EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Items

REVISION HISTORY					
Ver.	**Description of Change**	**Author**	**Date**	**Approved**	
				Name	**Effective Date**
1.0	Initial Version	Siarhei Beliakou	23/May/2017		

Task. Items

Task:

Assuming we have 2 servers (VMs) – ZabbixServer and Tomcat,
Configure:

1.Create item and develop custom trigger for log monitoring (you can use httpd or tomcat logs)

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

zagent: Logging Tomcat

View as Values ▼   As plain text ⤢

◄ Zoom out ►   Last 1 hour ⏱ Filter ▼

From now-1h ▦
To now ▦

Apply

Last 2 days	Yesterday	Today	Last 5 minutes
Last 7 days	Day before yesterday	Today so far	Last 15 minutes
Last 30 days	This day last week	This week	Last 30 minutes
Last 3 months	Previous week	This week so far	Last 1 hour
Last 6 months	Previous month	This month	Last 3 hours
Last 1 year	Previous year	This month so far	Last 6 hours
Last 2 years		This year	Last 12 hours
		This year so far	Last 1 day

Timestamp	Local time	Value
2019-10-21 15:51:00		21-Oct-2019 12:50:57.740 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/tomcat/webapps/manager]
2019-10-21 15:51:00		21-Oct-2019 12:50:57.717 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/tomcat/webapps/host-manager]
2019-10-21 15:51:00		21-Oct-2019 12:50:57.529 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/tomcat/webapps/examples]
2019-10-21 15:51:00		21-Oct-2019 12:50:57.514 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/tomcat/webapps/docs]
2019-10-21 15:51:00		21-Oct-2019 12:50:57.261 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/tomcat/webapps/ROOT]

2.Create a trigger for errors in log file monitored by that item

ZABBIX Monitoring Inventory Reports Configuration Administration   🔍 🎧 Support Z Share ? 👤 ⏻

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Global view

Edit dashboard ☰ ⤢

All dashboards / Global view

System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	85	2 / 0 / 83
Number of items (enabled/disabled/not supported)	125	119 / 0 / 6
Number of triggers (enabled/disabled [problem/ok])	66	66 / 0 [0 / 66]
Number of users (online)	2	1
Required server performance, new values per second	2.66	

Problems by severity

Host group ▲	Disaster	High	Average	Warning	Information	Not classified
Virtual machines		1				

Local

Problems

Time ▼	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
15:55:29		zagent	Deploying	6s	No		

Time ▼	Recovery time	Status	Duration	Ack	Tags
15:55:29		PROBLEM	6s	No	

Favourite maps

No maps added.

1. **Simple checks:**
   - Zabbix Server WEB availability (80)
   - Zabbix DB is available (3306)
   - Tomcat availability (80, 8080)
   - Tomcat Server is available by ssh (22)
2. **Calculated Checks:**

- CPU Load per Core (1, 5, 15min)
3. Internal Checks:
    - How many items are enabled
    - How many Servers are being monitored

Create triggers for every check

00:50:43		zagent	Web availability 8080	26s	No

Global view

All dashboards / Global view
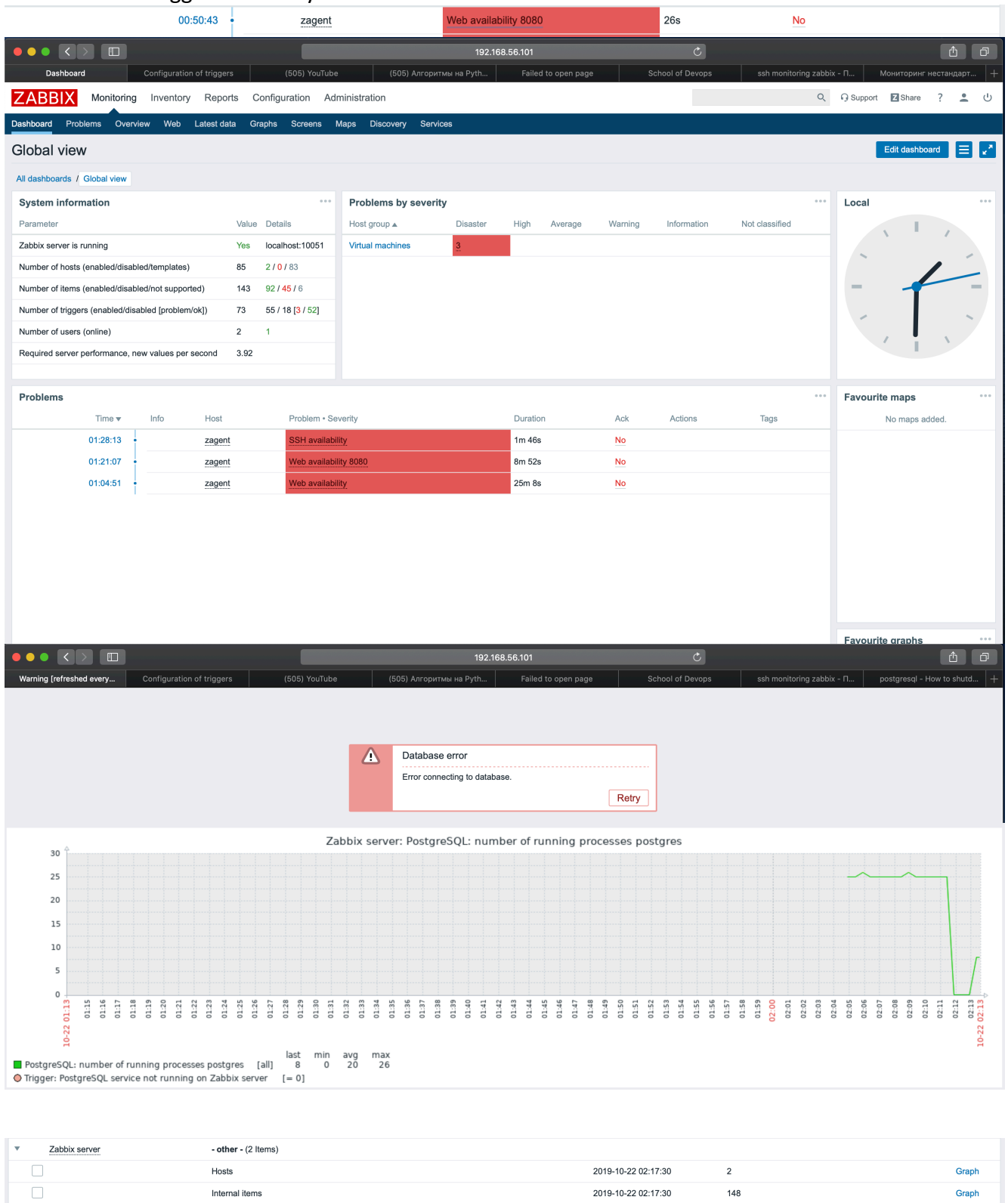
System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	85	2 / 0 / 83
Number of items (enabled/disabled/not supported)	143	92 / 45 / 6
Number of triggers (enabled/disabled [problem/ok])	73	55 / 18 [3 / 52]
Number of users (online)	2	1
Required server performance, new values per second	3.92	

Problems by severity

Host group ▲	Disaster	High	Average	Warning	Information	Not classified
Virtual machines	3					

Local

Problems

Time ▼	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
01:28:13		zagent	SSH availability	1m 46s	No		
01:21:07		zagent	Web availability 8080	8m 52s	No		
01:04:51		zagent	Web availability	25m 8s	No		

Favourite maps

No maps added.

Favourite graphs

Database error

Error connecting to database.

Retry

Zabbix server: PostgreSQL: number of running processes postgres

	last	min	avg	max
■ PostgreSQL: number of running processes postgres [all]	8	0	20	26
● Trigger: PostgreSQL service not running on Zabbix server [= 0]				

▼	Zabbix server	- other - (2 Items)			
☐		Hosts	2019-10-22 02:17:30	2	Graph
☐		Internal items	2019-10-22 02:17:30	148	Graph

☐	Processor load (1 min average per core)	2019-10-22 02:17:16	0.03	+0.02	Graph
☐	Processor load (5 min average per core)	2019-10-22 02:17:17	0.03	+0.005	Graph
☐	Processor load (15 min average per core)	2019-10-22 02:17:15	0.04		Graph