Icinga2 Notification to Telegram through Director

Prerequisite

- Telegram BOT Token code and Chat ID created.
- Notification Users are created in Icinga Director

Create new command on Icinga2

We have created custom bash codes to translate Icinga notifications to Telegram. Download them into the scripts directory.

```
cd /etc/icinga2/scripts

wget https://raw.githubusercontent.com/LEARN-
LK/Tutorials/master/Scripts/ICINGA2/icinga2-telegram-host.sh

wget https://raw.githubusercontent.com/LEARN-
LK/Tutorials/master/Scripts/ICINGA2/icinga2-telegram-service.sh

chmod +x icinga2-telegram-host.sh

chmod +x icinga2-telegram-service.sh
```

Then log into Icinga Director and create two commands as follows.

- Host Alarm to Telegram

Add new Icinga Command

Command type*	Notification Plugin Command
Command name*	Host Alarm By Telegram
Imports	Add a new one...
Command*	/etc/icinga2/scripts/icinga2-telegram-host.sh
Timeout	
Render as string	- please choose -
Disabled	No

▼ Zone settings

Cluster Zone	- please choose -

Add

Add following Arguments as well.

Argument	Value
-4	$address$
-6	$address6$
-b	$notification.author$
-c	$notification.comment$
-d	$icinga.long_date_time$
-f	$user.email$
-i	$icingaweb2url$
-l	$host.name$
-n	$host.display_name$
-o	$host.output$
-s	$host.state$
-t	$notification.type$
-v	$notification_logtosyslog$
-x	$tokencode$
-y	$chat_id$

- Service Alarm to Telegram

| Command type*	Notification Plugin Command
Command name*	Service Alarm By Telegram
Imports	Add a new one...
Command*	/etc/icinga2/scripts/icinga2-telegram-service.sh
Timeout	
Render as string	- please choose -
Disabled	No

▼ Zone settings

Cluster Zone	- please choose -

Add following Arguments as well.

Argument	Value
-4	$address$
-6	$address6$
-b	$notification.author$
-c	$notification.comment$
-d	$icinga.long_date_time$
-e	$service.name$
-f	$notification_from$
-i	$icingaweb2url$
-l	$host.name$
-n	$host.display_name$
-o	$service.output$
-r	$user.email$
-s	$service.state$
-t	$notification.type$
-u	$service.display_name$
-v	$notification_logtosyslog$
-x	$tokencode$
-y	$chat_id$

Create Custom Variables

Above scripts uses two custom variables called tokencode and chat_id, these are Telegram User specific data and we have to define them on Iciga Director before applying it on Notifications.

Go to Icinga Director --> `Data Field Categories`
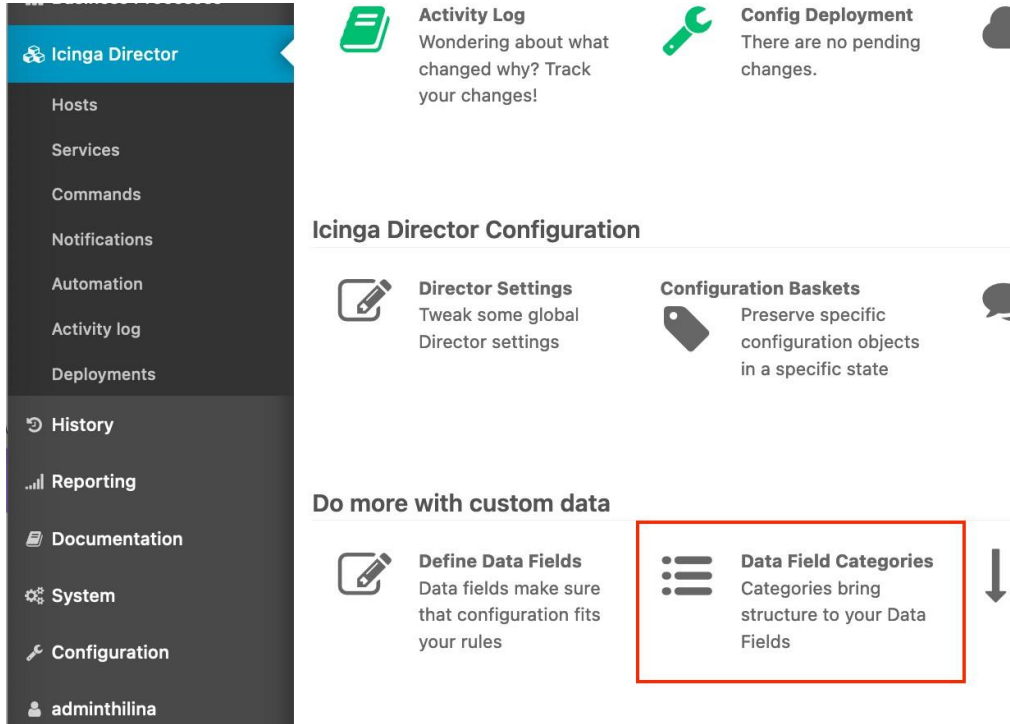
Add a Data Category as below.

Then go to Icinga Director --> `Define Data Fields`

Create two new Data Fields as follows:

- Token Code

Field name*	tokencode
	The unique name of the field. This will be the name of the custom variable in the rendered Icinga configuration.
Caption*	Token Code
Description	
Data Field Category	Telegram Specific Data
Data type*	String
Visibility*	Visible

- ◆ Chat ID

Field name*	chat_id
	The unique name of the field. This will be the name of the custom variable in the rendered Icinga configuration.
Caption*	Chat ID
Description	
Data Field Category	Telegram Specific Data
Data type*	Number

Telegram Notification Templates

Create following templates with the given data.

- ◆ Telegram Host Notification Template

Add new Icinga Notification template

▼ **Main properties**

Notification Template*	Telegram-Host-Template
Imports	Add a new one...
Users	– add more –
User groups	– add more –
Notification command	Host Alarm By Telegram
Notification interval	3600
Time period	– please choose –
First notification delay	
Last notification	10d

▼ **State and transition type filters**

States	– add more –
Transition types	– add more –

▼ **Zone settings**

Cluster Zone	– please choose –

Add

- Include custom fields we created earlier. Goto the Fields tab of the template and enter chat_id and tockencode as mandatory fields

Notification	Preview	History	Fields	↻

Custom fields: Telegram-Host-Template   🔍 Search...

Custom data fields allow you to easily fill custom variables with meaningful data. It's perfectly lega to override inherited fields. You may for example want to allow "network devices" specifying any string for vars.snmp_community, but restrict "customer routers" to a specific set, shown as a dropdown.

Field*	Chat ID (chat_id)
Mandatory*	Mandatory
	Whether this field should be mandatory

Add

Custom fields: Telegram-Host-Template   🔍 Search...

> Custom data fields allow you to easily fill custom variables with meaningful data. It's perfectly legal to override inherited fields. You may for example want to allow "network devices" specifying any string for vars.snmp_community, but restrict "customer routers" to a specific set, shown as a dropdown.

Field*	Token Code (tokencode)
Mandatory*	Mandatory
	Whether this field should be mandatory

Add

Label	Field name	Mandatory
Chat ID	chat_id	y

- **Telegram Service Notification Template**

Add new Icinga Notification template

▼ Main properties

Notification Template*	Telegram-Service-Template
Imports	Add a new one...
Users	- add more -
User groups	- add more -
Notification command	Service Alarm By Telegram
Notification interval	3600
Time period	- please choose -
First notification delay	
Last notification	10d

▼ State and transition type filters

States	- add more -
Transition types	- add more -

▼ Zone settings

Cluster Zone	- please choose -

Add

- Goto the Fields tab of the template and enter `chat_id` and `tockencode` as mandatory fields based on previous guidelines.

Create Notifications to Telegram

In this setup, we shall create two notifications setups for Hosts and Services respectively. When assigning notifications we should select a user rather than a user group to avoid multiple duplicates of notifications.

- Telegram-Host-Notification

Add new Icinga Notification

▼ Main properties

Notification*	Telegram-Host-Notification
Imports*	Telegram-Host-Template
Users	thilina
User groups	- add more -
Apply to*	Hosts
Notification interval	3600 (inherited from "Telegram-Host-Template")
Time period	- please choose -
First notification delay	
Last notification	864000 (inherited from "Telegram-Host-Template")
Disabled	No

▼ Assign where

host.enable_notifications	is true (or set)

▼ Telegram Specific Data

Chat ID*	-00000004440404030
Token Code*	32242323:fweff23243wedw24f24f34fe

▼ State and transition type filters

States	Up Down
Transition types	Problem Recovery Custom Acknowledgement

Add

- Telegram-Service-Notification

Add new Icinga Notification

▼ Main properties

Notification*	Telegram-Service-Notification
Imports*	Telegram-Service-Template
Users	thilina
User groups	- add more -
Apply to*	Services
Notification interval	3600 (inherited from "Telegram-Service-Template")
Time period	- please choose -
First notification delay	
Last notification	864000 (inherited from "Telegram-Service-Template")
Disabled	No

▼ Assign where

service.enable_notifications	is true (or set)

▼ Telegram Specific Data

Chat ID*	233223232
Token Code*	23231312:fnhbgkjhfvjgbejvjv

▼ State and transition type filters

States	OK	Warning	Critical
	Unknown		
Transition types	Problem	Recovery	Custom
	Acknowledgement		

Add

- Finally, Deploy the changes you did.