

fn-scheduler Functions for IBM Resilient

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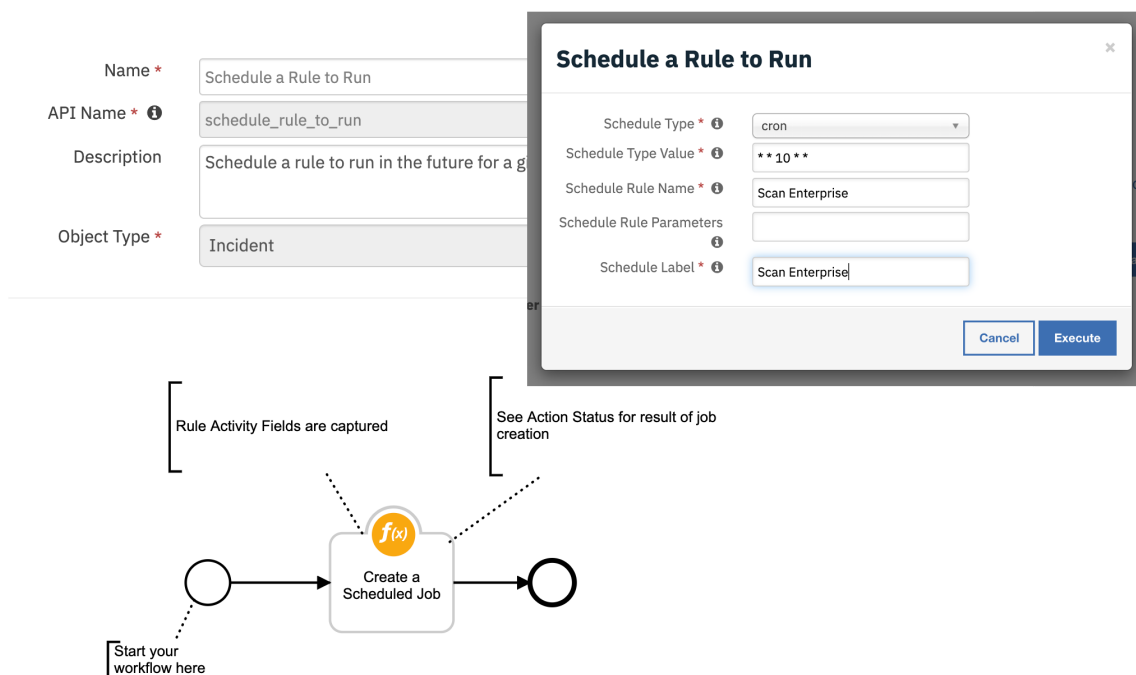
Release Notes

v1.0.0

- Initial Release

Overview

Resilient Circuits Components for fn_scheduler



This package of functions allows an enterprise to schedule a rule to run in the future associated with a incident, task, artifact, and datatable. Times to run can be specified in the following ways:

1. cron (ex. `* 0 * * *` for every night at midnight)
2. interval (ex. `5h` for every 5 hours)
3. date (ex. `2019/10/23 12:00:00`)
4. delta (ex. `1h` for one hour in the future)

Schedule rules using **cron** and **interval** are recurring whereas **date** and **delta** are single event schedules. Scheduled rules are persisted so that restarts of resilient-circuits will resume already scheduled rules.

Functions available include:

1. Scheduling a rule
2. Listing scheduled rules
3. Removing a scheduled rule

Requirements

- Resilient platform >= **v33.0.5087**
- An Integration Server running **resilient_circuits>=30.0.0**
 - To set up an Integration Server see: <https://ibm.biz/res-int-server-guide>

Installation

- Download the **fn_scheduler.zip**.
- Copy the **.zip** to your Integration Server and SSH into it.
- **Unzip** the package:

```
$ unzip fn_scheduler-x.x.x.zip
```

- **Change Directory** into the unzipped directory:

```
$ cd fn_scheduler-x.x.x
```

- **Install** the package:

```
$ pip install fn_scheduler-x.x.x.tar.gz
```

- Import the **configurations** into your app.config file:

```
$ resilient-circuits config -u
```

- Import the fn_scheduler **customizations** into the Resilient platform:

```
$ resilient-circuits customize -y -l fn-scheduler
```

- Open the config file, scroll to the bottom and edit your fn_scheduler configurations:

```
$ nano ~/.resilient/app.config
```

Config	Required	Example	Description
timezone	Yes	utc	Specify the timezone (ex. America/New_York) which scheduled rules should follow
thread_max	Yes	20	Number of threads which can run at the same. Typically, triggered rules run for a very short time to kick off a Resilient rule.
datastore_dir	Yes	``	Specify a data path and file name for the sqlite persistent datafile (ex. /path/to/scheduler.sqlite)

- **Save** and **Close** the app.config file.
- [Optional]: Run selftest to test the Integration you configured:

```
$ resilient-circuits selftest -l fn-scheduler
```

- **Run** resilient-circuits or restart the Service on Windows/Linux:

```
$ resilient-circuits run
```

Uninstall

- SSH into your Integration Server.
- **Uninstall** the package:

```
$ pip uninstall fn-scheduler
```

- Open the config file, scroll to the [fn_scheduler] section and remove the section or prefix **#** to comment out the section.
- **Save** and **Close** the app.config file.

Troubleshooting

There are several ways to verify the successful operation of a function.

Resilient Action Status

- When viewing an incident, use the Actions menu to view **Action Status**.
- By default, pending and errors are displayed.
- Modify the filter for actions to also show Completed actions.
- Clicking on an action displays additional information on the progress made or what error occurred.

Resilient Scripting Log

- A separate log file is available to review scripting errors.
- This is useful when issues occur in the pre-processing or post-processing scripts.
- The default location for this log file is: `/var/log/resilient-scripting/resilient-scripting.log`.

Resilient Logs

- By default, Resilient logs are retained at `/usr/share/co3/logs`.
- The `client.log` may contain additional information regarding the execution of functions.

Resilient-Circuits

- The log is controlled in the `.resilient/app.config` file under the section `[resilient]` and the property `logdir`.
- The default file name is `app.log`.
- Each function will create progress information.
- Failures will show up as errors and may contain python trace statements.

Support

Name	Version	Author	Support URL
fn_scheduler	1.0.0	IBM	support@resilientsystems.com