

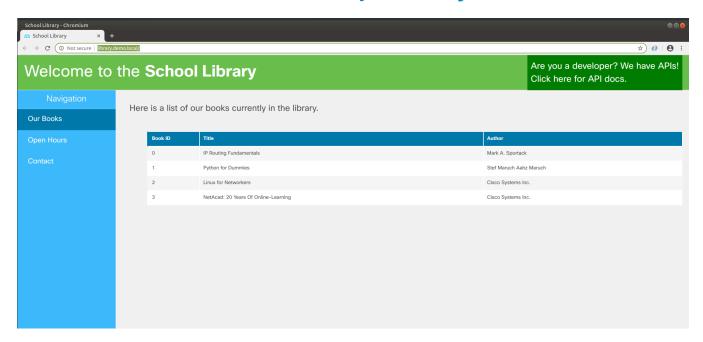
Laboratorio 4a

Explore REST APIs with API Simulator and Postman

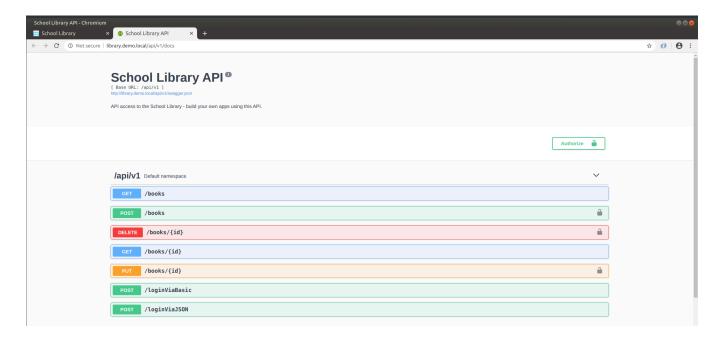
Sergio Sebastian Pezo Jimenez - 20224087G

Parte 1: Inicializamos la VM de DEVASC.

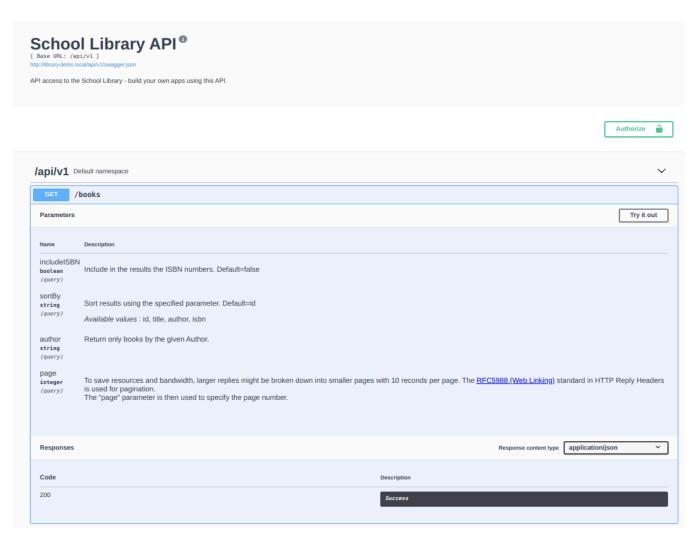
Parte 2: Nos conectamos a http://library.demo.local/



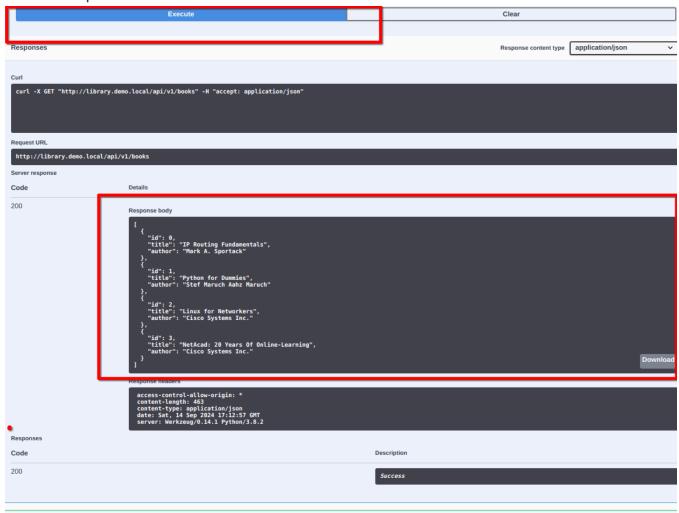
Vamos al swagger de la API



CLickamos en GET /books API



Damos click en Try it out, para probar el endpoint previamente mencionado, y notamos qu el nos devuelve una lista de libros.



AHora probamos el endpoint con el comando curl en la terminal.

```
devasc@labvm:~

File Edit View Search Terminal Help

devasc@labvm:~S curl -X GET "http://library.demo.local/api/v1/books" -H "accept: application/json"

{

    "id": 0,
    "title": "IP Routing Fundamentals",
    "author": "Mark A. Sportack"
},

{
    "id": 1,
    "title": "Python for Dummies",
    "author": "Stef Maruch Aahz Maruch"
},

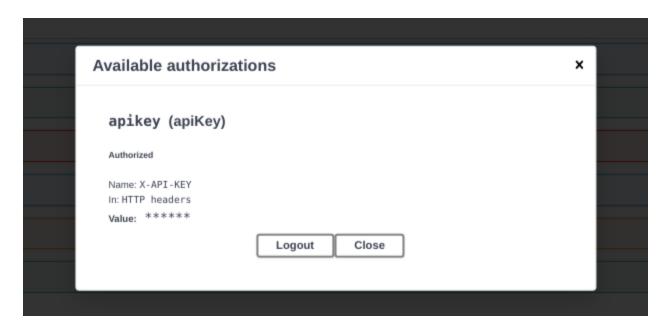
{
    "id": 2,
    "title": "Linux for Networkers",
    "author": "Cisco Systems Inc."
},

{
    "id": 3,
    "title": "NetAcad: 20 Years Of Online-Learning",
    "author": "Cisco Systems Inc."
}

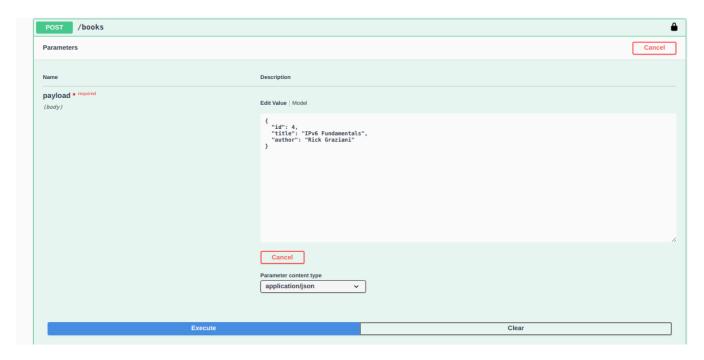
}
```

Incluimos el parámetro includeISBN a la petición

Ahora estamos en el endpoint POST /loginViaBacis, el cual no devolvió un APIkey de autorización



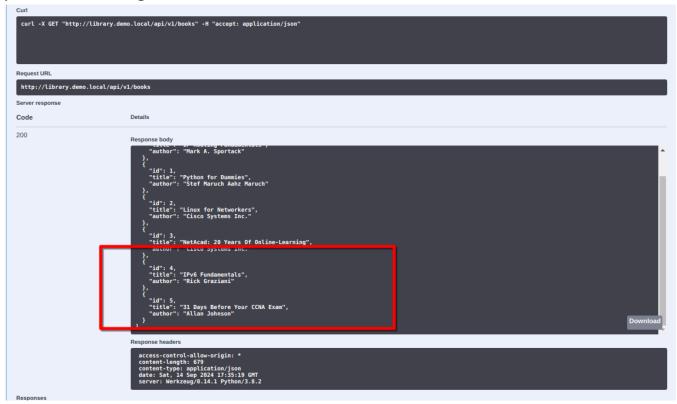
Ahora procederemos a añadir un libro con el endpoint POST /books,



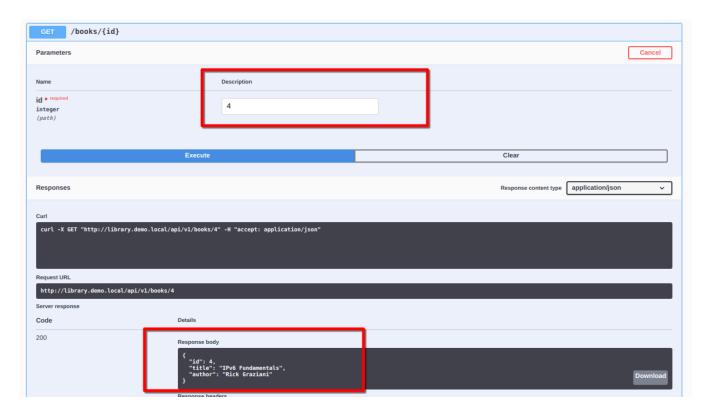
EN caso coloquemos correctamente el token previamente mencionado, obtendrems una respuesta 200.



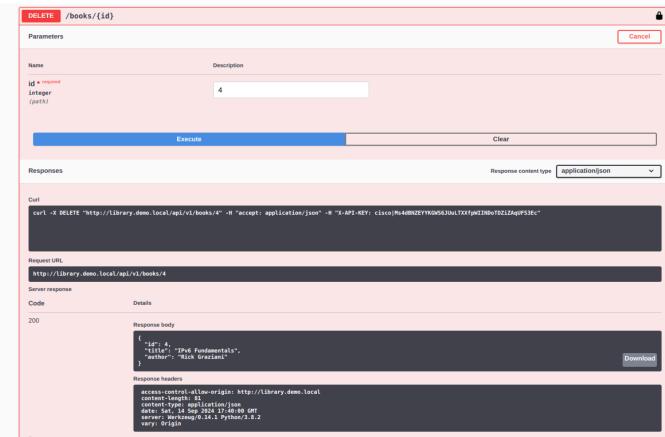
Ahora al hacer un GET de los libroslograremos observar nuestros libros previamente aregados.



Buscamos un libro por su id, con GET /books/{id}



Eliminamos un libro con el endpoint DELETE /books/{id}

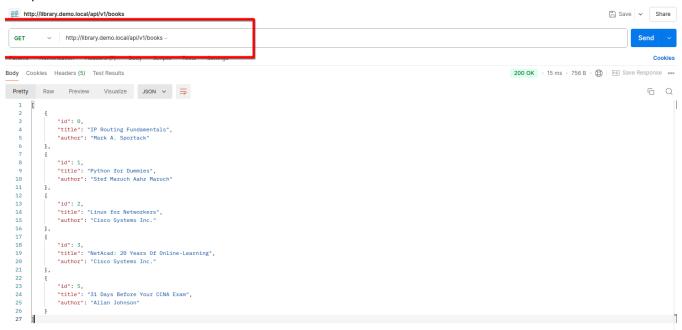


Veamos si realmente se eliminó. En efecto, al hacer nuevamente un GET, ya no

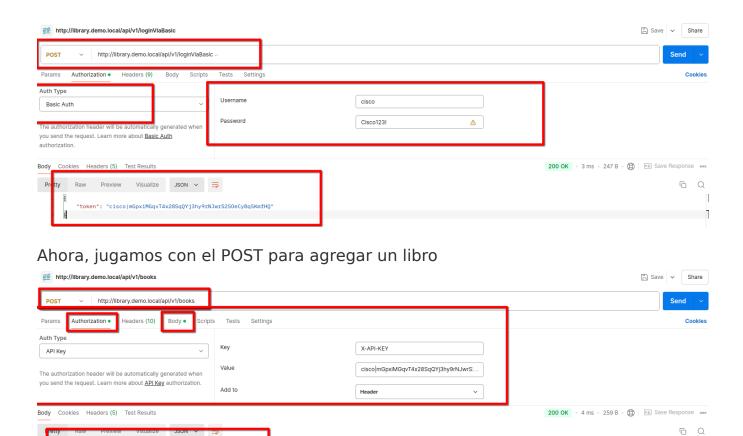
está el libro 4.

Parte 3: Ahora usaremos POSTMAN

Empezamos con GET

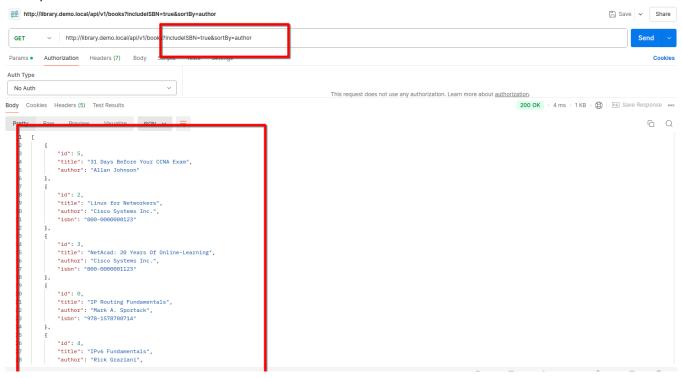


Obtenemos otro token, pero ahora con POSTMAN:



Ahora verificaremos si realmente se agregó, además, añadimos un par de queries a la petición.

"author": "Rick Graziani"



Parte 4: Usando Python para agregar 100 libros

Primero jugamos con el módulo faker.

```
devasc@labvm:~/labs/devnet-src/school-library$ python3
Python 3.8.2 (default, Apr 27 2020, 15:53:34)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> from faker import Faker
>>> fake = Faker()
>>> print('My name is {}.'.format(fake.name()))
My name is Charles Lewis.
>>> print('My name is {} and I wrote "{}" (ISBN {}).'.format(fake.name(),fake.catch_phrase(),fake.isbn13()))
My name is Cynthia Rodriguez and I wrote "Object-based 24hour throughput" (ISBN 978-1-965763-98-8).
```

```
>>> for i in range(10):
... print(fake.name())
...
Samuel Galvan
Joseph Barnes
Christopher Reed
Richard Lopez
Amy Richardson
Kathleen Villa
Angela Weaver
David Ortiz
Shaun Bishop
Christopher Johnson
>>>
```

Analizamos el código de Python y agregamos los 100 libros:

```
add100RandomBooks.py - school-library - Visual Studio Co
                                                                                                                                                                                                                                                                                                                     File Edit Selection View Go Run Terminal Help
                           add100RandomBooks.py ×
                                add100RandomBooks.py > 🛇 getAuthToken
                                                      PASSWORD = "Cisco123!"
      ₫
                                                      def getAuthToken():
                                                                                                                                                                                                                                                                                                                                            (d': a7, 'tttle': 'Pigttized Leasingeage procedur, action / any action /
(d': a8, 'tttle': 'Polarized regional software', 'author': 'Denise Caldwell', 'isbn': '978-0-01-7'
i') added.
'd': a9, 'tttle': 'Profound non-volatile installation', 'author': 'Justin Griffith', 'isbn': '978-88842-2') added.
'd': 90, 'tttle': 'Cloned motivating circuit', 'author': 'Lisa Lewis', 'isbn': '978-0-419-44557-9
                                                                                    f"{APIHOST}/api/v1/loginViaBasic",
auth = authCreds
                                                                    if r.status_code == 200:
    return r.json()["token"]
                                                                                                                                                                                                                                                                                                                                               u.
id': 91, 'title': 'Future-proofed stable capability', 'author': 'Karen Harrison', 'isbn': '978-0
26-4') added.
                                                                                                                                                                                                                                                                                                                                             126-4') added.
id: 92, 'tttle': 'Phased full-range service-desk', 'author': 'Jennifer Martinez', 'isbn': '978-0
'963-0') added.
'di: 93, 'tttle': 'Triple-buffered radical database', 'author': 'Brittany Holland', 'isbn': '978-
10504-6') added.
'Id: 94, 'ttle': 'Balanced multimedia capacity', 'author': 'Jonathan Martinez', 'isbn': '978-1-5
37-7') added.
                                                      def addBook(book, apiKey):
                                                                                                                                                                                                                                                                                                                                             headers = {
    "Content-type": "application/json",
                                                                                                                                                                                                                                                                                                                                              (d: 9), (lete: Secured Zero Untermice analysis, decomposition) of 0-9) added.

dd: 98, 'ttle': 'Implemented encompassing model', 'author': 'Richard Zuniga', 'tsbn': '978-0-64

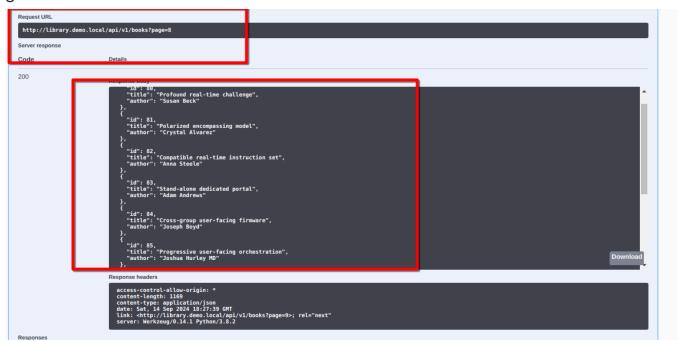
3-9) added.

dd: 99, 'ttle': 'Re-engineered human-resource core', 'author': 'Kristine Barker', 'isbn': '978-391-3') added.

dd: 100, 'ttle': 'Secured regional matrices', 'author': 'Amanda Brady', 'isbn': '978-0-7790-209
                                                                                    data = ison.dumps(book)
       (2)
                                                                                                                                                                                                                                                                                                                                                      on the content of the
                                                                                             Ln 13, Col 34 Spaces: 4 UTF-8 LF {} Python 3.8.2 64-bi
```

AHora volvemos al swagger y verificamos, añadimos como query page=8, pues

por temas de cuidar el ancho de banda, se divide por grupos de 10, probemos con 8



Efectivamente, obtenemos los libros del 80 a 89.

Finalizado