Zabbix trigger with Unix time

https://www.zabbix.com/documentation/3.4/manual/appendix/triggers/functions

fuzzytime (sec)									
Checking how much an item timestamp value differs from the Zabbix server time.	sec - seconds	Supported value types: float, int Returns: 0 - if difference between item timestamp value and Zabbix server timestamp is over T seconds 1 - otherwise. Usually used with system.localtime to check that local time is in sync with local time of Zabbix server. Can be used also with vfs.file.time[/path/file,modify] key to check that file didn't get updates for long time. Example: ⇒ fuzzytime(60)=0 → detect a problem if time difference is over 60 seconds							

Realtime, sent data with Python.

Unix_time is the unix time and py_time is the "Readable" converted unixtime.

Here the last value is the same as py_time.

▼ 🛄 Name ▼	2017-10-03 22:14:26.201161	Last check	Last value	Change
- other - (6 Items)	1507061666.0 Sent packets success			
unix_time	End	2017-10-03 22:14:26	1507061666	
tag_status	(zab) C:\Users\espen\virtualEnvs\zab\app>	2017-10-03 21:51:20	fail	
🔲 tag3		2017-10-03 21:51:20	3000	
🔲 tag2		2017-10-03 21:51:20	5000	
🔲 tag1		2017-10-03 21:51:20	3000	
py_time		2017-10-03 22:14:26	2017-10-03 22:14:26.201161	

▼ 🔲 Name ▼	<pre>(Zab) C:\Users\espen\virtualEnvs\zab\app>python test_fuzzy_time.py 2017-10-03 22:15:00.656732</pre>	Last check	Last value	Change
- other - (6 Items)	1507061700.0 Sent packets success			
unix_time	End	2017-10-03 22:15:00	1507061700	+34
tag_status	(zab) C:\Users\espen\virtualEnvs\zab\app>∨	2017-10-03 21:51:20	fail	
🔲 tag3		2017-10-03 21:51:20	3000	
🔲 tag2		2017-10-03 21:51:20	5000	
🔲 tag1		2017-10-03 21:51:20	3000	
py_time		2017-10-03 22:15:00	2017-10-03 22:15:00.656732	

Dashboard, has no alarm for the Unix late data trigger

		- ()			_				 Host gro
age, % free	Required serve	r performance,	new values per	second	1.21				Template
ering process busy %									· · ·
rocess busy %									Zabbix s
rformance	Last 20 issu	es							
								Actio	
Graphs	Zabbix server	Test trigger	2017-05-02 23	3:34:19	5m 3d 22h				
	Web monitor	ring							
creens Slide shows	Host group		Ok	Failed	U	nknowr	ı		

Now sent data with old time, to breach the alarm

Here the last value is later then the py_time.

▼ 🗍 Name ▼	<pre>(zab) C:\Users\espen\virtualEnvs\zab\app>python test_fuzzy_time.py 2017-10-03 22:16:34.642541</pre>				
 other - (6 Items) 	1507061701.0 Sent packets success				
unix_time	End		2017-10-03 22:16:34	1507061701	
tag_status	(zab) C:\Users\espen\virtualEnvs\zab\app>	~	2017-10-03 21:51:20	fail	
🔲 tag3			2017-10-03 21:51:20	3000	
🔲 tag2			2017-10-03 21:51:20	5000	
🔲 tag1			2017-10-03 21:51:20	3000	
py_time			2017-10-03 22:16:34	2017-10-03 22:15:01	
Colocted Display stacked graph Displ	warab				
▼	<pre>(zab) C:\Users\espen\virtualEnvs\zab\app>python test_fuzzy_time.py 2017-10-03 22:17:11.163575</pre>				

Vame V	2017-10-03 22:17:11.163575 1507061701.0 Sent packets success End	Last check		Change
- other - (6 ltems)				
unix_time		2017-10-03 22:17:11	1507061701	
tag_status	(zab) C:\Users\espen\virtualEnvs\zab\app>	2017-10-03 21:51:20	fail	
🔲 tag3		2017-10-03 21:51:20	3000	
tag2		2017-10-03 21:51:20	5000	
🔲 tag1		2017-10-03 21:51:20	3000	
py_time		2017-10-03 22:17:11	2017-10-03 22:15:01	

Dashboard, with alarm

								Те
s busy %					Up		22:17:36	
96								Zá
	Last 20 issu	es						
	Host		Last change	Age		Ack	Actions	
Graphs	kohma	late_unix_time	2017-10-03 22:16:34	1m 3s		No		
	Zabbix server	Test trigger	2017-05-02 23:34:19	5m 3d 22h		No		
				issues are shov	vn Up		22:17:37	

Trigger

			Apply
High	late_unix_time	{ <u>kohma:unix_time</u> .fuzzytime(60)}=	0
High	test_nodata	{ <u>kohma:tag3</u> . nodata(1m) }=1	