

Configure a Whatsapp alert with Pandora FMS

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With Pandora FMS is possible configure an alert that send a Whatsapp to a mobile phone using a unofficial API named WhatsAPI (<https://github.com/aesedepece/WhatsAPI>).

1 Using the script

1.1 Unpackage the code

The package contains a file named “send_whatsapp.php” and a directorios “whatsapi” and “yowsup”.

We need to copy it in the same path. In example /tmp/send_whatsapp

```
zarzuelo@zarzuelo-station:/tmp/send_whatsapp/send_whatsapp$ ls
send_whatsapp.php  whatsapi  yowsup
```

1.2 Retrieve auth password

The first step to use the script is obtain the password from the Whatsapp servers using Yowsup project.

Is a python project, so we will need to have installed python and all the necessary dependences in our system

In the yowsup/src folder, there are all the necessary to get it. First we must fill the config.example file with our phone number (with country prefix);

```
cc=34
phone=34666123456
id=
password=
```

Then we execute the Yowsup script to receive a confirmation code in our phone (by SMS or Voice message):

```
python ./yowsup-cli -c config.example -d --requestcode voice
python ./yowsup-cli -c config.example -d --requestcode sms
```

In few moments we will receive a 6 digit confirmation code in our phone. We use it to request the authentication password:

```
python ./yowsup-cli -c config.example -d -R 123456
```

We receive a base64 coded password that is all we need to use the WhatsAPI.

1.3 Executing the script manually

A simple script in PHP has been created to accept parameters via console and be executed in the following way:

Syntax:

```
php5 send_whatsapp.php [phone_number_source] [password] [phone_number_target]
[message]
```

Example:

php5 send_whatsapp.php 34666123456 cGFzc3dvcmQ= 3466654321 "What's up Whatsapp!"

NOTES:

- The Phone numbers have the country code as prefix
- The script depends on the API used and it, on the Whatsapp messenger servers. If Whatshapp changes their systems, is possible that the script doesn't work.

2 Configuring the alert

We're going to show how configure an alert on Pandora FMS to send a Whatsapp message step by step

2.1 Configure a command

We configure a command in Pandora FMS with the 2 first parameters of the script (number and imei of the source phone) in the field 1, the target phone number in the field 2 and the message in the field 3.

Name	Whatsapp message
Command	php5 /tmp/send_whatsapp/send_whatsapp.php _field1_ _field2_ " _field3_ "
Description	<p>Send a Whatsapp message between two phones with Whatsapp Messenger.</p> <p>_field1_ : Source phone number (with the country code as prefix) and this phone IMEI number. Example: "34666123456 84969883409386023"</p> <p>_field2_ : Target phone number (with the country code as prefix). Example: "34666654321"</p> <p>_field3_ : Message. Example: "The system is under minimum free disk space"</p>

2.2 Configure an action

Then we will configure an alert to send a Whatsapp message to, in example, the mobile phone of the support department.

We will fill the fields 1 and 2, with the phone number and IMEI of the source mobile and the target phone number (in this case the phone of support).

In this way, when we configure a template, we only have to fill the field 3 with the desired message.

Name	Whatsapp to support dept.
Group	All
	Whatsapp message Create Command
Command	<p>Send a Whatsapp message between two phones with Whatsapp Messenger.</p> <p>_field1_ : Source phone number (with the country code as prefix) and this phone IMEI number. Example: "34666123456 84969883409386023"</p> <p>_field2_ : Target phone number (with the country code as prefix). Example: "34666654321"</p> <p>_field3_ : Message. Example: "The system is under minimum free disk space"</p>
Threshold	0 seconds
Field 1	34666123456 849698834093860
Field 2	34666654321
Field 3	
Command preview	php5 /tmp/send_whatsapp/send_whatsapp 34666123456 84969883409386023 34666654321

2.3 Configure a template

Now we configure an alert template with the desired condition. In this case, we will check a module with the free disk % and our alert will be fired when it be less than 20%.

The screenshot shows the 'Step 1 » Conditions' tab of an alert configuration interface. The 'Name' field is 'Free Space Issue' and the 'Group' is 'All'. The 'Description' field contains 'Alert that warns about problems in the free disk space'. The 'Priority' is set to 'Informational'. The 'Condition type' is 'Min.'. The 'Min.' value is '20'. A tooltip at the bottom left states 'The alert would fire when the value is below 20'. A 'Next' button is at the bottom right.

As we said, we fill the field 3 (the 2 first fields will be taken from action) with the desired message. In this case “The disk space is under 20%”.

The screenshot shows the 'Step 2 » Firing' tab. The 'Days of week' are set to 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', and 'Sun'. The 'Time from' is '12:00' and the 'Time to' is '12:00'. The 'Time threshold' is '1 day'. The 'Min. number of alerts' is '0' and the 'Max. number of alerts' is '1'. The 'Field 3' contains the message 'The disk space is under 20%'. The 'Default action' is 'Whatsapp to support dept.'.

Finally we can set a recovery message to receive a message when the alert will be recovered. In this case “The free space disk is over 20% again”.

The field 2 will be empty, but if we want, we can set it with a different phone number where receive the recovery whatsapps.

The screenshot shows the 'Step 3 » Recovery' tab. The 'Alert recovery' is set to 'Enabled'. The 'Field 2' is empty. The 'Field 3' contains the message 'The free space disk is over 20% again'.

3 Creating the alert

The last step is create the alert in the desired module, and when the condition will be matched (the module value been less than 20) the alert will be fired sending to the configured phone number a whatsapp message with the text.

In the same way a recovery message will be send to the phone device if is configured.