Ishbook API

How to use the Ishbook API.

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Authenticating to the API

> **WARNING:**
> **Never put your credentials in as part of the URL or query string!**
> Your credentials must go into the data payload. Putting them anywhere else, even just once, and calling the endpoint will leak your credentials into Indeed's logs and IQL.

- Send HTTP **POST** to the /api/v2/rest-auth/login/ endpoint, passing {'username': username, 'password': password} in the **data payload**

Retrieving an API token

```
user = os.environ.get("LDAP_username", 'user')
pswd = os.environ.get("LDAP_password", 'password') # this should come from your user-scoped

import requests as req

response = req.post(ishbook_api_base_url + "rest-auth/login/", data = {'username': user, 'pa
response.raise_for_status() # check for exceptions
key = response.json()['key']
```

- Response is JSON, includes a key called "key" that has a token as the value
- When making API requests, add a header "Authorization" with value "Token aaaabbbbcccc" (where aaaabbbbcccc is the token you retrieved above) in your requests

Calling the API

```
header = { 'Authorization': f"Token {key}"}
response = req.get(ishbook_api_base_url + f"notebook/{notebook_id}/executions",  headers = h
print(f"Called {response.url}")
response.raise_for_status()
print(response.json())
```

- You can cache the token and refresh it if authentication fails

Potentially Useful Examples

- Execute a Notebook
- Retrieve Notebook Results

Discovering the API

Hitting /api/v2 (e.g. https://ishbook.sandbox.indeed.net/api/v2/ in prod) in a browser will allow you to discover the API quite easily.

API Endpoint Documentation

Interactive docs (similar to the browsable API, but more complete) for specific endpoints are located at /schema (https://ishbook.sandbox.indeed.net/schema).

Avoiding leaking your credentials in the UI

Leaking credentials can happen in the ishbook webapp.

Please take the following steps to avoid leaky credentials in ishbooks. Any variables set in the first cell of an ishbook appear on the dashboard like this https://ishbook.sandbox.indeed.net/nb/9845/dashboard/? **Do not ask for passwords or other credentials as these parameters are logged to logrepo and indexed in IQL.**
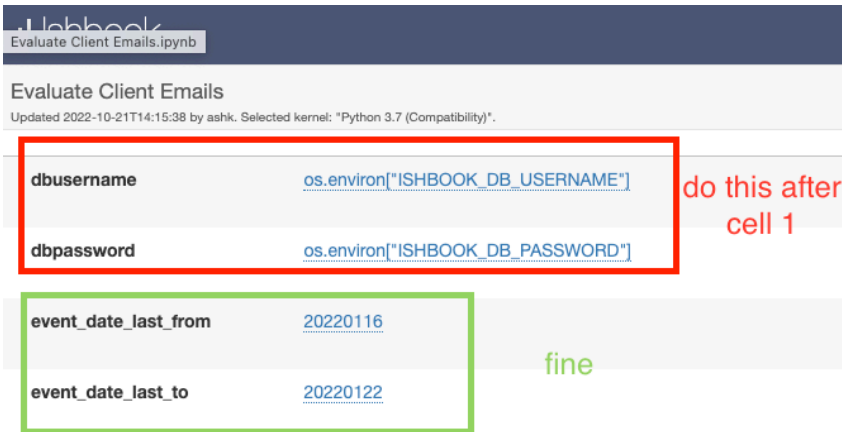
- Do not set sensitive variables in the first Ishbook cell. These input parameters are saved into ishbook's database and accessible via the UI and API, as well as logrepo and IQL.
- Do not hardcode password values in python variables
- Use Notebook- and User-scoped environment variables to obscure sensitive credentials