

Calendar Invite Functions for IBM Resilient

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Release Notes

Note: The results payload returned by the Calendar Invite function has changed in 1.1.0. The function now returns the standard results JSON format generated by resilient-lib ResultPayload. See example Outputs in the Calendar Invite Function description below if you have previously created your own workflow that uses the function.

| Version | Date | Notes |
|---------|--------|----------------------------|
| 1.1.0 | 1/2021 | App Host and Proxy Support |
| 1.0.0 | 9/2018 | Initial Release |

Overview

Resilient Circuits Components for 'fn_calendar_invite'

The screenshot shows the IBM Resilient Sysadmin interface. At the top, there's a navigation bar with 'Dashboards', 'Inbox', 'Incidents', and a 'Create' button. Below this is the 'Customization Settings' section. A breadcrumb trail shows 'Workflows / Example: Calendar Invite'. The main area contains a form for editing the workflow. The form fields are: Name (Example: Calendar Invite), API Name (example_calendar_invite), Description (Example workflow that takes an incident ID and calendar invitation information as input and sends a meeting invitation via email to the members and owner of the incident along with any additionally specified email recipients.), and Object Type (Incident). To the right of the form, there's a metadata section showing Creator (Resilient Sysadmin), Last Modified (01/08/2021 15:52), Last Modified By (Resilient Sysadmin), and Associated Rules (Example: Calendar Invite). Below the form is a visual workflow diagram. It starts with a 'Start your workflow here' node, followed by a 'Calendar Invite' function node (labeled 'fn'). The input to the function is 'meeting information: datetime, subject, description, attendee email addresses, incident id'. The output is 'email sent and information recorded in an incident note'.

Resilient Circuits Components for 'fn_calendar_invite'

Key Features

fn_calendar_invite function takes the input incident id and retrieves the members and the owner of the incident and their email addresses. The function creates an email and calendar ICS file and sends an email to all incident members using an SMTP server inviting them to a meeting to discuss the incident. Included in the package is an example workflow that uses the fn_calendar_invite function and an example rule for creating the fn_calendar_invite workflow menu item. Both the example workflow and rule are each called "Example: Calendar Invite".

Requirements

This app supports the IBM Resilient SOAR Platform and the IBM Cloud Pak for Security.

Resilient platform

The Resilient platform supports two app deployment mechanisms, App Host and integration server.

If deploying to a Resilient platform with an App Host, the requirements are:

- Resilient platform \geq 36.0.5634.
- The app is in a container-based format (available from the AppExchange as a zip file).

If deploying to a Resilient platform with an integration server, the requirements are:

- Resilient platform \geq 36.0.5634.
- The app is in the older integration format (available from the AppExchange as a zip file which contains a tar.gz file).
- Integration server is running resilient_circuits \geq 30.0.0.

- If using an API key account, make sure the account provides the following minimum permissions:

| Name | Permissions |
|-----------|-------------|
| Org Data | Read |
| Function | Read |
| Incidents | Read |
| Users | Read |

The following Resilient platform guides provide additional information:

- *App Host Deployment Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings.
- *Integration Server Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings.
- *System Administrator Guide*: provides the procedure to install, configure and deploy apps.

The above guides are available on the IBM Knowledge Center at ibm.biz/resilient-docs. On this web page, select your Resilient platform version. On the follow-on page, you can find the *App Host Deployment Guide* or *Integration Server Guide* by expanding **Resilient Apps** in the Table of Contents pane. The System Administrator Guide is available by expanding **System Administrator**.

Cloud Pak for Security

If you are deploying to IBM Cloud Pak for Security, the requirements are:

- IBM Cloud Pak for Security ≥ 1.4 .
- Cloud Pak is configured with an App Host.
- The app is in a container-based format (available from the AppExchange as a [zip](#) file).

The following Cloud Pak guides provide additional information:

- *App Host Deployment Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings. From the Table of Contents, select Case Management and Orchestration & Automation > **Orchestration and Automation Apps**.
- *System Administrator Guide*: provides information to install, configure, and deploy apps. From the IBM Cloud Pak for Security Knowledge Center table of contents, select Case Management and Orchestration & Automation > **System administrator**.

These guides are available on the IBM Knowledge Center at ibm.biz/cp4s-docs. From this web page, select your IBM Cloud Pak for Security version. From the version-specific Knowledge Center page, select Case Management and Orchestration & Automation.

Proxy Server

The app supports a proxy server.

Installation

Install

- To install or uninstall an App or Integration on the *Resilient platform*, see the documentation at ibm.biz/resilient-docs.
- To install or uninstall an App on *IBM Cloud Pak for Security*, see the documentation at ibm.biz/cp4s-docs and follow the instructions above to navigate to Orchestration and Automation.

App Configuration

The following table provides the settings you need to configure the app. These settings are made in the app.config file. See the documentation discussed in the Requirements section for the procedure.

| Config | Required | Example | Description |
|----------------|----------|-----------------------------------|--|
| email_username | Yes | user@example.com | Calendar invitation sender email address |
| email_password | Yes | xxxx | Password of sender's email account |
| email_nickname | Yes | Resilient Meeting Organizer | Calendar invite sender nickname |
| email_host | Yes | smtp.gmail.com | Email server |
| email_port | Yes | 587 | Email server port |
| http_proxy | No | http://user:password@x.x.x.x:3128 | http proxy |
| https_proxy | No | http://user:password@x.x.x.x:3128 | https proxy |

Function - Calendar Invite

This function sends a meeting invitation via email to the members and owners of an incident along with any additionally specified email recipients.

Dashboards
Inbox
Incidents
Create

Resilient Sysadmin
resilient

Customization Settings

Layouts
Rules
Scripts
Workflows
Functions
Message Destinations
Phases & Tasks
Incident Types
Breach
Artifacts

Functions / fn_calendar_invite

Name *

Calendar Invite

API Name *

fn_calendar_invite

Message Destination *

fn_calendar_invite

Description

This function sends a meeting invitation via email to the members and owners of an incident along with any additionally specified email recipients.

Inputs

calendar_invite_datetime
calendar_invite_incident_id
calendar_invite_subject
calendar_invite_description
calendar_invite_extra_email_addr

Input Fields

ca
calendar_invite_datetime
calendar_invite_description
calendar_invite_extra_email_addr
calendar_invite_incident_id
calendar_invite_subject

Cancel

Save & Close

Save

Creator

Resilient Sysadmin

Last Modified

01/07/2021 16:05

Last Modified By

Resilient Sysadmin

Associated Workflows

Example: Calendar Invite

► Inputs:

4 / 8

| Name | Type | Required | Example | Tooltip |
|----------------------------------|----------------|----------|---------|--|
| calendar_invite_datetime | datetimepicker | Yes | – | – |
| calendar_invite_description | text | Yes | – | Calendar invite meeting description |
| calendar_invite_extra_email_addr | text | No | – | Comma separated list of extra email addresses for invitees who are not already members of the incident |
| calendar_invite_incident_id | number | Yes | – | – |
| calendar_invite_subject | text | Yes | – | Subject for calendar invite email |

► Outputs:

```

results = {{
  "version":"1.0",
  "success":true,
  "reason":"None",
  "content":{
    "recipient":[
      "a@a.com",
      "retest@gmail.com"
    ],
    "sender":"Resilient Meeting Organizer <retest@gmail.com>",
    "subject":"My Incident",
    "description":"My Incident meeting"
  },
  "raw":{"recipient\":[\"a@a.com\", \"retest@gmail.com\"],
\"sender\": \"Resilient Meeting Organizer <retest@gmail.com>\",
\"subject\": \"My Incident\", \"description\": \"My Incident meeting\"},
  "inputs":{
    "calendar_invite_incident_id":2151,
    "calendar_invite_datetime":1611291600000,
    "calendar_invite_extra_email_addr":"retest@gmail.com",
    "calendar_invite_subject":"My Incident",
    "calendar_invite_description":"My Incident meeting"
  },

```

```

    "metrics":{
        "version":"1.0",
        "package":"fn-calendar-invite",
        "package_version":"1.1.0",
        "host":"MacBook-Pro.local",
        "execution_time_ms":12759,
        "timestamp":"2021-01-08 15:27:01"
    }
}

```

► Example Pre-Process Script:

```

# Get the Calendar invite input
inputs.calendar_invite_incident_id = incident.id
inputs.calendar_invite_subject = incident.name
# This workflow uses activity fields specified at the rule for the
following fields
inputs.calendar_invite_datetime = rule.properties.rule_calendar_date_time
inputs.calendar_invite_description =
rule.properties.rule_calendar_description.content
inputs.calendar_invite_extra_email_addr =
rule.properties.rule_calendar_extra_email_addr.content

```

► Example Post-Process Script:

```

# results.content dict contains "recipient", "sender", "subject", body"
content = results.get("content")
r_to = content.get("recipient")
r_from = content.get("sender")
r_subject = content.get("subject")
r_description = content.get("description")

note_text = u"""<p><b>Meeting Invite</b></p>
To: {}<br>
From: {}<br>
Subject: {}<br>
Description: {}""".format(r_to, r_from, r_subject, r_description)

incident.addNote(helper.createRichText(note_text))

```

Rules

| Rule Name | Object | Workflow Triggered |
|--------------------------|----------|--------------------------------------|
| Example: Calendar Invite | incident | <code>example_calendar_invite</code> |

The Example: Calendar Invite rule

Resilient

Dashboards

Inbox

Incidents

Create

Q

Resilient Sysadmin
resilient

Customization Settings

Layouts

Rules

Scripts

Workflows

Functions

Message Destinations

Phases & Tasks

Incident Types

Breach

Artifacts

Rules / Example: Calendar Invite

Display Name *

Example: Calendar Invite

Object Type

Incident

Conditions

Add conditions in which to invoke the rule. [Add New](#)

Cancel

Save & Close

Save

Activities

Ordered

Ordered Activities will be invoked in the order specified below. They include: *Add Tasks*, *Run Script*, and *Set Field*. [Add New](#)

Workflows

Workflow Activities are started after all Ordered Activities complete.

Example: Calendar Invite

Destinations

Transaction Data is posted to Message Destinations after all Ordered Activities complete and all Workflows have been started.

Select Destinations

Show Activity Fields

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The following activity popup menu appears when then the incident menu rule is activated:

Example: Calendar Invite

Meeting date and time *

MM/DD/YYYY HH:mm:ss Z

Meeting description *

Additional invitees

comma separated list of email addresses

Cancel

Execute

Troubleshooting & Support

Refer to the documentation listed in the Requirements section for troubleshooting information.

For Support

This is a IBM Community provided App. Please search the Community <https://ibm.biz/resilientcommunity> for assistance.