

Customizações

Duplicati

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Duplicati Monitor

Link: <https://github.com/RafaMunoz/duplicati-monitor> git clone

<https://github.com/RafaMunoz/duplicati-monitor.git>

Duplicati Monitor

Duplicati Monitor is a docker-packaged monitoring solution for Duplicati.

It allows you to control the status of your backups and statistics for each report and notifies you by any means supported by **Apprise**. It is meant to be self-hosted and powered by docker.

Quick Start

Notifications

To send notifications and satisfy the end user, it has been implemented with the Apprise library, which allows you to send a notification to almost all the most popular notification services available today, such as: Telegram, Discord, Slack, Amazon SNS, Gotify, etc.

You can check all the services available in the [official documentation](#).

Templates

You can create your own templates to receive the information you exactly need.

By default we use the following two:

```
# Succes backup
[[ ]] <Extra.backup-name>

# Error backup
```

[[]] <Extra.backup-name>

You can create your own templates in a simple way. You only have to use the symbols `<` and `>` to delimit the fields and separating keys with dots `.` to send along with the message that you want.

In the [docs/examples_report](#) folder of this repository you have two examples of the JSON reports that Duplicati sends and in which you can see the fields that compose it.

For example, with the following template, the result shown in the telegram image would be obtained.

```
[[ ]] Backup: <Extra.backup-name>\n - Examined Files: <Data.ExaminedFiles>\n - Duration: <Data.Duration>\n - Status: *<Data.TestResults.ParsedResult>*
```

telegram-example-notication

Environment Variables

ENVIRONMENT VARIABLE	TYPE	DEFAULT	DESCRIPTION
URI_NOTIFICATION	required		URI in Apprise format where the notifications will be sent.
TEMPLATE_SUCCESS	opcional	[[]] <Extra.backup-name>	Message template to be sent when the backup is successful.
TEMPLATE_ERROR	opcional	[[]] <Extra.backup-name>	Message template that will be sent when the backup is executed in an erroneous way.
PORT	opcional	8000	Listening port on which the service is set up to receive the reports.

Docker Run

To start the container you can do it with the following command.

```
docker run -d --name=duplicati-monitor -p 8000:8000 -e  
URI_NOTIFICATION=tgram://<TOKEN_TELEGRAM_BOT>/<CHANEL_ID>/?format=markdown rafa93m/duplicati-  
monitor
```

Or you can also use the following docker compose.

```
version: "3"
services:
  duplicati-monitor:
    container_name: duplicati-monitor
    image: rafa93m/duplicati-monitor
    ports:
      - 8000:8000
    environment:
      URI_NOTIFICATION: "tgram://<TOKEN_TELEGRAM_BOT>/<CHANEL_ID>/?format=markdown"
      TEMPLATE_SUCCESS: "[[ ]] Backup: <Extra.backup-name>"
      TEMPLATE_ERROR: "[[ ]] Backup <Extra.backup-name> failed [[ ]]"
    restart: unless-stopped
```

Setup Duplicati

Add theses two options for each backup you want to monitor:

- **send-http-result-output-format:** json
- **send-http-url:** http://**IP_ADDRESS:PORT**/report

advanced-options

Duplicati Dashboard

Link: https://github.com/fabien-github/duplicati_dashboard?tab=readme-ov-file#demo

git clone https://github.com/fabien-github/duplicati_dashboard.git

Duplicati Dashboard is a monitoring solution for Duplicati.

It allows you to monitor your backups status, collects stats for each reports and alerts you by email when a backup fails. It is intended to be self-hosted and works with docker-compose.

Everything is already pre-configured and ready to be deployed.

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Demo



“ The right side of the video is not integrated in the dashboard. You can't control your backup with it.

Quick Start

Running with docker-compose

```
git clone https://github.com/fabien-github/duplicati_dashboard.git
cd duplicati_dashboard
docker-compose up -d
```

Setup Duplicati

Add theses two options for each backup you want to monitor:

- **send-http-result-output-format:** json
- **send-http-url:** <http://localhost:8080>



“ This assumes that your Duplicati instance is on the same host as your Duplicati Dashboard.

Connect to your dashboard

<http://localhost:3000>

Login: Password:

“ For email alerting, you need to configure a SMTP relay. See [Configuration > Env file](#)

Configuration

Env file

The file `config.env` is used to configure some options. It will be shared between the 3 containers.

Only use this default configuration for testing purposes.

Influxdb variable will create and setup the database only on the first startup.

Variables	Default	Description
DOCKER_INFLUXDB_INIT_MODE	setup	Automatically bootstrap the system
DOCKER_INFLUXDB_INIT_USERNAME	telegraf_user	Influxdb superadmin user
DOCKER_INFLUXDB_INIT_PASSWORD	telegraf_password	Influxdb superadmin password
DOCKER_INFLUXDB_INIT_ORG	telegraf_org	Influxdb Organization (used by influxdb / telegraf / grafana)
DOCKER_INFLUXDB_INIT_BUCKET	telegraf	Influxdb bucket to store reports (used by influxdb / telegraf / grafana)
DOCKER_INFLUXDB_INIT_ADMIN_TOKEN	telegraf_token	Influxdb superadmin token (used by influxdb / telegraf / grafana)
DOCKER_INFLUXDB_INIT_RETENTION		Influxdb data retention, default will retain forever
INFLUXD_REPORTING_DISABLED	false	Disable InfluxData telemetry
TELEGRAF_LISTENER_PORT	8080	Port used by http listener v2 input, endpoint for the reports sent by Duplicati
TELEGRAF_LISTENER_PATH	/	Path to listen to
GF_SECURITY_ADMIN_USER	admin	Grafana superadmin user

Variables	Default	Description
GF_SECURITY_ADMIN_PASSWORD	password	Grafana superadmin password
GF_SERVER_ROOT_URL	http://localhost:3000	Grafana URL, used in some templates like email notifications
GF_DASHBOARDS_DEFAULT_HOME_DASHBOARD_PATH	/etc/grafana/provisioning/dashboards/duplicati_dashboard.json	Force Duplicati dashboard by default on home page
GF_SMTP_ENABLED	false	<u>Set to true for email notifications</u>
GF_SMTP_HOST	localhost:25	SMTP relay server. [host]:[port]
GF_SMTP_FROM_NAME	Grafana	Name of the email sender
GF_SMTP_USER		In case of SMTP auth
GF_SMTP_PASSWORD		In case of SMTP auth
GF_SMTP_FROM_ADDRESS	admin@grafana.localhost	Address used when sending out emails
GF_SMTP_EHLO_IDENTITY	\${HOSTNAME}	Name to be used as client identity for EHLO in SMTP dialog (Default will be the container ID)
GF_SMTP_STARTTLS_POLICY		"OpportunisticStartTLS", "MandatoryStartTLS", "NoStartTLS"
NOTIFIER_EMAIL_RECIPIENT	example@example.com	Recipients for email notification (separated by a semicolon)
NOTIFIER_EMAIL_REMINDER_ENABLE	true	Re-send an email if alerts are still active
NOTIFIER_EMAIL_REMINDER_FREQUENCY	2h	Delay between email reminders

Notes

Grafana configuration locked

The dashboard is locked by the Grafana provisioning system. You can't edit the datasource, the dashboard or the alert notifier from the UI. You will need to copy the dashboard or disable the provisioning configuration.

Dashboard path: `./grafana/provisioning/dashboards/duplicati_dashboard.json`

The idea is to keep the stack easy to deploy for everyone without investing time to learn Grafana configuration.

Feel free to fork the project or directly edit files on your own.

More information [here](#).

Backup over more than 30 days rotation

- Grafana will discover your backups name from the reports but only over the last 90 days. So if your backups are scheduled for more than 90 days, you will need to edit the request of the variable `Backup` in the dashboard configuration:

```
from(bucket: v.defaultBucket)
  |> range(start: -90d)
  |> filter(fn: (r) => true)
  |> toString()
  |> group(columns: ["backup-name"])
  |> distinct(column: "backup-name")
  |> keep(columns: ["_value"])
```

- Last reported status / Last reported variations / Alerting graph are based over the past 30 days. You will need to adapt each panel requests if your backups are scheduled over more than 30 days.

```
import "influxdata/influxdb/schema"

from(bucket: v.defaultBucket)
  |> range(start: -30d)
  ...
```

- In [v2](#), alerts have their own provisioning file and query range can be edited [here](#).

Alerting graph

The section "Alerting graph" is only used to trigger an alert when a backup fails. This is due to the lack of grafana alert support on other panel type. [#6983](#)

Backups status will be checked every minutes. An alert will be triggered after a pending status of 10min. Same delays are used on the recovery.

Warning reports don't trigger an alert.

Deleting removed backup data

After getting inside the influxdb container:

```
influx delete \  
  --org telegraf_org \  
  --bucket telegraf \  
  --token "telegraf_token" \  
  --start 1970-01-01T00:00:00Z \  
  --stop $(date +"%Y-%m-%dT%H:%M:%SZ") \  
  --predicate '_measurement="duplicati" AND "backup-name"="backup_to_delete"'
```

Docker-compose

- **Telegraf:** Receive JSON reports from Duplicati.
- **Influxdb:** Store reports converted by Telegraf.
- **Grafana:** Requests Influxdb to generate dashboard and alerts.

Telegraf endpoint provides a limited [HTTP authentication](#).

The configuration file is located here : `./telegraf/telegraf.conf`

Feel free to add a proxy like traefik or nginx to protect the stack on an unsecure network. (TLS, IP Restrictions, ...)

Other informations

- Not sure of the scalability, requests to the database are not efficient. Timeseries databases are not really adapted for this kind of data. This is mainly due to the nested and uneven json format from the reports and the variation time between reports.
- Features are limited directly by the stack itself. For example, it's nearly impossible to add a management system for the backups.
- This project has no link with the development of Duplicati and his team.

License

Distributed under the GNU General Public License v3.0 License. See [LICENSE](#) for more information.

Duplicati Dashboard2

Link: <https://github.com/wchorski/duplicati-dashboard> git clone

<https://github.com/wchorski/duplicati-dashboard.git>

A NodeJS based server that collects JSON data from Duplicati backup logs

☐ Tech

Frontend: NextJS

API: NextJS

Database: InfluxDB

[!warning] Backups sharing the same name will cause issues. The backup's name must be unique across all Duplicati instances, it will be used as an ID for logging. MUST BE URL FRIENDLY example: "Laptop--Home_Folder_Backup", "Desktop--Home_Folder_Backup" is a good naming convention.

Usecase

Initally this was just some middle ware that serves as an endpoint for JSON friendly monitoring apps, but I also built a simple UI so it could be used as a standalone app.

Duplicati Setup

you can either add these settings for the globally or per backup in the Advanced options

```
send-http-result-output-format = json  
send-http-url = "http://APPSDOMAIN/api/backups"
```

API

Here is a breakdown of what endpoints and search parameters that can be passed through.

URL Breakdown

http://APPDOMAIN/backups/BACKUP_ID?start=-5h&first=true

BACKUP_ID => the id (or name) of the backup saved
stuff after the "?" search query sets range of time of pulled data

start => how far back to you want to start pulling data i.e.

-40d 40 days ago [the default]

-5h 5 hours ago

-60m 60 minutes ago

1999-12-31T00:00:00 starting on December 31st, 1999

1694117521 starting on this UNIX time (seconds)

stop => the end of the range

now() => my current time [the default]

all the other examples above as long as the date is after the start

both query parameters can be omitted

last => set to true if you'd like the last recorded point in the table

can also use the http://localhost:3000/api/backups/last/BACKUP_ID endpoint for cleaner GET (this endpoint also takes start and stop query parameters)

first => same as last but returns the first point of recorded data within the range

[!note] make sure relative dates have a negative i.e. -5h as your are looking back in time. Positive time values will cause errors

Examples

query url

all backup stats in database <http://APPDOMAIN/backups>

single backup stats http://APPDOMAIN/backups/BACKUP_ID

last recorded backup stat http://APPDOMAIN/backups/last/BACKUP_ID

same as above http://APPDOMAIN/backups/BACKUP_ID?last=true

last recorded backup stat in the last 5 hours http://APPDOMAIN/backups/last/BACKUP_ID?start=-5h

⚙️ Development

```
git clone https://github.com/wchorski/duplicati-dashboard.git && cd duplicati-dashboard
```

```
cp .env.template .env.local
```

```
set up InfluxDB instance
```

```
get InfluxDB API Token for .env.local
```

```
yarn install
```

```
yarn dev
```

📦 Production

```
git clone https://github.com/wchorski/duplicati-dashboard.git && cd duplicati-dashboard
```

```
cp .env.template .env
```

```
the INFLUX_TOKEN in .env should be a long ~88 character string
```

```
docker compose up -d
```

Home Assistant

rest:

- authentication: basic

username: "admin"

password: "password"

scan_interval: 86400

resource: http://APPDOMAIN.lan/api/backups/last/DUPLICATI_ID

sensor:

- name: "duplicati-DUPLICATI_ID-status"

```
value_template: "{{ value_json.status }}"  
- name: "duplicati-DUPLICATI_ID-time"  
value_template: >  
  {% set thistime = value_json.time %}  
  {{ as_timestamp(thistime) | timestamp_custom("%Y %M, %d %H:%M") }}
```

#Todo

- create dynamic nav based on unique duplicati_ids from database
- add FAQ as a page inside the app
- mobile friendly (almost there)
- graph trends in app
- Home Assistant Template sensor
- Don't be lazy and figure out Types in TableClient.tsx component
- get real data for screenshots
- why is bg tile image weird when scrolling on mobile?
- human readable bytes formatter (gb tb)
- human readable duration formatter