NYX Modules

NYX Team

CONTENTS:

1		odules 1			
	1.1	NYX REPORT SCHEDULER MODULE			
	1.2	VERSION HISTORY			
	1.3	NYX REPORT RUNNER MODULE			
	1.4	VERSION HISTORY			
	1.5	NYX FORMAT CONVERTER			
	1.6	NYX XLS IMPORTER			
	1.7	VERSION HISTORY			
	1.8	NYX LAMBDA			
	1.9	VERSION HISTORY			
Рy	thon I	Module Index			
Inc	dex	7			

CHAPTER

ONE

MODULES

- · genindex
- · modindex
- · search

1.1 NYX REPORT SCHEDULER MODULE

Trigger periodic jobs that are executed by the Report Runner Module. Jobs are push in the queue/queue/NYX_REPORT_STEP1.

1.2 VERSION HISTORY

- 19 Jun 2019 0.0.3 AMA Fix an UTC issue
- 09 Jul 2019 0.0.4 AMA Mail subjects and attachments can be customized
- 01 Apr 2020 1.0.1 **AMA** Use cron to compute next runs

```
nyx_reportscheduler.checkTasks()
```

Called periodically in order to check if a task must be executed.

nyx_reportscheduler.computeDefaultValue(duetime, formula)

Computes a time formula based on the given date.

Parameters

- **duetime** The generation date that must be used by the formual.
- message The formulas as a string. Example: (now-1d)

nyx_reportscheduler.execute_report (duetime, task)

Executes a task for the given time.

Parameters

- **duetime** The generation date that must be used by the report.
- message The task that describes the job.

nyx_reportscheduler.resolveDateString(name, adate)

Resolves a string formatted as follows: "Myfile-\${DATE:%d%B%Y:now-30d}-biac" Into: Myfile-09July2019-biac

1.3 NYX REPORT RUNNER MODULE

Generates reports and store them in a local directory. The jobs are received via the NYX_REPORT_STEP2 queue from the node red workflow. Jobs sent by the report scheduler are forwarded to /queue/NYX_REPORT_STEP3 and captured by the report scheduler workflow of node red. PDE

1.3.1 Sends:

/queue/NYX_REPORT_STEP3

1.3.2 Listens to:

/queue/NYX_REPORT_STEP2

1.4 VERSION HISTORY

- 06 Aug 2019 1.1.0 AMA Build with version 1.1.0.0 of opendistro JDBC
- 03 Sep 2019 1.2.0 AMA elastic-helper dependency added
- 22 Nov 2019 1.3.1 AMA Compatible with ES 7. Added notebook reporting.
- 28 Nov 2019 1.4.0 AMA Packaged with libre office 6.3
- 02 Dec 2019 1.5.0 AMA Pandas updated to 0.24.1
- 13 Jan 2020 1.5.1 AMA Notebook builder updated
- 22 Jan 2020 1.6.0 AMA Simple notebook mode added
- 04 Feb 2020 1.6.4 AMA Better nyx_build_report file
- 11 Feb 2020 1.6.5 AMA Built with latest eshelper 1.2.0
- 05 Mar 2020 1.7.1 AMA Includes demo reports
- 09 Mar 2020 1.7.2 **AMA** Chmod added after each copy of a demo file
- 20 Mar 2020 1.8.0 AMA Jasper JDBC mode added
- 26 Mar 2020 1.8.6 **AMA** Better localization of date parameters
- 26 Mar 2020 1.9.0 AMA datetime imported by default
- 29 Apr 2020 1.9.1 **AMA** Linked with jasper 6.12

 $\verb|nyx_reportrunner.messageReceivedReport| (\textit{destination}, \textit{message}, \textit{headers})|$

Generates a report and store it locally on the drive. There are two types of report:

JASPER

The report is generated via a jasper creator java executable. Parameters are pushed to the report.

PYTHON

The report is generated via a python command line.

Parameters

• **destination** – The incoming message queue or topic.

2 Chapter 1. Modules

- message A json formatted text that represent the job.
- headers The message headers.

1.5 NYX FORMAT CONVERTER

Convert a file into another format using open office. The file to convert must be sent to the queue: /queue/NYX_CONVERTER encoded in base 64.

Warning: Converting docx complex document to pdf can be tricky for open office and can give poor results.

1.5.1 Payload

```
"originalformat":"xls",
"targetformat":"csv",
"destination":"/queue/CONVERTED",
"data":"msg.payload"}
```

1.6 NYX XLS IMPORTER

Listens to the queue FILE_UPLOAD_XLS for an base64 encoded XLS file and saves it as an elasticsearch collection. If the column _index is no specified, the name of the inded is extracted from the Excel file name. (without the extension) A field mapping is created if it does not already exists. (Using the Excel column types)

1.6.1 Sends:

• /topic/NYX_LOG

1.6.2 Listens to:

• /queue/FILE_UPLOAD_XLS

1.7 VERSION HISTORY

• 25 Oct 2019 0.0.4 AMA First version

1.8 NYX LAMBDA

Runs code stored in notebooks using two triggers:

- Interval
- · Message received

4

Optionaly a lambda can be executed via a COMMAND using the following message on the topic: NYX_LAMBDA_COMMAND

```
{ "runner":5, "action":"execute", "restapi":"myrestapi", "body":{"a":1,"b":2} }
```

1.9 VERSION HISTORY

- 27 Nov 2019 1.0.16 AMA First version
- 30 Nov 2019 1.0.17 AMA Common Section added
- 11 Feb 2020 1.1.0 AMA Linked with elastic helper that destroys scroll ids
- 20 Feb 2020 1.2.7 **AMA** Better logs
- 21 Feb 2020 1.3.0 AMA Result_icon and type_icon added
- 24 Feb 2020 1.3.3 **AMA** Better compile error log
- 25 Feb 2020 1.3.4 AMA Success green icon changed to green
- 26 Feb 2020 1.3.23 AMA Input saved + lambda commands
- 02 Mar 2020 1.3.27 AMA Fixed outputs
- 03 Mar 2020 1.3.30 AMA Fixed restart issues
- 09 Mar 2020 1.3.31 AMA CRON keyword added
- 18 Mar 2020 1.3.33 AMA Better lambda supervision
- 18 Mar 2020 1.3.34 AMA Added ODBC drivers
- 19 Mar 2020 1.4.0 AMA Fix startup sequence when requirements are changed.

Function name added to input folder. Fix a bug that created ghost functions if there is a syntax error in the lambda. * 24 Mar 2020 1.4.1 **AMA** SAVEINPUT parameter added * 24 Mar 2020 1.4.2 **AMA** Better error logs * 03 Apr 2020 1.4.3 **AMA** Fix cron localization * 20 Apr 2020 1.4.4 **AMA** Locales added in Dcke rfile * 12 May 2020 1.5.1 **AMA** Rest API allowed * 20 May 2020 1.5.2 **AMA** Use new elastic_helper * 22 Jun 2020 1.5.3 **AMA** Fix a bug that could prevent the cron jobs from being executed after an Elastic Search failure

Chapter 1. Modules

PYTHON MODULE INDEX

n

nyx_formatconverter, 3
nyx_lambda, 3
nyx_reportrunner, 1
nyx_reportscheduler, 1
nyx_xlsimporter, 3

6 Python Module Index

INDEX

```
C
checkTasks() (in module nyx_reportscheduler), 1
computeDefaultValue()
                               (in
                                        module
        nyx_reportscheduler), 1
Ε
execute_report()
                            (in
                                        module
        nyx_reportscheduler), 1
M
messageReceivedReport()
                                 (in
                                        module
       nyx_reportrunner), 2
Ν
nyx_formatconverter (module), 3
nyx_lambda (module), 3
nyx_reportrunner (module), 1
nyx_reportscheduler (module), 1
nyx_xlsimporter (module), 3
R
resolveDateString()
                              (in
                                        module
       nyx_reportscheduler), 1
```