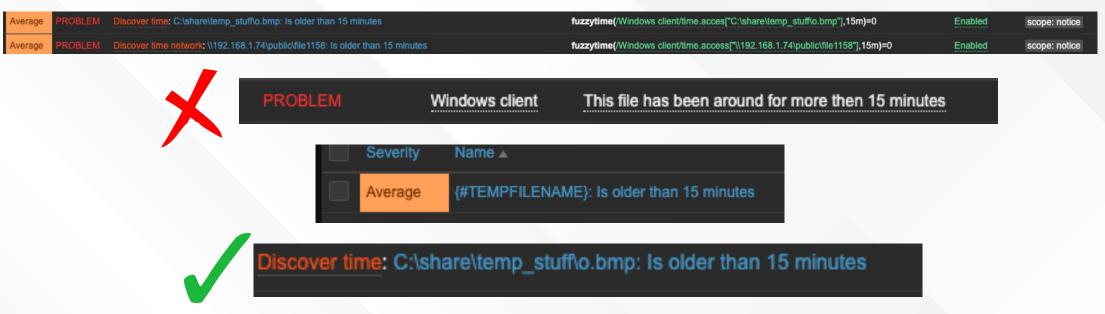


- What is this problem?
- Naming
- Tagging
- Dashboard/widgets
- Frontend filters





- Keep it simpel and understandable
- Don't make them to long
- Macro's







- Use scope
- Need more information?

https://blog.zabbix.com/tags-in-zabbix-6-0-lts-usage-subfilters-and-guidelines/19565/

nfo Tags

scope: availability scope: capacity

scope: availability scope: capacity

scope: capacity scope: performance

scope: capacity scope: performance

scope: availability scope: capacity

scope: availability scope: capacity

scope: capacity scope: performance

scope: capacity scope: performance

scope: security

**Opensource ICT Solutions** 

- What do you see?
- Is this practical?

System information Parameter Zabbix server is running	Value Details Yes Iocalhost:10051	Server	2022-11-22 16:27:41	Linux server 1.2 %	СРИ
Number of hosts (enabled/disabled)	11 11 / 0		Amsterdam	0.8 %	
Number of templates Number of items (enabled/disabled/not supported)	311 1609 1532 / 0 / 77	Host availability		0.6 %	
Number of triggers (enabled/disabled [problem/ok])	812 812 / 0 [2 / 810]	Available		SNMP 5 0.4 %	
Number of users (online) Required server performance, new values per second	3 1 14.25	Not available	0	0 0.2 %	
High availability cluster	Disabled	Unknown		0 0 %	14:36 11-22 14:54 11-22 15:12
		Total	5		Rocky Linu Rocky Linu Rocky Linu
Problems					
0 Disaster	0 High	2 Average	0 Warning	0 Information	0 Not classified
All problems			Host problems		
·	ost Problem • Severity	Duration Ack Actions			With problems Total
2022-11-19 11:01:47 PROBLEM W	ind "edgeupdate" (Microsoft Edg vs Update Service (edgeupdate		Linux servers	2	2
P	not running (startup type automatic delayed)		Network aquiment	5	5
2022-11-16 12:03:42 • PROBLEM W	ind "edgeupdate" (Microsoft Edg	e 6d 3h 23m No			2 of 2
OV			Zabbix servers		1
	automatic delayed)		All Maps		
					2
					2
			Cisco stack		



### Frontend filters

- Options
- Named filter
- Main filters
- Sub filters

< T	meetup	client								$\sim$ >
		Host groups	type here to search	Select	Tags	And/Or Or				
		Hosts	type here to search	Select		tag	Contains	✓ value	Remove	
						Add				
		Name			Show tags	None 1 2 3	Tag name Full	Shortened None		
								Shohened None		
					Tag display priority	comma-separated list				
					Show details					
					Save as Apply	Reset				
Subfilter af		ltered data								
HOSTS Windows clie	nt 112 Zabb	ix server 125								
TAGS component 2	37 descriptio	on 9 disk 16 file	esystem 11 interface 18 name 51 service 51							
component:	application	2 cpu 25 data-c	collector 13 environment 1 internal-process 20 memory	19 netwo	ork 18 os 6 raw 3 security 1	storage 43 system 93				
description:	Ethernet0 9									
disk:	0 C: 8 sda									
filesystem:	/ 4 /boot 4									
interface: name:	Background DHCP Clien Network Loo System Eve VMware Alia	Tasks Infrastruct I Tasks Infrastruct It I Diagnostic P cation Awareness Int Notification Se as Manager and T	igabit Network Connection 9 ture Service 1 Base Filtering Engine 1 COM+ Event Sy Policy Service 1 Display Policy Service 1 Distributed Lin 1 Network Store Interface Service 1 Power 1 Print Sp ervice 1 System Events Broker 1 System Guard Runtim Ticket Service 1 VMware SVGA Helper Service 1 VMwa e 1 Windows Management Instrumentation 1 Windows	k Tracking looler 1 R e Monitor E lire Tools 1	Client 1 DNS Client 1 IP He emote Procedure Call (RPC) Broker 1 Task Scheduler 1 T Windows Audio 1 Windows	Iper 1 Local Session Mana; RPC Endpoint Mapper 1 hemes 1 Update Orchestra Audio Endpoint Builder 1 W	ger 1 Microsoft Defen Security Accounts Ma tor Service 1 User Ma Vindows Connection M	Ider Antivirus Service 1 Micros Inager 1 Security Center 1 S anager 1 User Profile Service Ianager 1 Windows Defender	soft Edge Update Service (edge erver 1 Storage Service 1 Sys 1	sMain 1
service:	EventSyster	SystemEventsBr	Ilosrv 1 BFE 1 BrokerInfrastructure 1 CoreMessaging 1 iphipsvc 1 LanmanServer 1 LanmanWorkstation 1 oker 1 Themes 1 TrkWks 1 UserManager 1 UsoSvc	LSM 1 mp	ssvc 1 NlaSvc 1 nsi 1 Pow	ver 1 ProfSvc 1 RpcEptMa	pper 1 RpcSs 1 San	mSs 1 Schedule 1 SENS 1	vc 1 edgeupdate 1 EventLog SgrmBroker 1 Spooler 1 Stort earch 1 Zabbix Agent 1	
DATA With data M	/ithout data									

**Opensource ICT Solutions** 

- How?
- Frontend scripts
- Urls
- Historical data



- What are they?
- What types can you use?
- How can you use them?

Name 🔺	Interface
meetup h*	407.0.0.4.40050
Mindaus	HOST
Windows	Inventory
Zabbix se	Latest data
	Problems
	Graphs
	Dashboards
	Web
	Configuration
	SCRIPTS
	Detect operating system
	Ping
	Traceroute



#### Trigger URLs

- Why would you use them?
- **How** would you use them?

PROBLEM	Windows client	C:\share\temp_stuff\a.png: Is older than 15	minutes	34s		
PROBLEM	Windows client 5.2	Zabbix agent is not available (for 3m)	TRIGGER Problems Configuration			
			LINKS Trigger URL			
			HISTORY C:\share\temp_st	tuff\a.png: Tir	me access	

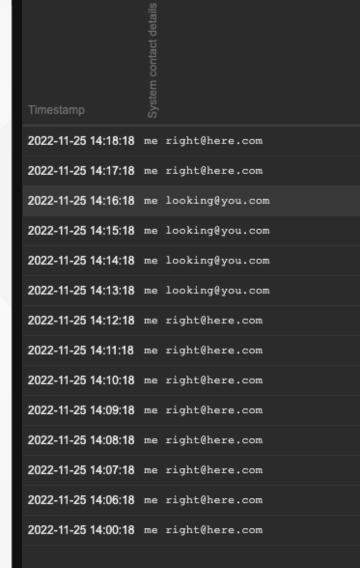
Allow manual close	
URL	http://192.168.1.74/zabbix.php?action=dashboard.view&dashboardid=1
Description	
Allow manual close	
URL	/zabbix.php?action=dashboard.view
Description	

Allow manual clos	e 🗌
UR	/zabbix.php?action=map.view&sysmapid=1
Allow manual close	
URL	/zabbix.php?action=map.view&sysmapname=Local



#### Historical data

- How would you utilize this?
- Predictions
- More info about Predictions? <u>https://support.zabbix.com/browse/ZBX-19043</u>
- Certain triggers
- Keep the history





- Is there more?
- What do I find handy?



#### Lets see if there are any questions in Q&A

