SNDBOX Sandbox Analyzer Function for IBM Resilient

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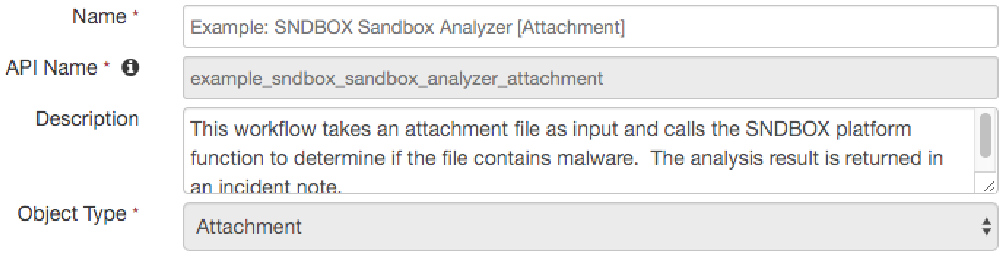
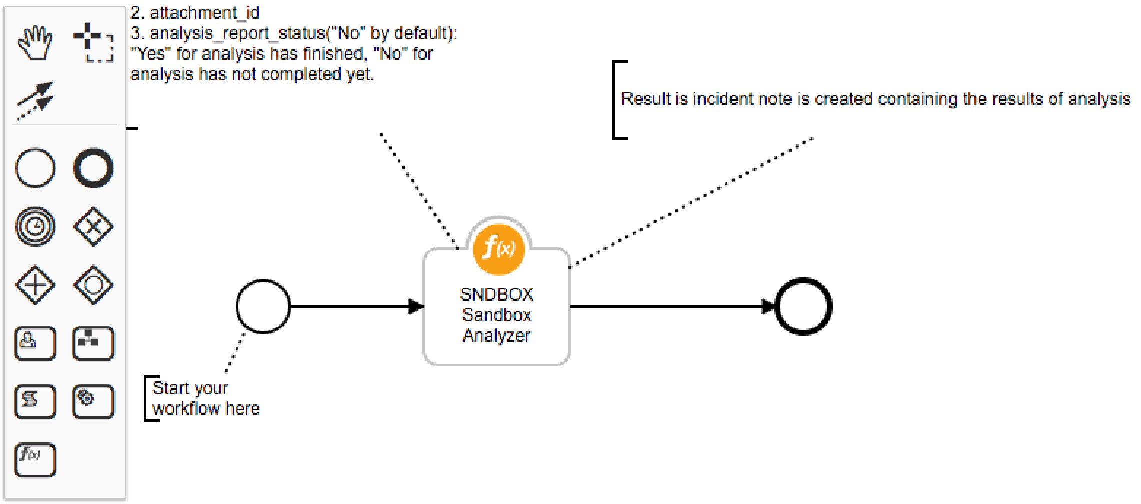
This package contains a function that executes a SNDBOX Malware Sandbox Analysis using SNDBOX Cloud APIs, also included are two example workflows and two example rules that demonstrate how to use this function.



Name *	Example: SNDBOX Sandbox Analyzer [Attachment]
API Name *	example_sndbox_sandbox_analyzer_attachment
Description	This workflow takes an attachment file as input and calls the SNDBOX platform function to determine if the file contains malware. The analysis result is returned in an incident note.
Object Type *	Attachment



2. attachment_id
3. analysis_report_status("No" by default): "Yes" for analysis has finished, "No" for analysis has not completed yet.

Result is incident note is created containing the results of analysis

Start your workflow here

Notes

- an attachment or artifact must be a file. Please refer https://app.sndbox.com/docs/files for the supported file list.
- The report only supports Type of JSON. HTML and PDF are not supported.

app.config settings:

```
# Your SNDBOX Analyzer API Key
sndbox_api_key=

# Your SNDBOX Server URL, using https://api.sndbox.com if empty.
sndbox_analyzer_url=https://api.sndbox.com

# Amount of time in seconds to wait until timeout.
sndbox_analyzer_report_request_timeout=300
```

Function Inputs:

Function Name	Type	Required	Example	Info
`incident_id`	`Number`	Yes	`1001`	The ID of the current Incident
`attachment_id`	`Number`	No	`5`	The ID of the Attachment to be analyzed
`artifact_id`	`Number`	No	`6`	The ID of the Artifact to be analyzed
`analyzer_report_status`	`Boolean`	Yes	`No`	Has the analysis report generated successfully. Options are: `Yes` or `No`

Function Output:

```
results = {
                "analysis_report_status": analysis_report_status,
                "incident_id": incident_id,
                "artifact_id": artifact_id,
                "attachment_id": attachment_id,
                "sample_final_result": sample_final_result
            }
```

Pre-Process Script:

Example: SNDBOX Sandbox Analyzer [Attachment]

```
inputs.incident_id = incident.id
inputs.attachment_id = attatchment.id
```

Example: SNDBOX Sandbox Analyzer [Artifact]

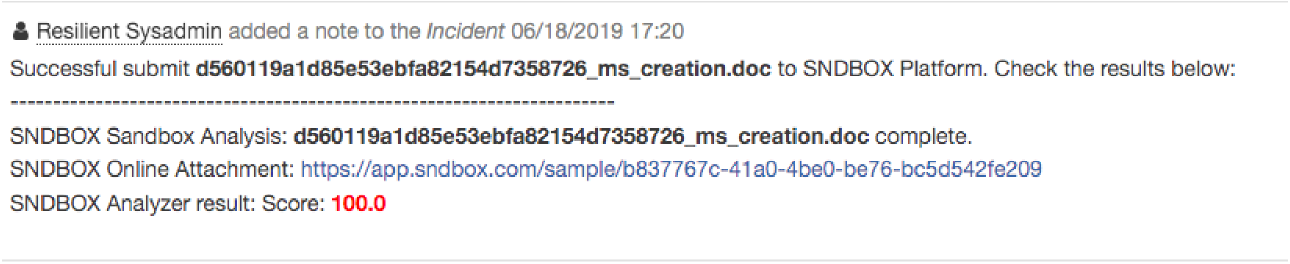
```
inputs.incident_id = incident.id
inputs.artifact_id = artifact.id
```

Post-Process Script:

This example adds a Note to the Incident and color codes the `analysis_status` depending if it was **malicious** or **clean**

```
def font_color(score):
    color = "green"
    try:
        if float(score) >= 0.56:
            color = "red"
    except:
        pass
    return color

def sample_score(score):
    return round(score * 100) if score else 0

if not results.analysis_report_status:
    noteText = u"""Successful submit <b>{}</b> to SNDBOX Platform. However it wil
        artifact.value)

else:
    noteText = u"""Successful submit <b>{}</b> to SNDBOX Platform. Check the resu
        artifact.value)

    for sample in results.sample_final_result:
        noteText += u"""---------------------------------------------------------
        color = font_color(sample["sample_report"]["score"])
        noteText += u"""<br>SNDBOX Sandbox Analysis: <b>{sample_filename}</b> com
                   SNDBOX Online Attachment: <a href={sample_online_report}>{samp
                   SNDBOX Analyzer result:  Score: <b style= "color:{color}">{sam
               """.format(sample_filename=sample["sample_report"]["name"],
                          sample_online_report=sample["sample_report"]["sample_ur
                          color=color,
                          sample_score=sample_score(sample["sample_report"]["scor

incident.addNote(helper.createRichText(noteText))
```

Example of adding a incident note from post-processing scripts:



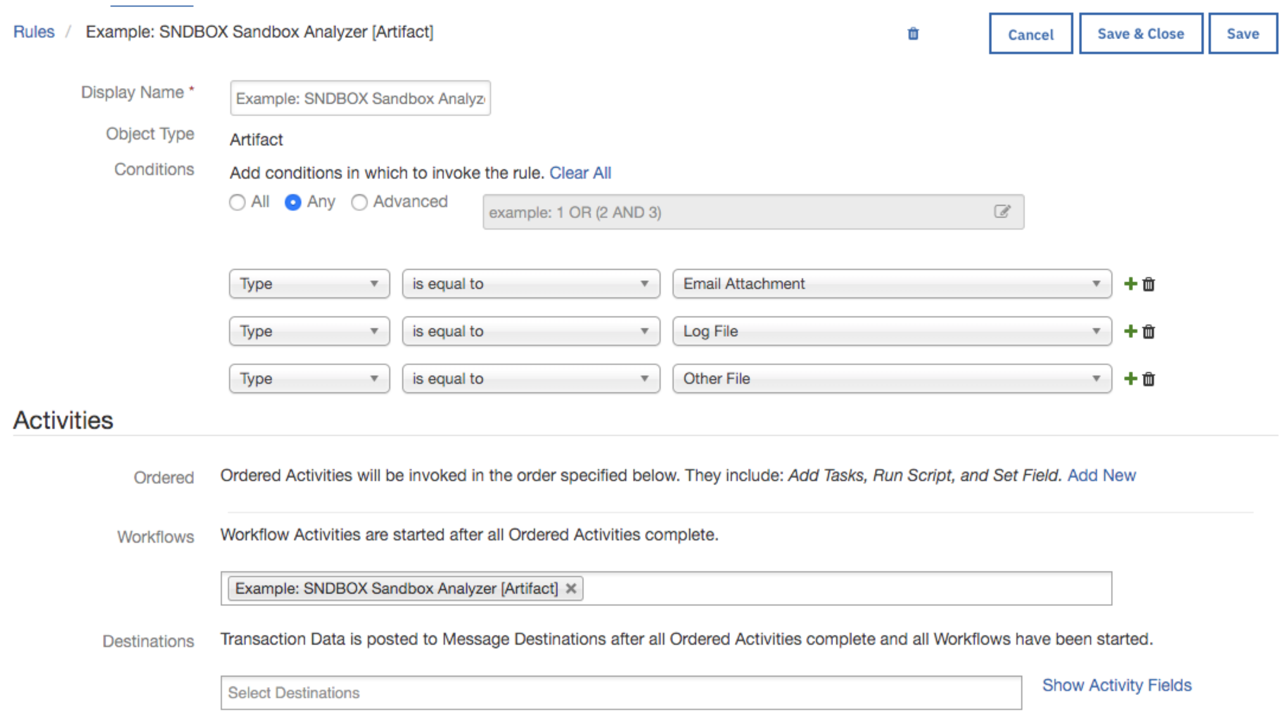
Resilient Sysadmin added a note to the *Incident* 06/18/2019 17:20

Successful submit **d560119a1d85e53ebfa82154d7358726_ms_creation.doc** to SNDBOX Platform. Check the results below:

SNDBOX Sandbox Analysis: **d560119a1d85e53ebfa82154d7358726_ms_creation.doc** complete.
SNDBOX Online Attachment: https://app.sndbox.com/sample/b837767c-41a0-4be0-be76-bc5d542fe209
SNDBOX Analyzer result: Score: **100.0**

Rules

Rule Name	Object Type	Workflow Triggered
Example: SNDBOX Sandbox Analysis [Artifact]	`Artifact`	`Example: SNDBOX Sandbox Analyzer [Artifact]`



Rules / Example: SNDBOX Sandbox Analyzer [Artifact]

Display Name * Example: SNDBOX Sandbox Analyz

Object Type Artifact

Conditions Add conditions in which to invoke the rule. Clear All

○ All ● Any ○ Advanced example: 1 OR (2 AND 3)

Type	is equal to	Email Attachment
Type	is equal to	Log File
Type	is equal to	Other File

Activities

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

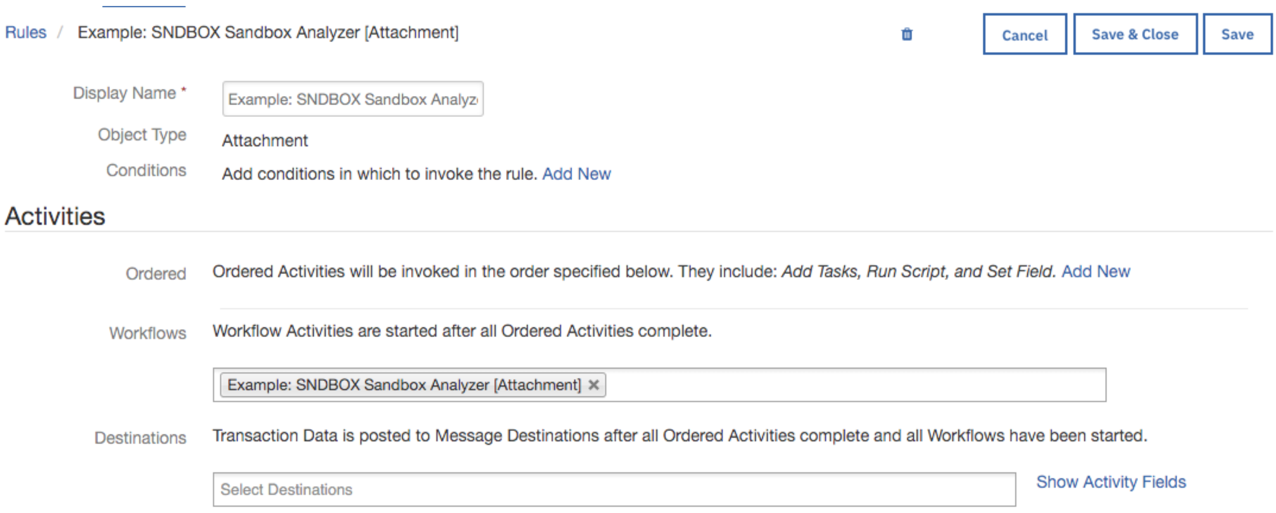
Workflows Workflow Activities are started after all Ordered Activities complete.

Example: SNDBOX Sandbox Analyzer [Artifact] ×

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

Select Destinations

Rule Name	Object Type	Workflow Triggered2
Example: SNDBOX Sandbox Analyzer [Attachment]	`Attachment`	`Example: SNDBOX Sandbox Analyzer [Attachment]`



Rules / Example: SNDBOX Sandbox Analyzer [Attachment]

Display Name * Example: SNDBOX Sandbox Analyz

Object Type Attachment

Conditions Add conditions in which to invoke the rule. Add New

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: SNDBOX Sandbox Analyzer [Attachment] ✕

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

Select Destinations