# Forcepoint DLP API and ServiceNow Integration Configuration Guide

# Forcepoint

# Forcepoint DLP API and ServiceNow Integration Tool Configuration Steps

#### Description

This code is designed to interact with the Data Loss Prevention (DLP) API and the ServiceNow incidents API. It performs the following tasks:

- 1. Authenticates with the DLP API by sending a POST request to obtain a refresh token and an access token.
- Uses the access token to send a POST request to the DLP API to retrieve a list of incidents within a specified date range.
- 3. Parses the JSON response from the DLP API into a list of incident dictionaries.
- 4. Writes the JSON response to a file named **EL-DLP\_incidents\_DIM.json**.
- Creates ServiceNow incidents for each incident retrieved from the DLP API by sending a POST request to the ServiceNow incidents API.

#### **Code Explanation**

- 1. The code starts by importing the necessary modules: **requests** for making HTTP requests, **json** for working with JSON data and **csv** for working with CSV files.
- The DLP API endpoints are defined using the base URL https://james.tingley.lab.go4labs.net:9443/dlp/rest/v1/auth. The specific endpoints used are /refresh-token and /access-token.
- 3. The authentication credentials **username and password** are set in the **headers** dictionary along with the content type.
- 4. A POST request is sent to the DLP API refresh token endpoint to obtain a refresh token. The request is made using the **requests.post()** method, passing the **refresh\_url** and **headers** as parameters. The **verify=False** parameter is used to disable SSL verification.
- The refresh token is extracted from the response by parsing the JSON content using json.loads(refresh\_response.text)["refresh\_token"].
- 6. Another POST request is sent to the DLP API access token endpoint to obtain an access token. The request is made using the requests.post() method, passing the access\_url, headers and the refresh token in the request payload access\_payload. The request data is serialized to JSON format using json.dumps(access\_payload).
- The access token is extracted from the response by parsing the JSON content using json.loads(access\_response.text)["access\_token"].
- 8. The **headers** dictionary is updated with the access token, which will be used in future requests to authenticate with the DLP API.
- 9. The DLP API incidents endpoint URL is defined.
- A JSON payload is created, specifying the type of incidents to retrieve INCIDENTS and the date range from\_date and to\_date.
- 11. A POST request is sent to the DLP API incidents endpoint using the **requests.post()** method, passing the URL, headers and payload as parameters. The response is stored in the **response** variable.

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- 12. The JSON response is parsed using **json.loads(response.text)[incidents]** to extract the list of incident dictionaries.
- 13. The **fieldnames** list is defined, specifying the field names for the CSV file.
- 14. The response is written to a JSON file named **EL-DLP\_incidents\_DIM.json** using the **open()** function with the **w** mode and the **write()** method.
- 15. ServiceNow details, including the instance URL, username and password, are provided.
- 16. The create\_service\_now\_incident() function is defined, which takes an incident dictionary as input.
- 17. Inside the function, the incident data is defined as a JSON string, including the short description and description fields.
- 18. A POST request is sent to the ServiceNow incidents API using the **requests.post()** method, passing the incident data, authentication credentials, headers and the ServiceNow incidents API URL.
- 19. If the response status code indicates an error (>= 300), an error message is printed.

#### Usage

To use this code, follow these steps:

- 1. Make sure the **requests**, **json** and **csv** modules are installed.
- 2. Set the appropriate values for the **username** and **password** variables in the **headers** dictionary.
- 3. Set the appropriate values for the **service\_now\_instance**, **service\_now\_user** and **service\_now\_pass** variables.
- 4. Run the code.
- 5. The code will authenticate with the DLP API, retrieve the incidents within the specified date range, parse the response and write it to a JSON file.
- 6. For each incident, a ServiceNow incident will be created using the provided details.
- 7. If there are any errors during the process, they will be displayed in the console.

Note: This code assumes the availability of the DLP API and ServiceNow incidents API endpoints, as well as the necessary permission and access credentials.

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