Browser monitoring workshop



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ZABBIX

SUMMIT



There are three key elements (information boxes) in the workshop slides:

- Linux virtual machine CLI (command-line interface)
 - You need to enter the commands specified here in your Linux SSH terminal or using the web interface http://student-XX-zbxtr-YYYY.zabbix.training:9090, without the # symbol:

systemctl enable zabbix-server --now

Text on the screen after a command execution (output may differ slightly)

Created symlink /etc/systemd/system/multi-user.target.wants/zabbix-server.service

Linux editor screen – here, change the specified parameters to get required functionality

Option: DBPassword # Database password. # Comment this line if no password is used. DBPassword=P455w0RD



Browser monitoring



Browser monitoring or Browser Synthetic Monitoring

A way to constantly checks website or application performance by simulating user actions, ensuring the production site runs smoothly regardless of user activity.

Early issue detection during development or in a live environment

- Simulates user interactions with scripted tests
- Ensures a proactive check on application health
- Long-term and relevant health statistics
- Constant quality control

Types of browser monitoring

Single-URL Monitors

• Simulate a user visiting a specific URL and provide information such as availability and performance metrics.

Browser Clickpaths

 Simulated user navigation through a site, automatically testing availability and performance at scheduled intervals. This approach can be used to detect and report UI bugs or unexpected functionality.

Mobile Simulation

 Simulates mobile interactions to assess the availability and performance of mobile versions of websites.

HTTP(S) monitors

• Simple HTTP requests. You can use them to monitor the availability of your API endpoints or perform simple HTTP checks for single-resource availability





Website monitoring setup



There are several components required for browser monitoring:

- Zabbix server or proxy 7.0
- WebDriver
- Headless web browser





The most convinient way, to get the webdrivers is to use containers:

▶ To install the containers, login via SSH and execute this command on you VM

podman run --name webdriver -d \
-p 4444:4444 \
-p 7900:7900 \
--shm-size="2g" \
--restart=always -d docker.io/selenium/standalone-chrome:latest

Check if the container is now running

podman ps

e4e... docker.io/selenium/standalone-chrome:latest :4444->4444/tcp, :7900->7900/tcp, 4444/tcp, 5900/tcp webdriver

The installed container includes:

- Latest version of Standalone Chrome (for Browser item type)
- Novice (to inspect visually container activity with browser)





- Open the address <u>http://<your-ip-address>:7900</u> using browser
- Check that noVNC page is accesible







- After pressing connect, there will be a prompt for password
- Password is "secret"
- After entering password, press Send Credentials
- You will see the Selenium Grid
- This can be later used to confirm browser behaviour

Cre	dentials		
Pass	word:		
	Send Credentials		



Selenium Grid





- Now edit the Zabbix server configuration file /etc/zabbix/zabbix_server.conf
 - change as shown below

```
# nano /etc/zabbix/zabbix_server.conf
```

```
### Option: WebDriverURL
# WebDriver interface HTTP[S] URL. For example http://localhost:4444 used with
# Selenium WebDriver standalone server.
#
# WebDriverURL=
WebDriverURL=http://localhost:4444
#### Option: StartBrowserPollers
# Number of pre-forked instances of browser item pollers.
#
# Range: 0-1000
# StartBrowserPollers=1
StartBrowserPollers=5
```

Save the changes and restart Zabbix server to apply them

systemctl restart zabbix-server

Now we can use Browser items





Browser item



In Zabbix 7.0, a new item type is introduced: Browser

- Based on JavaScript
- Supports the browser class
- Support various new methods to work with pages

New item				
Item Tags Preprocessing	g			
* Name	Zabbix website			
Туре	Browser ~	•		
* Key	website.get.data			Select
Type of information	Text 🗸			
Parameters	Name	Value	Action	
			Remove	
	Add			
* Script	var browser = new Br	owser(Browser.chromeOptic	ons()); 🗡	
* Update interval	1m			



뗶

The browser item can take screenshots of the monitored pages:

Item				
Item Tags 1 P	reprocessing 1			
* Name	Website {\$WEBSITE.DOMAIN} Screenshot			
Туре	Dependent item			
* Key	website.screenshot	Select		
Type of information	Binary ~			
* Master item	Website by Browser: Website {\$WEBSITE.DOMAIN} Get data ×	Select		
* History	Do not store Store up to 31d			
Description	Website {\$WEBSITE.DOMAIN} screenshot.	0		
Enabled				
			Update	Clone

- To take a screenshot of the page use the getScreenshot() method
- Screenshot is included in the JSON object in base64 format
- It is extracted into a binary dependent item
- Can be viewed on the dashboards or sent via media type

ZABBIX



Screenshot size: up to 8K.

- Default screenshot size 1920x1080px.
- Screenshot can be displayed using the "Item history" widget.
- Screenshot size is specified by the setScreenSize(x,y) method.

		zabbix.com	
		ZABBIX	Ξ
Timestamp	Screenshot	The most impo Zabbix event)24 is almost	rtant of here!
2024-05-22 01:46:28 PM		us in Riga on October 3-5 it 2024! You can expect pr kshops, networking, and a lather and learn from each	for Zabbix resentations chance to other.
2024-05-22 01:44:28 PM		Register Now!	
2024-05-22 01:43:26 PM		See Agenda	
2024-05-22 01:42:28 PM		p companies trust	Zabbix
2024-05-22 01:41:28 PM			EAT orange
		Monitor anythi	ng
		Get a single pane of glass view o IT infrastructure stac	f your whol k

BROWSER OBJECTS AND METHODS



Browser object - manages WebDriver session through out the whole item execution.

(initialize session => execute all actions in script => close session).
 Element - an element that is found on the opened webpage.
 Cookie - a cookie returned by the *getCookies()* method.
 Alert - a webpage alert returned by the *getAlert()* method.

Result - represents the collected statistics data gathered by **getResult()** method. Contains the following:

- Session statistics (in example total session duration)
- Error information (if such occurred)
- Performance data (if such collected)
- Any collected data that is written directly to the result object

Browser object methods:

Retrieving predefined browser options	chromeOptions() firefoxOptions() edgeOptions() safariOptions()	Error related operations	getError() setError(message) discardError()
Timeout management	setScriptTimeout(timeout) setSessionTimeout(timeout) setElementWaitTimeout(timeout)	URL and page related operations	navigate(url) getUrl() getPageSource() getAlert() getCookies() addCookie(cookie)
Collecting data	collectPerfEntries(mark) getRawPerfEntries() getResult() getScreenshot()	Locating elements on page	findElement(strategy, selector) findElements(strategy, selector)

Element object methods:

getAttribute(name)	Return the value of the given attribute of the object, for example: class, id, style, display e.t.c.	click()	Click on element.
getProperty(name)	Return the value of the given property of the object, for example: className, baseURIe.t.c.	sendKeys(keys)	Send keys to element. Method is used for filling data into editable elements.
getText()	Return element text.	clear()	Remove the content of editable element

Browser Monitoring Objects and Methods



Out-of-the-box approach

- Open Zabbix user interface in your web browser
 - Address: http://<your-ip-address>/zabbix
 - Login: Admin
 - Password: zabbix (you should change the password, but don't lose it)
 - Press 'Sign in'

	ZABBIX	
Use the default administrator	Username	
login: Admin	Admin	
	Password	
	<	Use the default
	✓ Remember me for 30 days	password for Admin: zabbix
Press Sign in	Sign in	

Theory 禪

PRACTICAL TASK

ZABBIX

Create a new host:

- Name:
- Templates
- Host groups:

Summit agenda page Website by Browser Summit pages (new)

Host		
Host IPMI Tag	gs Macros 3 Inventory Encryption Value mapping	
* Host name	Summit agenda page	
Visible name	Summit agenda page	
Templates	Name Action	
	Website by Browser Unlink Unlink and clear	
	type here to search	Select
* Host groups	Summit pages ×	Select
	type here to search	
Interfaces	No interfaces are defined.	
	Add	
Description		
Monitored by	Server Proxy Proxy group	
Enabled	\checkmark	

Adjust user macros ('Inherited and host macros'):

- {\$WEBSITE.DOMAIN} zabbix.com
- {\$WEBSITE.PATH}
- /events/zabbix_summit_2024#agenda
- {\$WEBSITE.SCHEME} https

Host macros Inherited and host macros]			
Macro	Value		Description	
{\$WEBSITE.DOMAIN}	zabbix.com	Τ×	The domain name	Remove
{\$WEBSITE.PATH}	/events/zabbix_summit_2024#agenda	T ~	The path to resource	Remove
{\$WEBSITE.SCHEME}	https	T ~	The request scheme	Remove

Theory

Go to configuration of items on the Summit agenda page host:

Test the Website {\$WEBSITE.DOMAIN} Get data item:

Test item			? ×
Get value from host	\checkmark		
Host address			Port Port
Test with	Server Proxy		
			Get value
Value	{"duration":7.1453468799591064,"performa	ance_data":{"details":[{"navigatio	Z Time now
	Not supported Error error	text	
Previous value			Prev. time
End of line sequence	LF CRLF		
Macros	{\$WEBSITE.BROWSER}	⇒ chrome	{"duration":0.6685476303100586,"performance_data":{"details":[{"navigation":
	{\$WEBSITE.DOMAIN}	⇒ zabbix.com	{"entry_type":"navigation","dom_content_loaded_event_start":0.2388000000074506,"domain_lookup_start":0.042,"tls_negotiation_time":0.0453000
	{\$WEBSITE.PATH}	⇒ /events/zabbix_su	8888.zabbix.training/zabbix/","connect_end":0.042,"dom_content_loaded_event_start :0.2388000000074506,"critical_ch_restart":0,"decoded_body_
	{\$WEBSITE.SCHEME}	⇒ https	size":3914,"response_end":0.1505,"secure_connection_start":0,"initiator_type":"navigation","encoded_body_size":3914,"render_blocking_status":"no
	{\$WEBSITE.SCREEN.HEIGHT}	⇒ 1080	blocking","not_restored_reasons":null,"worker_start":0,"unload_event_start":0,"response_status":200,"dom_interactive":0.23860000000149012,"start
	{\$WEBSITE.SCREEN.WIDTH}	⇒ 1920	_time":0,"fetch_start":0.042,"activation_start":0,"redirect_end":0,"unload_event_end":0,"first_interim_response_start":0,"next_hop_protocol":"http/1.1"
Preprocessing steps	Name 1: Check for not supported value {"du	uration":7.1453468799591064,"perf	,"delivery_type":"","load_event_end":0.2533000000074504,"response_start":0.1485,"domain_lookup_end":0.042,"redirect_count":0,"transfer_size": 4214,"dom_complete":0.2533000000074504,"connect_start":0.042,"duration":0.2533000000074504,"type":"navigate"},"resource": {"dom_content_loading_time":0,"load_event_handler_time":0,"unload_event_handler_time":0,"response_time":0.01909999999776482,"encoded_siz e":302736,"load_finished":0,"redirect_count":0,"redirect_time":0,"total_size":302736,"tcp_handshake_time":0,"count":3,"transferred_size":303636,"dn s_lookup_time":0,"respurse_fatch_time":0,027709090907019764,"request_time":0,004600000001490134,"min_protocol":"http://d.1"\\\\\\"summary":

Go to the Latest data view for the host Summit agenda page:

- If the page is empty, select any item and press Execute now
- By executing any of the dependent items, the master item is executed

Host	Name 🔺	Last check	Last value	Change	Tags	Info
Summit agenda page	get item id	20s	iVBORw0KGgoAAAA.			History
Summit agenda page	Get metrics check	8m 53s			component: status	History
Summit agenda page	Get screenshot	15s	iVBORw0KGgoAAAA.			History
Summit agenda page	Website zabbix.com Get data				component: raw	
Summit agenda page	Website zabbix.com Navigation decodedBody size 🙎	8m 53s	389.4 KB		component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation DNS lookup time 🙎	8m 53s	0		component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation domContentLoaded time	8m 53s	0.069ms	-0.088ms	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation encodedBody size 🙎	8m 53s	38.76 KB	-20 B	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation load event time 🙎	8m 53s	6.19ms	-3.94ms	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation request time	8m 53s	0.2ms	-0.12ms	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation resource fetch time	8m 53s	0.26ms	-0.16ms	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation response time	8m 53s	0.048ms	-0.037ms	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation service worker processing time				component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation TCP handshake time	8m 53s	0		component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation TLS negotiation time	8m 53s	0.0093ms	-0.0038ms	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Navigation transfer size	8m 53s	39.05 KB	-20 B	component: application performance: navigat	Graph
Summit agenda page	Website zabbix.com Resource decodedBody size	8m 53s	853.81 KB		component: application performance: resource	Graph
Summit agenda page	Website zabbix.com Resource DNS lookup time	8m 53s	0.02ms	+0.0063ms	component: application performance: resource	Graph
Summit agenda page	Website zabbix.com Resource domContentLoaded time	8m 53s	0		component: application performance: resource	Graph
Summit agenda page	Website zabbix.com Resource encodedBody size 🙎	8m 53s	243.8 KB		component: application performance: resource	Graph
Summit agenda page	Website zabbix.com Resource fetch time	8m 53s	203.19ms	-147.64ms	component: application performance: resource	Graph Debug

Go to Dashboards:

- Press Create dashboard and fill in the required fields:
 - Name:
 - Default page display period: 30 seconds
 - Start slideshow automatically: checked
- Press 'Apply'

Add item history widget:

This is the only way how to display screenshots from the browser item

Browser dashboard

- Type: Item history
- Training frontend Name:
- Horizontal • Layout:
- Columns Name: Screenshot Website zabbix.com screenshot Item: Show thumbnail: Checked
- Advanced configuration:
 - Show timestamp

Admin (Zabbix Administrator) ×	Select
Browser dashboard	
30 seconds V	
	Admin (Zabbix Administrator) × Browser dashboard 30 seconds ✓

Das



Results

Website zabbix.com Get data 🙎		
Website zabbix.com Navigation decodedBody size 🔎	2m 2s	331.62 KB
Website zabbix.com Navigation DNS lookup time	2m 2s	⁰ Item history
Website zabbix.com Navigation domContentLoaded time	2m 2s	0 Timestamp Summit
Website zabbix.com Navigation encodedBody size 🔎	2m 2s	3
Website zabbix.com Navigation load event time 🙎	2m 2s	3 2024-09-11 15:52:41 AM
Website zabbix.com Navigation request time	2m 2s	0
Website zabbix.com Navigation resource fetch time	2m 2s	⁰ 2024-09-11 14
Website zabbix.com Navigation response time	0	
Website zabbix.com Navigation service worker processin	l	
Website zabbix.com Navigation TCP handshake time	2m 2s	2024-09-11 13 0
Website zabbix.com Navigation TLS negotiation time	2m 2s	0
Website zabbix.com Navigation transfer size	3 2024-09-11 12	
Website zabbix.com Resource decodedBody size	2m 2s	8

nmit agenda									
0									
pendia w1 00 4 2004 2004 2004									
ZABBI	PRODUCT	SOLUTIONS	SUPPORT & SERVICES	TRAINING	PARTNERS	COMMUNITY	ABOUT US	DOWNLOAD	
Overviev	v Venue	Registration	Speakers	А	genda	F.A.Q.	Terms 8	& Conditions	

Agenda

Ö …

Day 1: Oct 4, 2024 Riga (GMT+3)

09:00 Registration

09:30 Summit Opening

09:40 KEYNOTE Alexel Vladishev, CEO & Founder, ZABBIX, Latvia

10:20 When Zabbix Meets AI - Enhancing Zabbix monitoring workflows with AI features Tomas Hermanek, CEO & Founder, initMAX s.r.o., Czech Republic

10:50 TBA Dmitrijs Lamberts, Head of Technical Support, Zabbix, Latvia

11:10 Browser monitoring in Zabbix 7.0: use case overview Aleksandrs Petrovs-Gavrilovs, Technical Support Engineer, Trainer, Zabbic, Latvia

12:30 Zabbix meets AI - Leverage machine learning for

11:30 Lunch

Day 1: Oct 4, 2024 Riga (GMT+3)

MAIN STAGE

BUSINESS TRACK

14:30 The evolution of IT monitoring landscape Luclano Alves, Country Manager, Zabbix Latam, Brazil

15:00 When two OpenSource projects meet Evgeny Yurchenko, Founder & Tech lead, BGmot, Canada

15:30 Zabbix for MSPs Andre Morton, , AGM Network Consultancy, United Kingdom

16:00 Coffee break

16:30 Business impact of root cause problem detection Steve Destivelle, CEO, IZI-IT, France

2024-09-11 11



Authenticate and screenshot



Potential variables - user macros

- You may need to monitore multiple pages
- Credential (hopefully) will be diferrent
- Various strategies may need to be applied
 - CSS selector
 - Link text
 - Partial link text
 - Tag name
 - Xpath

Template macros Inherited	and template n	nacros			
Macro		Value			
{\$LINK}		https://support.zabbix.com/	T ~		
{\$LOGIN.FORM.BUTTON.PAT	H}	input#login	T ~		
{\$LOGIN.FORM.FIELD.PATH}		input#login-form-username			
{\$LOGIN.FORM.PASS.FIELD.F	PATH}	input#login-form-password	T ~		
{\$LOGIN.FORM.STRATEGY.TYPE}		css selector	T ~		
{\$PAGE.PASSWORD}		*****	\$ \$ \$		
{\$PAGE.USERNAME}		•••••	\$ \$ \$		



Create an account on Zabbix support portal, if you don't have one yet:

▶ if you have one, skip this step ☺

Email* E.g. charlie@atlassian.com II name* Your full name ername* Desired username ssword* Password Please enter the word as shown below G

Create a new host:

- Name: Zabbix support portal
- Host groups: Zabbix pages (new)

Host							
Host IPMI Tag	gs Macros 7 Inventory Encryption Value mapping						
* Host name	Zabbix support portal						
Visible name	me Zabbix support portal						
Templates	type here to search						
* Host groups	Zabbix pages ×	Select					
	type here to search						
Interfaces	No interfaces are defined.						
	Add						

Switch to Macros tab and create macros:

- {\$LINK}
- {\$LOGIN.FORM.BUTTON.PATH}
- {\$LOGIN.FORM.FIELD.PATH}
- \$LOGIN.FORM.PASS.FIELD.PATH
- \$ {\$LOGIN.FORM.STRATEGY.TYPE}
- {\$PAGE.PASSWORD}
- {\$PAGE.USERNAME}

Host

Add

https://support.zabbix.com/ input#login input#login-form-username input#login-form-password css selector <your password> <your username>

Host macros Inherited and host macro	S			
<i>l</i> acro	Value		Description	
{\$LINK}	https://support.zabbix.com/	Τ~	Page link	Remo
{\$LOGIN.FORM.BUTTON.PATH}	input#login		Login field	Remov
{\$LOGIN.FORM.FIELD.PATH}	input#login-form-username	T ~	Username field	Remo
{\$LOGIN.FORM.PASS.FIELD.PATH}	input#login-form-password	Τ~	Password field	Remo
{\$LOGIN.FORM.STRATEGY.TYPE}	css selector	Τ~	Strategy to find form field	Remo
{\$PAGE.PASSWORD}	•••••	\$\$\$	Your login	Remo
{\$PAGE.USERNAME}	lagavazzz	Τv	Your password	Remo

Add the host

Create a new item on

- Name Storage
- Type
- Key

- Type of information
- Parameters

	button	{\$LOGIN.	.FORM.BUTTON.PATH}
	loginfield	{\$LOGIN.	.FORM.FIELD.PATH}
	password	{\$PAGE.P/	PASSWORD}
	passwordfield	{\$LOGIN.	.FORM.PASS.FIELD.PATH
	strategy	{\$LOGIN.	.FORM.STRATEGY.TYPE}
	url	{\$LINK}	
	username	{\$PAGE.U	JSERNAME}
U	pdate interva	d in the second s	5m
Н	istory		1d

Browser

Text

support.auth

Support portal authentication

Continue to the next slide

m Tags Preprocessing			
* Key	support.auth		
Type of information	Text ~		
Parameters	Name	Value	Action
	button	{\$LOGIN.FORM.BUTTON.PATH}	Remove
	loginfield	{\$LOGIN.FORM.FIELD.PATH}	Remove
	password	{\$PAGE.PASSWORD}	Remove
	passwordfield	{\$LOGIN.FORM.PASS.FIELD.PAT	Remove
	strategy	{\$LOGIN.FORM.STRATEGY.TYPI	Remove
	url	{\$LINK}	Remove
	username	{\$PAGE.USERNAME}	Remove
	Add		1
* Script	var browser, result;		_
* Undate interval	1d		

In the item script field paste the script and save the item:

```
var browser, result;
var opts = Browser.chromeOptions();
opts.capabilities.alwaysMatch['goog:chromeOptions'].args = []
browser = new Browser(opts);
browser.setScreenSize(Number(1980), Number(1020));
screens = [];
const screenshot = '';
try {
var params = JSON.parse(value); // Parse the JSON string containing parameters passed from Zabbix.
browser.navigate(params.url);
screens.push(browser.getScreenshot());
// enter username
var el = browser.findElement(params.strategy, params.loginfield);
if (el === null) {throw Error("cannot find name input field");}
el.sendKeys(params.username);
screens.push(browser.getScreenshot());
// enter password
el = browser.findElement(params.strategy, params.passwordfield);
if (el === null) { throw Error("cannot find password input field"); }
el.sendKeys(params.password);
screens.push(browser.getScreenshot());
// login
el = browser.findElement(params.strategy, params.button);
if (el === null) { throw Error("cannot find login button"); }
el.click();
screens.push(browser.getScreenshot());
browser.collectPerfEntries("login");
result = browser.getResult();
catch (err) {
   if (!(err instanceof BrowserError)) {
        browser.setError(err.message);
    }
   result = browser.getResult();
   result.error.screenshot = browser.getScreenshot();
finally {
   return JSON.stringify(result);
```

The item screenshot

* Name	Support portal authentication						
Туре	Browser 🗸						
* Key	support.auth				Select		
Type of information	Text ~						
Parameters	Name	Value		Action			
	button	{\$LOGIN.FORM.BU	ITTON.PATH}	Remove			
	loginfield	{\$LOGIN.FORM.FIE	ELD.PATH}	Remove			
	password	{\$PAGE.PASSWOF	RD}	Remove			
	passwordfield	{\$LOGIN.FORM.PA	SS.FIELD.PAT	Remove			
	strategy	{\$LOGIN.FORM.ST	RATEGY.TYPI	Remove			
	url	{\$LINK}		Remove			
	username	{\$PAGE.USERNAM	IE}	Remove			
	Add						
* Script	var browser, result;			2			
* Update interval	5m						
Custom intervals	Type Inte	rval	Period		Action		
	Flexible Scheduling 50	S	1-7,00:00-2	4:00	Remove		
	Add						
* Timeout	Global Override 60s	Timeouts					
* History	Do not store Store up to	31d					
Populates host inventory field	-None-	~					
Description							
					1		
Enabled							

- ▶ If you wish, you can open noVNC tab (<u>https://<your-IP-address>:7900</u>)
- Press test in the item and observe the visualisation in noVNC

ZABBIX

V Z System Dashboard - ZABBD x +			-
← → C 😄 support.zabbix.com/secure/Dashboard.jspa			* 2
Chrome is being controlled by automated test software.			
ZABBIX Dashboards - Projects - Issues -		Q Search	? Lo
System Dashboard			
Introduction	A Login		e* ***
Welcome to ZABBIX Support System! The Support System is for ZABBIX customers with current technical support contracts and ZABBIX users. Not a ZABBIX customer or a customer with expired support? To purchase a ZABBIX Support Tier and to renew your Support Agreement kindly contact us. Learn more about the benefits of ZABBIX Support Services. DISCLAIMER By creating JIRA ticket or by leaving a comment in any of these Projects: ZABBIX BUGS AND ISSUES (ZBX), ZABBIX CONTRIBUTION (ZBXCTR), or ZABBIX FEATURE REQUESTS (ZBXNEXT), you certify that you understand and agree that your Name and Surname, or all (hereafter - Personal Data), you intentionally submit to Zabbix, will be publicly available to any person without logging in at the relev Project's webpage. If you do not agree with your Personal Data being publicly disclosed, then you must not create JIRA ticket in the relevant Project. Zabbix relies on a legitimate interest basis (Art. 6 (1) (f) of CDPR) for collecting, storing, and processing your Personal Data for the purpose of publicly disclosing your personal data in JIRA tickets.	Username lagavazzzi Password Remember my login on this computer Not a member? Sign up for an account. Log in Log in Login SSO Can't access your account? St Quick Links Browse Projects Search for Issues		•••
Projects			
ZABBUX BUGS AND ISSUES (ZBX) Lead Zabbix Support Team	Ŧ -		
ZABBLX CONTRIBUTION (ZEXCTR) Lead Aleksandre Sebiskyeradze	Ť •		
ZABBIX FEATURE REQUESTS (25XNEXT) (A)	Y -		
Atlassian Jira <u>Project Manag</u> Powered by a free Atlassian <u>Jira</u> open source	nent Software - About Jira - Report a problem icense for SIA Zabbix. Try Jira - <u>bug tracting software</u> for your team.		
A Workenson & S. 10 Enn Thu 17:17:ET & A	Sustan Darkhoved, 7ADDIV SUDDDT, Secola Shra		
WORKSpace 4 ▶ 19 Sep, Inu 12:12:53 ▲ ▶ O O	System Dashboard - ZABBIX SUPPORT - Google Chrome		

Confirm in the frontend, that test was succesful

Item	Test item				? 🗙	? X	
Item Tags	Get value from host	\checkmark				î	
	Host address			Port			
	Test with	Server Proxy					
					Get value		Remove
Turce	Value	{"duration":17.9746356010437,"performan	nce_data":{"details	s":[{"mark":"login 🗾 Time	now		
Type o		Not supported Error error	er text				
	Previous value			Prev time			
	Find of line approximate						
	End of line sequence						
	Macros	{\$LINK}	⇒	https://support.zabbix.com/			
		{\$LOGIN.FORM.BUTTON.PATH}	⇒	input#login			
		{\$LOGIN.FORM.FIELD.PATH}	⇒	input#login-form-username			
		{\$LOGIN.FORM.PASS.FIELD.PATH}	⇒	input#login-form-password			
		{\$LOGIN.FORM.STRATEGY.TYPE}	⇒	css selector			
		{\$PAGE.PASSWORD}	⇒	***			
* 1 10		{\$PAGE.USERNAME}	⇒	lagavazzz			
Ομ	Result	Result converted to Text {"o	duration":17.97463	356010437,"performance_data":{"deta	ails":[{"mark":"login","navigat		
003	Add * Timeout Global	Override 60s Timeouts	{"duration":17. {"entry_type":" 8092651365,"r ecure/Dashboa end":0.174299 blocking","not_	9746356010437,"performance_data" navigation","dom_content_loaded_ev request_start":0.0096999980926513 ard.jspa","connect_end":0.008,"dom_ 19997138977,"secure_connection_star _restored_reasons":null,"worker_start	("details":[("mark":"login","naviga ent_start":7.712099999904632," 7,"redirect_start":0,"load_event_ content_loaded_event_end":7.72 rt":0.008,"initiator_type":"navigat ".0,"unload_event_start":0.23433	ation": domain_lookup_start start":7.76779999971 25,"critical_ch_restart" ion","encoded_body_ 9999061853028,"resp	":0.008,"tls_negotiation_time":0.001699999 13898,"name":"https://support.zabbix.com/s ":0,"decoded_body_size":91791,"response_ size":19816,"render_blocking_status"."non- onse_status":200,"dom_interactive":0.6957
	* History Do not s	store Store up to 31d	nse_start":0,"n	r,"start_time":0,"fetch_start":0.008,"ac hext_hop_protocol":"h2","delivery_type	cuvation_start":0,"redirect_end":0 e":"","load_event_end":7.781099	999904632,"response	cu.23489999961853028,"first_interim_respo e_start":0.09869999980926514,"domain_lo
Populates host in	ventory field -None-	~	okup_end":0.0 2,"type":"navig	108,"redirect_count":0,"transfer_size":: jate"},"resource":	20116,"dom_complete":7.767599	9999904633,"connect	_start":0.008,"duration":7.78109999990463
	Description		{"dom_content 4890402,"load "dns_lookup_ti [{"detail":null,"s	t_loading_time":0,"load_event_handle _finished":0,"redirect_count":0,"redire ime":0,"resource_fetch_time":21.1665 start_time":0.5728999996185302,"eni	rr_time":0,"unload_event_handle ct_time":0,"total_size":20861940 99999427795,"request_time":15 try_type":"mark","duration":0,"nai	r_time":0,"response_t),"tcp_handshake_tim 5.661499999523159," me":"app-header-skel	time":4.349299999713898,"encoded_size": e":0,"count":47,"transferred_size":4524772, min_protocol":"h2"},"user": eton"},



Now there is a host with exactly one potential master item, what's next?

- Go to Data collection > Templates
- Find template Website by Browser and click on items

Name 🖌	•	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version
Website	e by Browser	Hosts 1	ltems 27	Triggers 3	Graphs 2	Dashboards 1	Discovery	Web	Zabbix	7.0-0
0 selected	Export V Mass update	Delete	Delete and clear							

Select all the item, press copy at the bottom of the page copy them to the <u>Zabbix support portal</u> host

HISTOR	Y 3d 26	Copy 27 items							×	:
~	Name 🔺	Target type	Template groups	Host groups	Templates	Hosts				
~ ···	Website {\$WEBSITE.DOMAIN} Get data: Get metrics check	* Target	Zabbix support port	al X		Select				
✓	Website {\$WEBSITE.DOMAIN} Get data		type here to search							L}
✓	Website {\$WEBSITE.DOMAIN} Get data: Website {\$WEBSITE.DOMAIN} Navigation decodedBody size							Сору	Cancel	L.
✓	Website {\$WEBSITE.DOMAIN} Get data: Website {\$WEBSITE.DOMAIN} Navigation DNS lookup time		web	osite.navigation.c	dns_lookup_tir	me				
✓	Website {\$WEBSITE.DOMAIN} Get data: Website {\$WEBSITE.DOMAIN} Navigation domContentLoaded time		web	osite.navigation.c	dom_content_	loaded_time	•			

Theory

Now, back at the Zabbix support portal host

Select all dependent items and click mass update

	Name 🛦	Triggers	Key	Interval
	Website (\$WEBSITE.DOMAIN) Get data: Get metrics check		website.metrics.check	
	Support portal authentication		support.auth	1d
•	Website (\$WEBSITE.DOMAIN) Get data		website.get.data	{\$WEBSITE.GET.DATA.INTERVAL}
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation decodedBody size		website.navigation.total_size	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation DNS lookup time		website.navigation.dns_lookup_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation domContentLoaded time		website.navigation.dom_content_loaded_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation encodedBody size		website.navigation.encoded_size	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation load event time		website.navigation.load_time	
•	 Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation request time 		website.navigation.request_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation resource fetch time		website.navigation.resource_fetch_time	
• •	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation response time		website.navigation.response_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation service worker processing time		website.navigation.service_worker_processing_time	
• ••	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation TCP handshake time		website.navigation.tcp_handshake_time	
~ ••	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation TLS negotiation time		website.navigation.tls_negotiation_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Navigation transfer size		website.navigation.transferred_size	
~ ••	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource decodedBody size		website.resource.total_size	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource DNS lookup time		website.resource.dns_lookup_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource domContentLoaded time		website.resource.dom_content_loaded_time	
• •	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource encodedBody size		website.resource.encoded_size	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource fetch time		website.resource.fetch_time	
• •	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource load event time		website.resource.load_time	
~ ••	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource request time		website.resource.request_time	
• •	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource response time		website.resource.response_time	
~ ••	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource service worker processing time		website.resource.service_worker_processing_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource TCP handshake time		website.resource.tcp_handshake_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource TLS negotiation time		website.resource.tls_negotiation_time	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Resource transfer size		website.resource.transferred_size	
•	Website (\$WEBSITE.DOMAIN) Get data: Website (\$WEBSITE.DOMAIN) Screenshot		website.screenshot	

26 selected Enable Disable Execute now Clear history and trends Copy Mass update

s update Delete

Theory 備 36

- Change master item for all the items to Support portal authentication
- Delete the Website {\$WEBSITE.DOMAIN} Get data item

Mass update		?	×
Item Tags Preprocess	sing		
Public key file	Original		
Private key file	Original		
Password	Original		
Update interval	Original		
Timeout	Original		
History	Original		
Trends	Original		
Status	Original		
Log time format	Original		
Value mapping	Original		
Enable trapping	Original		
Allowed hosts	Original		
Master item 🗸	Zabbix support portal: Support portal authentication × Select		
Description	Original		
	Update Ca	incel	

Execute now the any of the items on the host

Confirm on the latest Monitoring > Latest data page, that data is collected

Host	Name 🛦	Last check	Last value	Change	Tags	Info
Zabbix support portal	Get metrics check	2m 3s			component: status	History
Zabbix support portal	Support portal authentication	2m 3s	{"duration":24.649171			History
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation decodedBody size	2m 3s	89.9 KB		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation DNS lookup time	2m 3s	0		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation domContentLoaded 🔎	2m 3s	0.016ms		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation encodedBody size 🙎	2m 3s	19.37 KB		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation load event time	2m 3s	10.48ms		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation request time	2m 3s	0.11ms		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation resource fetch time	2m 3s	0.25ms		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation response time	2m 3s	0.12ms		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation service worker proc	2024-09-19 12:41:42	PM		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation TCP handshake time	2m 3s	0		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation TLS negotiation time	2m 3s	0.022ms		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Navigation transfer size	2m 3s	19.66 KB		component: application performance: navigat	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Resource decodedBody size	2m 3s	19.9 MB		component: application performance: resource	Graph
Zabbix support portal	Website {\$WEBSITE.DOMAIN} Resource DNS lookup time	2m 3s	0		component: application performance: resource	Graph

Script

Now, back again at the Zabbix support portal host

- Open and clone the Support portal authentication item
 - Item name
 Support portal screenshots
 - Key support.screens
 - Modify the line 46, by replacing: return JSON.stringify(result); with return JSON.stringify(screens);

New item	45	finally {
Item Tags Preprocessing * Name Support portal screenshots	46 47	return JSON.stringify(screens); }
Type Browser ~		
* Key support.screensType of information Text 		Select

- Apply, Test and Add the item
- Note how the output now contains only screenshots



Screenshot is created for each step as can be seen in the script:

Using that information we will create dependent items





Click on the three dots, near the new Support portal screenshots item

Select create dependent item

Name ▲	VIEW
Support portal authentication: Get metric	Latest data
	Graph
Support portal authentication	Values
Support portal screenshots	500 latest values
	CONFIGURATION
	Item
	Triggers
	Create trigger
	Create dependent item
	Create dependent discovery rule

First screenshot will be

- Name
- ► Key

New item

Type of information

Support portal screenshot

- login.screenshot
- Binary (allowed only for dependent item)

Item Prepr

* Name	Support portal screenshot	
Туре	Dependent item 🗸	
* Key	login.screenshot	Sel
Type of information	Binary ×	
* Master item	Zabbix support portal: Support portal screenshots X	Sel
* History	Do not store Store up to 31d	
Description		
		1

Add preprocessing step

JSONPath

Tags Preproce	essing	1				
ocessing steps 🕐		Name			Parameters	Custom on fa
	1:	JSONPath		~	\$[0]	✓
		Custom on fail	Discard value	Set value to	Set error to	
	Add					
Type of information	Bina	ary	~			

\$[0]

Theory 佩



Make screenshots for each step





Navigate and fill in any form

Download .yaml file from <u>here</u>

- Import as a host
- Check out the explanation

Aleksandrs	
Last name *	
Petrovs-Gavrilovs	
Company *	JavaScript
SIA ZABBIX	
	34 // enter name
Country / Territory *	35 var el = browser.findElement("xpath", "//label[text()='First name']/following::input");
Latvia	36 if (el === null) {throw Error("cannot find name input field name");}
	37 el.sendKeys("Aleksandrs");
hone number *	38
371 67784742	39 // enter last name
	40 var el = browser.findElement("xpath", "//label[text()='Last name']/following::input");
usiness email address *	41 if (el === null) {throw Error("cannot find name input field last name");}
zabbix@zabbix.com	42 el.sendKeys("Petrovs-Gavrilovs");
	⁴³ Filling form
Comments	44 // enter company n FIIIII 8 IOIIII
Enter your comments or questions here	<pre>45 var el = browser.findElement("xpath", "//label[text()='Company']/following::input");</pre>
	46 if (el === null) {throw Error("cannot find name input field company name");}
	47 el.sendKeys("SIA Zabbix");
By clicking below, you are agreeing to the Zabbix Privacy Policy	48
	49 // select country
Submit Training Request	50 var el = browser.findElement("css selector", "select#country");
	51 if (el === null) {throw Error("cannot find country selection");}
	52 el.sendKeys("Latvia");





Navigate

The key Zabbix event of 2024 is com	ng rig Click one poc	imentation Q English (US) V Customer Login 🛦
ZABBIX PRODUCT SOLUTIONS SUPPORT & SERVI	TRAINING PARTNER: 11	<pre>//var el = browser.findElement("xpath", "//a[@href='/training']//span"); if (el === null) {</pre>
TRAINING OVERVIEW Master Zabbix under the guidance of the best Zabbix trainers in the world Schedule Trainers Certified User Schedule Training FAQ Certificate Check Training Application Form	EXTRA COUR Participate in a depth course t specific monite141415participate in a depth course t specific monite161717Automation and with Zabbix API19Advanced Zabbi Processing20Advanced Zabbi Administration21Advanced Probl Anomaly Detec23Advanced Zabbi Advanced Zabbi Administration23Advanced Probl Anomaly Detec24Advanced Zabbi Anomaly Detec23Advanced Zabbi Anomaly Detec24	<pre>throw Error("cannot find traininglink"); } el.click(); el = browser.findElement("link text", "Training Application Form"); if (el === null) { throw Error("cannot find application link"); } el.click(); el = browser.findElement("xpath", "//span[text()='Certified Specialist']"); if (el === null) { throw Error("cannot select training"); </pre>
Click three and four Date Time Online 23 - 27 Sep, 2024 09:00-18:00	monitoring ۲۲۲۲ 26 27 28 29 29 30 30 31 32 32	<pre>} el.click(); el = browser.findElement("xpath", "//td[text()='GMT+9 (Asia & Oceania)']"); if (el === null) { throw Error("cannot find specific training"); } el.click();</pre>

Home / Training / Certificate Check /

Zabbix certificate granted

We hereby certify that Aleksandrs Petrovs-Gavrilovs has passed Zabbix Certified Trainers course 7.0 exam on 2024-04-21 and received a certificate CT-2404-003.



		JavaScript	
Download certificate	Download badge	Perform	
		10 // enter name	
		11 var el = browser.findElement("xpath", "//label[text()='First Name']/following::inp	put");
		12 if (el === null) {throw Error("cannot find name input field");}	
		13 el.sendKeys("Aleksandrs");	
		14	
		15 // enter last name	1
		<pre>16 var el = browser.findElement("xpath", "//label[text()='Last name']/following::input</pre>	1t");
		17 if (el === null) {throw Error("cannot find name input field");}	
		<pre>18 el.sendKeys("Petrovs-Gavrilovs");</pre>	
		19	1
		20 // enter cert number	
		21 var el = browser.findelement("xpath", "//label[text()='Certificate number']/follow	<pre>ving::input");</pre>
		22 if (el === null) {throw Error("cannot find name input field");}	(inclusion of the second s
		23 e1.senakeys(~C1-2404-003~))	- Contraction of the second seco
		24 // select rev Filling diferrent form	(Con-
		25 // Select Vers / IIIII 8 UNCHICHCIUTOIT	t\div.nth_of_type(5)\select").
		27 if (el === null) {throw Error("cannot find name input field"):}	
		28 el. sendKeys ("7.0")	
		Selecting version	
		30 // check certificate	
		<pre>31 var el = browser.findElement("xpath", "//button[text()='Check Certificate']");</pre>	
		32 if (el === null) {throw Error("cannot find name input field");}	
		33 el.click();	
		34	
		<pre>35 result = browser.getResult();</pre>	
		36 screenshot = browser.getScreenshot();	
		<pre>37 result.screenshot = browser.getScreenshot();</pre>	
		38 }	



Get data - detect problems



Discover the elements

Download .yaml file from <u>here</u>

- Import as a host
- Update the macro values
- Check the host ID and write it down
- Create yourself an API token and save it somewhere

{\$PAGE.PASSWORD}	your-password	T ~
{\$PAGE.USERNAME}	<your-login></your-login>	T ~
{\$ZABBIX.DOMAIN}	<your-vm-ip></your-vm-ip>	T ~



Discover the elements

Trainer will explain the script	<pre>43 // search for ZBXNEXT 44 el = browser.findElement("css selector", "textarea#advanced-search"); 45 if (el === null) { throw Error("cannot find login button"); } 46 el.clear();</pre>
Discover latest ZBXNEXT: Get ZBXNEXT-9413	Get.data[ZBXNEXT-9413]
Discover latest ZBXNEXT: Get ZBXNEXT-9414	Get.data[ZBXNEXT-9414] / click search
Discover latest ZBXNEXT: Get ZBXNEXT-9415	Get.data[ZBXNEXT-9415] = browser.findElement("Apach, //Dateon(text() Search']");
Discover latest ZBXNEXT: Get ZBXNEXT-9417	<pre>Get.data[ZBXNEXT-9417] L.click();</pre>
Discover latest ZBXNEXT: Get ZBXNEXT-9419	Get.data[ZBXNEXT-9419]
Discover latest ZBXNEXT: Get ZBXNEXT-9420	Get.data[ZBXNEXT-9420] abbix.sleep(1000):
Discover latest ZBXNEXT: Get ZBXNEXT-9421	Get.data[ZBXNEXT-9421]
Discover latest ZBXNEXT: Get ZBXNEXT-9422	Get.data[ZBXNEXT-9422] (get the ZBXNEXT
Discover latest ZBXNEXT: Get ZBXNEXT-9423	Get.data[ZBXNEXT-9423] ar links = [];
Discover latest ZBXNEXT: Get ZBXNEXT-9424	Get.data[ZBXNEXT-9424] or (var n = 0; n < LOOKING TOT ETETTETICS
Discover latest ZBXNEXT: Get ZBXNEXT-9425	Get.data[ZBXNEXT-9425]
Discover latest ZBXNEXT: Get ZBXNEXT-9426	<pre>Get.data[ZBXNEXT-9426] inks = uniq(links);</pre>
Discover latest ZBXNEXT: Get ZBXNEXT-9427	$Get.data[ZBXNEXT-9427]$ ir lld = []; $(i = 0; i \leq links, length; i++) \in [I]$
Discover latest ZBXNEXT: Get ZBXNEXT-9428	Get.data[ZBXNEXT-9428] if (links[i].match(/.ZBXNEXT.*/)) {
Discover latest ZBXNEXT: Get ZBXNEXT-9431	Get.data[ZBXNEXT-9431] var row = {};
Discover latest ZBXNEXT: Get ZBXNEXT-9432	Get.data[ZBXNEXT-9432] var modifiedLink = links[i].replace('/browse/', '');
Discover latest ZBXNEXT: Get ZBXNEXT-9433	Get.data[ZBXNEXT-9433] row["{#ZBXNEXT}"] = modifiedLink;
Discover latest ZBXNEXT: Get ZBXNEXT-9434	Get.data[ZBXNEXT-9434]

JavaScript



Getting the info about elements

Item prototype							
Item prototype Ta	gs Preprocessing 1						
* Name	{#ZBXNEXT} creation date						
Туре	Browser 🗸						
* Key	Get.date[{#ZBXNEXT}]			Select			
Type of information	Numeric (unsigned)	<pre>browser.navigate(params.web + params.url); var el = browser.findElements("css selector", "span#created-val>time");</pre>					
Parameters	Name	var date= for (var r	[]; n = 0; n < el.length; n++) { date.push(el[n].getAttribute('datetime'))	; }		
	url	date = uni	lq(date);	Getting the attribute			
	web	return (da	ate):				
	Add		Zabbix support portal	ZBXNEXT-9473 creation date	41m 58s	2024-08-29 11:13:51	
* Script	var params = JSON.parse	e(value);	Zabbix support portal	ZBXNEXT-9474 creation date	41m 53s	2024-08-30 07:49:52	
Units	Units unixtime		Zabbix support portal	ZBXNEXT-9475 creation date	41m 47s	2024-08-30 10:01:13	
			Zabbix support portal	ZBXNEXT-9477 creation date	41m 42s	2024-08-31 03:19:00	
			Zabbix support portal	ZBXNEXT-9479 creation date	41m 36s	2024-08-31 07:40:56	
			Zabbix support portal	ZBXNEXT-9481 creation date	41m 31s	2024-09-01 05:34:41	



Creating the trigger

Trigger prototype							
Trigger prototype Tags De	endencies						
* Nan	e A new {#ZBXNEXT}	has been created					
Event nan	A new {#ZBXNEXT} has been created						
Operational da	a						
Sever	ty Not classified In	nformation Warning Av	verage High	n Disaster			
* Expression	n (now()-last(/Za	abbix support portal/G	et.date[{#Z	BXNEXT}])) /8640	<pre>>> <{\$DAYS.SINCE.ZBXNEXT.CREATED}</pre>	Add	
. т	me ▼ Severity	Recovery time Status	Info	Host	Problem		Operational data
09:43:0	OAM Information	PROBLEM	1 2	Zabbix support porta	A new ZBXNEXT-9487 has been c	reated	2024-09-17 12:33:03 PM
09:42:3	2 AM • Information	PROBLEM	1 2	Zabbix support porta	A new ZBXNEXT-9486 has been c	reated	2024-09-17 04:28:44 AM

Send screenshots

Get the screenshots

Host id must be updated to correct one



ZABBIX SUMMIT 2024

Send them using email media type

							SUMMIT
Message templa	ate		×				2024
Message type	Problem	~					
Subject	Problem: {EVENT	:NAME}					
Message	<pre><!DOCTYPE html <html> <head> <title>Base64 </title></head> <body> <h1>Base64 In <img alt="</td" src="data</pre></td><td>>
Image Example</title>
nage Example</h1>
;jmace/ibec:base64.{ITEM.VALUE2}"/><td>"test"></td><td></td><td></td><td></td><td></td></h1></body></pre>	"test">					
	 	Base64 Image E	xample				
		ZABBIX Dash	boards 🗸 Projects 🖌 Issues 🖌				
		Zabbix feature req	. ZABBIX FEATURE REQUESTS Option to includ) ZBXNEXT-9487 e hostname ir	n "root cause" for services		
			ABBIX Dashboards - Projects - Issu	es 💌			
			BBIX FEATURE REQ ZABBIX FEAT	URE REQUESTS / ZBXNEXT	-9485 s for tags in Problems/Latest data		
		Ssues	III ZABBIX Dashboa	rds 🗸 Projects 🗸 I	ssues 🗸		
		🗠 Reports		ZABBIX FE Proble	ems > Show tags		
			Issues	Open 🛩			. • • –
			Reports	✓ Details	_		
			ද _ු , components	Type: Prioritv:	 Change Request Trivial 	Resolution: Fix Version/s:	Unresolved None

ZABBIX

Thank you

Aleksandrs Petrovs-Gavrilovs

Training Technical Administrator

