

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 *

Schedule a Rule to Run

API Name * ⓘ

schedule_rule_to_run

Description

Schedule a rule to run in the future for a g

Object Type *

Incident

Schedule a Rule to Run

Schedule Type * ⓘ

cron

Schedule Type Value * ⓘ

** 10 **

Schedule Rule Name * ⓘ

Scan Enterprise

Schedule Rule Parameters ⓘ

Schedule Label * ⓘ

Scan Enterprise

Cancel

Execute

Start your workflow here

Rule Activity Fields are captured

See Action Status for result of job creation

Start your workflow here

Rule Activity Fields are captured

See Action Status for result of job creation

- 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	...

Displaying 1 - 1 of 1

- 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_rules	<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 executed documenting the rule invocation.
- Scheduled rules will not show up under Action Status and Workflow Status. Refer instead to the incident notes.

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.