ZABBIX 5.4 RELEASE DAY! ENGLISH SCHEDULED REPORT

ARTŪRS LONTONS TECHNICAL SUPPORT ENGINEER ZABBIX

GENERATION



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REPORTING IN 5.4

Zabbix version 5.4 makes the first step in bringing the end user out of the box scheduled reporting

- New web service component responsible for generating reports \bigcirc
- No need to use custom scripts \bigcirc
- Quick and simple to install \bigcirc
- Works with existing Email media types \bigcirc
- \bigcirc Respects user permissions and roles
- Ability to test the report before implementing it \bigcirc





SCHEDULED REPORTS

New 'Scheduled reports' section added in 5.4

Z	ABBIX « 🔊	Scheduled reports		
Dem	no Instance			
0	Monitoring ~		Name Show All Created by	me Status Any
	Reports ^	Name ▲	Owner	Repeats
	System information	DC1 problems report	Arturs	Daily
	Scheduled reports	DC2 problems report	Arturs	Daily
	Availability report	DC Global view	Arturs	Daily
	Triggers top 100	Management report	Admin (Zabbix Administrator)	Daily
	Audit	Network team	John Smith	Daily
	Action log		NOC manager	Weekly
	Notifications	Website status	John Smith	Daily
4	Configuration v			
•	Administration v	0 selected Enable Disable Delete		

			Filter 🍸
Enabled Disabled Expired			
Period	Last sent	Status	Info
Previous day	Never	Enabled	
Previous day	Never	Enabled	
Previous day	Never	Enabled	
Previous day	Never	Enabled	
Previous day	Never	Enabled	
Previous day	Never	Enabled	
Previous day	Never	Enabled	
			Displaying 7 of 7 found

Create repo

CREATING A REPORT

Ability to create a scheduled report based on an existing dashboard

- Daily, Weekly, Monthly or Yearly report cycle \bigcirc
- \bigcirc Reports for Previous: Day/Week/Month/Year
- Restrict report generation by Start and End date \bigcirc
- Scheduled reports

* Owner	Arturs ×	Select
* Name	DC Global view	
* Dashboard	DC Overview ×	Select
Period	Previous day Previous week Previous month Previous year	
Cycle	Daily Weekly Monthly Yearly	
Start time	00 : 00	
Start date	YYYY-MM-DD	
End date	YYYY-MM-DD	





RECEIVING A REPORT

Report will be generated in PDF format

- Report will contain the Dashboard information \bigcirc
- \bigcirc {TIME} macro can be used to provide the time of when the reprot was sent







RECEIVING A REPORT - EXAMPLE

Report will be generated in PDF format







After performing the upgrade to 5.4 you will see two new options in role permissions

Scheduled reports UI element \bigcirc

- Allows to view scheduled reports
- Accessible to Super admin and Admin user Types
- \equiv User roles

* Name	NoC Admin		
User type	Admin ~		
	Access to UI elements		
Monitoring	✓ Dashboard	✓ Problems	✓ Hosts
	✓ Overview	 Latest data 	✓ Maps
	✓ Discovery	 Services 	
Inventory	✓ Overview	✓ Hosts	
Reports	System information	✓ Availability report	✓ Triggers top 100
_	Audit	Action log	✓ Notifications
	Scheduled reports		
Configuration	✓ Host groups	 Templates 	✓ Hosts
	✓ Maintenance	 Actions 	Event correlation
	✓ Discovery	✓ Services	
Administration	General	Proxies	Authentication
	User groups	User roles	Users
	Media types	Scripts	Queue

* At least one UI element must be checked





If **Scheduled reports UI element** is unchecked, the user won't be able to access the

Scheduled reports section

<u>.</u>

Access denied

- You are logged in as "NoCUser". You have no permissions to access this page.
- If you think this message is wrong, please consult your administrators about getting the necessary permissions.













After performing the upgrade to 5.4 you will see two new options in role permissions

Manage scheduled reports action \bigcirc

- Allows to create and edit scheduled reports
- Accessible to Super admin and Admin user Types

	Access to API	
Enabled		
API methods	Allow list Deny list	
	type here to search	Select
	Access to actions	
	✓ Create and edit dashboards	
	✓ Create and edit maps	
	✓ Create and edit maintenance	
	✓ Add problem comments	
	✓ Change severity	
	Acknowledge problems	
	✓ Close problems	
	Execute scripts	
	Manage API tokens	
	Manage scheduled reports	
Default access to new actions		
	Update Clone Delete Cancel	





If **Manage scheduled reports action** is unchecked, the user won't be able to create

new or view existing reports

\equiv Scheduled reports

* Owner	Admin (Zabbix Administrator) 🗙	Selec
* Name	Management report	
* Dashboard	Inaccessible dashboard 🔀	Selec
Period	Previous day Previous week Previous month Previous year	
Cycle	Daily Weekly Monthly Yearly	
Start time	06 : 46	
Start date	2021-05-13	
End date	2021-05-15	
Subject	Infrastructure report	
Message	Infrustructure report for {TIME}	
* Subscriptions	RecipientGenerate report byStatusActionAdmin (Zabbix AdministraAdmin (Zabbix AdministraIncludeRemoveAdd userAdd user group	
Description	Test	
Enabled	\checkmark	
IU	Update Clone Test Delete Cancel	





REPORTS – RECIPIENTS

Report subscriptions can contain users or user groups

- When selecting a user you can specify to include or exclude the user from \bigcirc receiving reports
- User group to host group permissions are still applied] \bigcirc
- \bigcirc We can specify which user is going to be generating the report
 - The current user performing the configuration changes \bigcirc
 - Or the recipient \bigcirc







REPORT PREREQUISITES

Two additional packages need to be installed to enable the reports

- **zabbix-web-service** additional report service \bigcirc
 - Needs to be reachable from the Zabbix server \bigcirc
 - By default listens on port **10053** \bigcirc
 - Can be installed on a separate machine \bigcirc
- **Google Chrome** is required \bigcirc
 - Chromium reported to work on some distors (not 100% tested) \bigcirc
 - Google Chrome packages not included with Zabbix \bigcirc





INSTALLING THE PREREQUISITES

Install the **zabbix-web-service** package

#yum install zabbix-web-service

Install the **Google Chrome** package

#wget https://dl.google.com/linux/direct/google-chromestable_current_x86_64.rpm

#yum install google-chrome-stable_current_x86_64.rpm









CONFIGURING REPORTS – WEB SERVICE

Web service supports many different configuration options

 \bigcirc Logging

Option: LogType - system (syslog), file, console (standard output) ### Option: LogFile - Log file location ### Option: LogFileSize - Size in MB before rotation ### Option: DebugLevel - 0 - 5

List of allowed server addresses \bigcirc

Option: AllowedIP List of comma delimited IP addresses, optionally in CIDR notation, or DNS names of Zabbix servers

Timeout settings \bigcirc

Option: Timeout - Spend no more than Timeout seconds on processing (Default - 3)







CONFIGURING REPORTS – WEB SERVICE

Web service supports many different configuration options

Listen Port \bigcirc

Option: ListenPort - Service will listen on this port for connections from the server (Default - ListenPort=10053)

Encryption settings \bigcirc

```
### Option: TLSAccept - unencrypted or cert
### Option: TLSCAFile - pathname of a file containg top level CA(s)
certificates
### Option: TLSCertFile - pathname of a file containing the service certificate
### Option: TLSKeyFile - pathname of a file containing the service private key
```







CONFIGURING REPORTS - SERVER

In addition, server also now contains report related parameters

Number of report writer instances \bigcirc

Option: StartReportWriters - Number of pre-forked report writer instances. (Default - 0)

Zabbix Web Service URL \bigcirc

Option: WebServiceURL - URL to Zabbix web service, used to perform web related tasks. (No default value)

#Example: http://192.168.1.156:10053/report







CONFIGURING REPORTS – FRONTEND

As our lest step, let's enable communication between frontend and the web service

- Available in **Administration General Other** \bigcirc
- Specify the **Zabbix frontend** url that will be reachable by the web service \bigcirc

Other configuration parameters ~



Select

Select





REPORTS – TESTING

Once the report has been configured you can send out a test report

* Owner	Admin (Zabbix Administrator) 🗙			
* Name	Management report			
* Dashboard	Web server status 🗙			
Period	Previous day Previous week Previous month Previous year			
Cycle	Daily Weekly Monthly Yearly			
Start time	06 : 46			
Start date	2021-05-13			
End date	2021-05-15			
Subject	Infrastructure report			
Message	Infrustructure report for {TIME}			
* Subscriptions	RecipientGenerate report byStatusActionAdmin (Zabbix AdministraAdmin (Zabbix AdministraIncludeRemoveAdd userAdd user groupIncludeIncludeInclude			
Description	Test			
Enabled				
	Update Clone Test Delete Cancel			

Currently test reports do not resolve the {TIME} macro

 \bigcirc





Make sure that the user has a properly configured Email media

- \bigcirc Make sure that the Email media type settings are properly configured
- \bigcirc Test the media type
- Test the report \bigcirc

Name 🔺	Owner	Repeats	Period	Last sent
DC2 problems report	Arturs	Daily	Previous day	Never
DC Global view	Arturs	Daily	Previous day	Never
Management report	Admin (Zabbix Administrator)	Daily	Previous day	2021-05-13 16:49
Network team	John Smith	Daily	Previous day	Never
NOC	NOC manager	Weekly	Previous day	Never
Website status	John Smith	Daily	Previous day	Never



Displaying 6 of 6 found







Make sure that the correct Web service address is configured on the Zabbix server in WebServiceURL parameter

- Confirm that the Zabbix server can connect to Zabbix web service \bigcirc
- Check firewall settings if the Zabbix web service is running on a dedicated \bigcirc machine
- Make sure that third party security software isn't blocking the communication \bigcirc







Make sure that the Web service URL is configured without any typos

Located in Zabbix server configuration file \bigcirc

WebServiceURL=http://192.168.1.156:10053/reportwrong

Test report generating

Details A Report generating test failed. × A 404 page not found

Ok

×











Don't forget to assign the frontend URL in Administration – Other

- ⊘ If the URL is misconfigured you might start receiving empty reports
- If the URL syntax is wrong, you will receive an error message about malformed



 \equiv Other configuration parameters \checkmark



reports e about malformed





Remember that Google Chrome does not come pre-packaged with Zabbix!

- Install Google Chrome separately \bigcirc
- Make sure that Google Chrome is available via \$PATH environmental variable \bigcirc

Test repo	rt generating	×
	Details Report generating test failed.	×
	Cannot fetch data: exec: "google-chrome": executable file not found in \$PATH.	-







ZABBIX RELEASE 5.4 DAY! ENGLISH

THANK YOU!

QUESTIONS?

