

User Guide: fn_scheduler_v1.0.0

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Key Features

This package of functions allows an enterprise to schedule a rule to run in the future associated with a incident, task, artifact, and datatable. Schedule 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, 2d for every 2 days. Valid values are s(econd), m(inute), h(our), d(ay), w(eek), M(onth))
3. date (ex. 2019/10/23 12:00:00 or 2019-10-23 12:00:00)
4. delta (ex. 1h for one hour in the future, the same values as interval are supported)

Scheduled 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:

- Create a scheduled rule
 - List scheduled rule
 - Remove a scheduled rule
-

Function - Create a Scheduled Rule

Schedule a rule to run on a schedule. This rule will be executed for a given incident, artifact, task, etc.

Name *

API Name *

Description

Object Type *

Schedule a Rule to Run

Schedule Type *

Schedule Type Value *

Schedule Rule Name *

Schedule Rule Parameters

Schedule Label *

- Inputs:
- Outputs:
- Example Pre-Process Script:
- Example Post-Process Script:

Function - List Scheduled Rules

List the schedules presently defined

Scheduler Jobs

Reported Date	Schedule Label	Incident Id	Rule	Schedule Type	Schedule	Status	
Thu Oct 03 14:09:12 UTC 2019	demo	2213	Demo Scheduler	date	Oct 03 2019 10:10AM	Active	...

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- Inputs:
- Outputs:
- Example Pre-Process Script:
- Example Post-Process Script:

Function - Remove a Scheduled Rule

Stop a schedule

Scheduler Jobs

Reported Date	Schedule Label	Incident Id	Rule	Schedule Type	Schedule	Status	
Thu Oct 03 14:09:12 UTC 2019	demo	2213	Demo Scheduler	date	Oct 03 2019 10:10AM	Active	...

Displaying 1 - 1 of 1

Remove a Scheduled Job

- Inputs:
- Outputs:

- ▶ Example Pre-Process Script:
- ▶ Example Post-Process Script:

Rules

Rule Name	Object	Workflow Triggered
List Scheduled Rules	incident	<code>list_schedules</code>
Remove a Scheduled Rule	scheduler_jobs	<code>remove_a_schedule</code>
Schedule a Rule to Run	incident	<code>schedule_rule_to_run</code>
Schedule a Rule to Run - Artifact	artifact	<code>schedule_a_rule_to_run_artifact</code>
Schedule a Rule to Run - Task	task	<code>schedule_a_rule_to_run__task</code>

Considerations

Rules

- Rules must be enabled to be scheduled and are again checked when the scheduled rule is triggered.
- Rules scheduled must match the invoking Rule. For instance, to create a scheduled artifact rule, use the rule `Create a Schedule – Artifact`.
- Disabled rules will not execute but the scheduled rule will continue to trigger.
- Rules triggered on closed incidents will not run and the scheduled rule will be removed.
- Incident notes are created each time a scheduled rule is excuted documenting the rule invocation.
- Scheduled rules will not show up under Action Status and Workflow Status.

Datatables

- Datatable scheduled rules are not part of this package, but can be easily created for a specific Datatable.
- Datatable scheduled rules cannot currently reference the invoking datatable row in the pre-processing script. However, a rule's activity field can be defined to prompt for it.

Persistence of Scheduled Rules

- Labels for scheduled rules need to be unique. Attempting to create a duplicate scheduled rule label will fail.
- Sqlite is used to persist scheduled rules. Restarting resilient-circuits will continue with the scheduled rules already defined.

Integrations

- A function executed from a scheduled rule is free to perform any operation against Resilient. Even through a scheduled rule runs from a specific Incident, Resilient API calls

can collect and operate on other incidents. For example, a scheduled rule can call a function which queries Resilient for all open tasks with due dates to review any overdue.