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 reocurring 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:

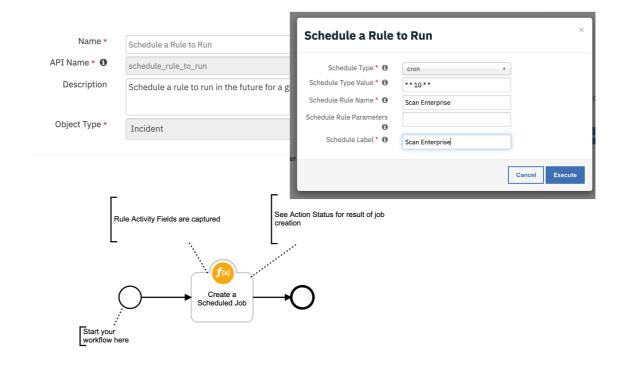
- · Create a scheduled rule
- List scheduled rule
- · Remove a scheduled rule

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.

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

Function - List Scheduled Rules

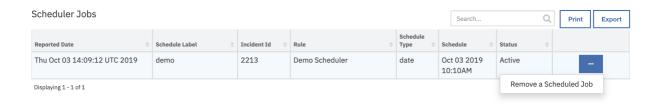
List the schedules presently defined



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

Function - Remove a Scheduled Rule

Stop a schedule



- ► Inputs:
- ► Outputs:

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- ► Example Pre-Process Script:
- ► Example Post-Process Script:

Rules

Rule Name	Object	Workflow Triggered
List Scheduled Rules	incident	list_schedules
Remove a Scheduled Rule	scheduler_rules	remove_a_schedule
Schedule a Rule to Run	incident	schedule_rule_to_run
Schedule a Rule to Run - Artifact	artifact	schedule_a_rule_to_run_artifact
Schedule a Rule to Run - Task	task	schedule_a_rule_to_runtask

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. 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

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• 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.

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