

How to encrypt the Request Body of a Copy Activity when making an API request

Last updated by | Ranjith Katukojwala | Mar 7, 2023 at 11:35 AM PST

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How to encrypt the Request Body of a Copy Activity when making an API request

Steps to follow

1. Create a Copy Data Activity in Pipeline and pass values to the Request Body.

Save as template

Validate

Debug

Add trigger

Copy data

Copy data1

General

Source

Sink¹

Mapping

Settings

User properties

Source dataset *

DelimitedText3

Open

New

Preview data

Request method *

GET

Additional headers

Request body

Testing the encryption of the body

Request timeout

2. Click on the "Code" button.

Save as template

Validate

Debug

Add trigger

Copy data

Copy data1

Properties

General

Name *

TSG

Description

3. Identify the attribute "requestBody" in the JSON code.

```

    "type": "Copy",
    "dependsOn": [],
    "policy": {
      "timeout": "7.00:00:00",
      "retry": 0,
      "retryIntervalInSeconds": 30,
      "secureOutput": false,
      "secureInput": false
    },
    "userProperties": [],
    "typeProperties": {
      "source": {
        "type": "DelimitedTextSource",
        "storeSettings": {
          "type": "HttpReadSettings",
          "requestMethod": "GET",
          "requestBody": {
            "Type": "SecureString",
            "Value": "Testing the encryption of the body"
          },
          "requestTimeout": ""
        },
        "formatSettings": {
          "type": "DelimitedTextReadSettings"
        }
      },
      "sink": {
        "type": "AzureSqlSink",
        "tableOption": "autoCreate"
      },
      "enableStaging": false
    },
    "inputs": [
      {
        "referenceName": "DelimitedTexthttp",
        "type": "DatasetReference"
      }
    ]
  }
}

```

4. Change the "requestBody" attribute to be an Object of type "SecureString" and add the attribute "Value".

Pipeline name TSG

Copy to clipboard

```
1 {
2   "name": "TSG",
3   "properties": {
4     "activities": [
5       {
6         "name": "Copy data1",
7         "type": "Copy",
8         "dependsOn": [],
9         "policy": {
10          "timeout": "7:00:00:00",
11          "retry": 0,
12          "retryIntervalInSeconds": 30,
13          "secureOutput": false,
14          "secureInput": false
15        },
16        "userProperties": [],
17        "typeProperties": {
18          "source": {
19            "type": "DelimitedTextSource",
20            "storeSettings": {
21              "type": "HttpReadSettings",
22              "requestMethod": "GET",
23              "requestBody": {
24                "Type": "SecureString",
25                "Value": "Testing the encryption of the body"
26              },
27              "requestTimeout": ""
28            },
29            "formatSettings": {
30              "type": "DelimitedTextReadSettings"
31            }
32          },

```

5. When executing/debugging, we can notice in the Input that the values contained in the Request Body are being encrypted.

Parameters Variables **Output**

Pipeline run ID: **6904be1e-1042-4e87-8d04-7f4b3091d0b5** [@] [View details](#)

Name		Type	Run start	Duration
Copy data1		Copy	2020-08-25T08:12:50.279	00:00:05

How good have you found this content?

