



BioStar 2 New Local API Introduction



How can you find Webinar Contents?

1) Email

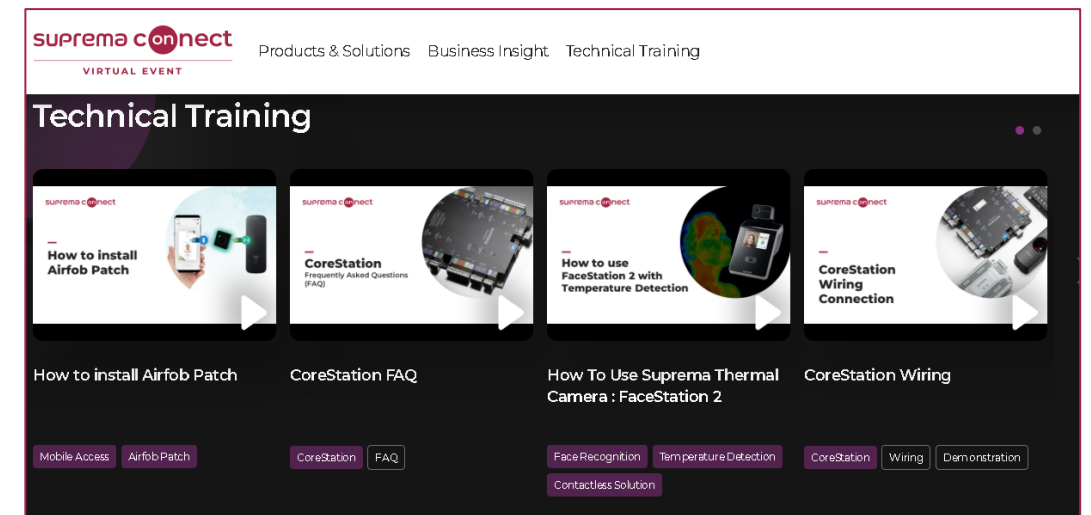
- ✓ Suprema Team will provide the presentation and the recorded video link to the registered emails.
- ✓ It will take about 7 days after reviewing the files with Q&A list.

2) Suprema Connect Website

- ✓ We will post the recorded video to the site.
- ✓ <https://www.supremainc.com/connect/index.asp>
- ✓ Please google “Suprema Connect”

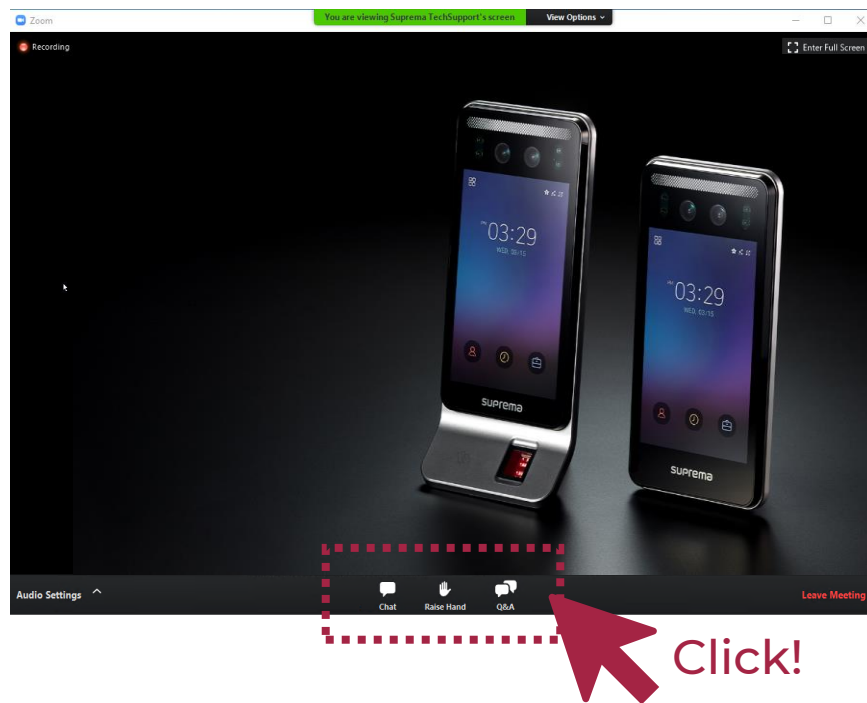
3) Suprema Technical Support Site

- ✓ You can find the information with Q&A list on the website below.
- ✓ Please search Suprema Webinar in the support page, or simply google it.
- ✓ <https://support.supremainc.com>



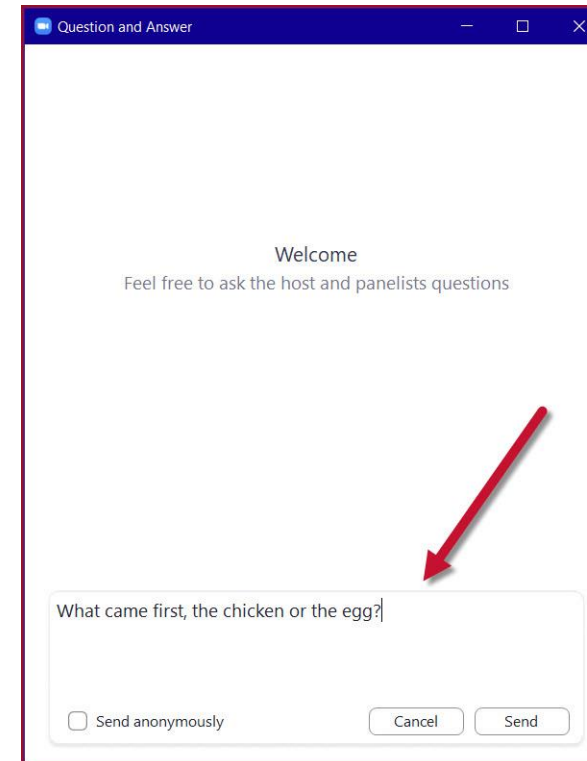
<Suprema Connect webpage>

How can you ask questions during a webinar?



How to find the necessary icons

- ✓ Please move your mouse to the bottom of your screen, the 3 icons will appear.



- ✓ During the webinar, you can leave your questions in the **Q&A box anytime**. Suprema Panels will answer in real time.



Contents

- 01 | Understanding BioStar 2 API
- 02 | BioStar 2 Local API vs. **BioStar 2 New Local API**
- 03 | How to use **BioStar 2 New Local API**
- 04 | FAQ

Understanding BioStar 2 API

What is API?

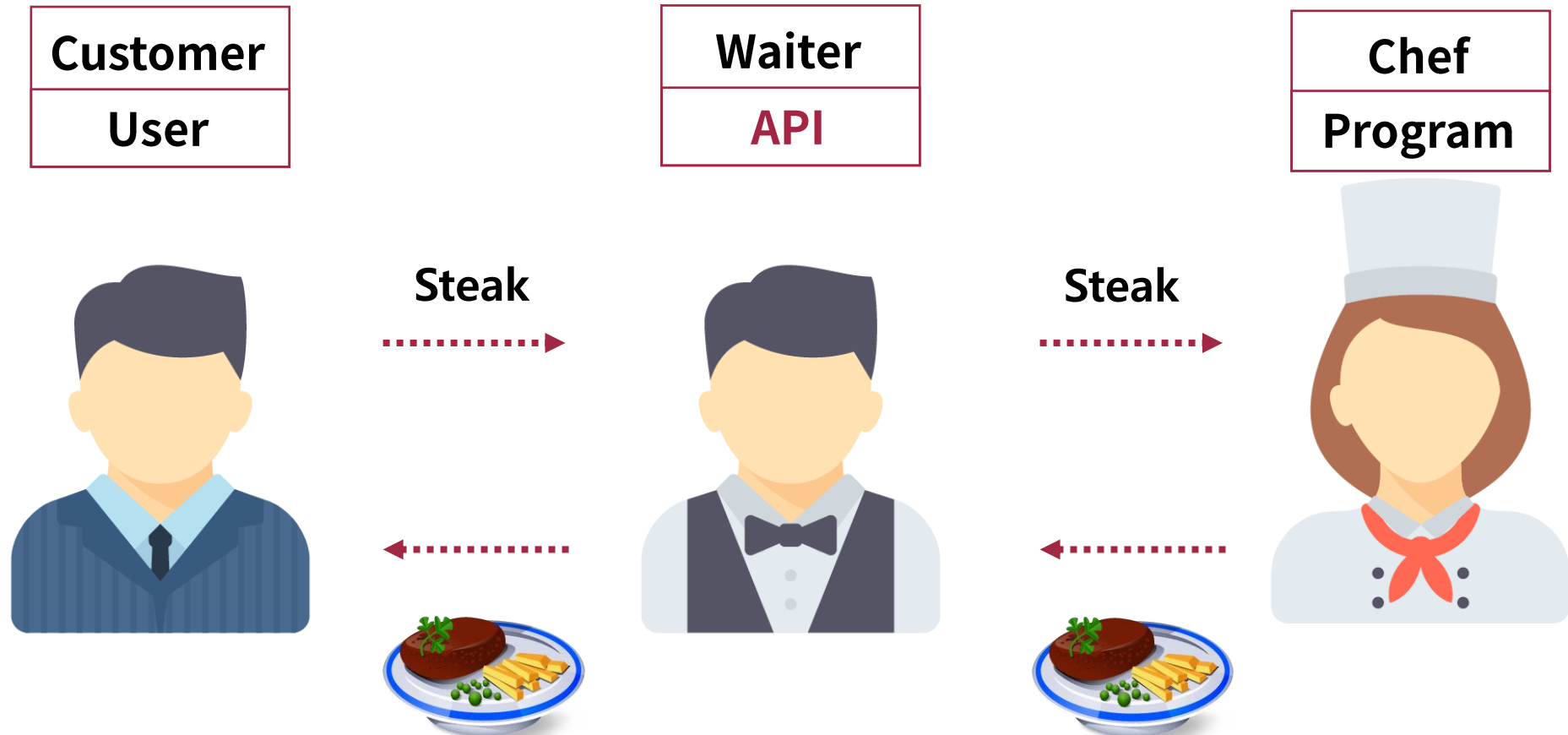
What can BioStar 2 API be used for?

Understanding BioStar 2 API – **What is API?**

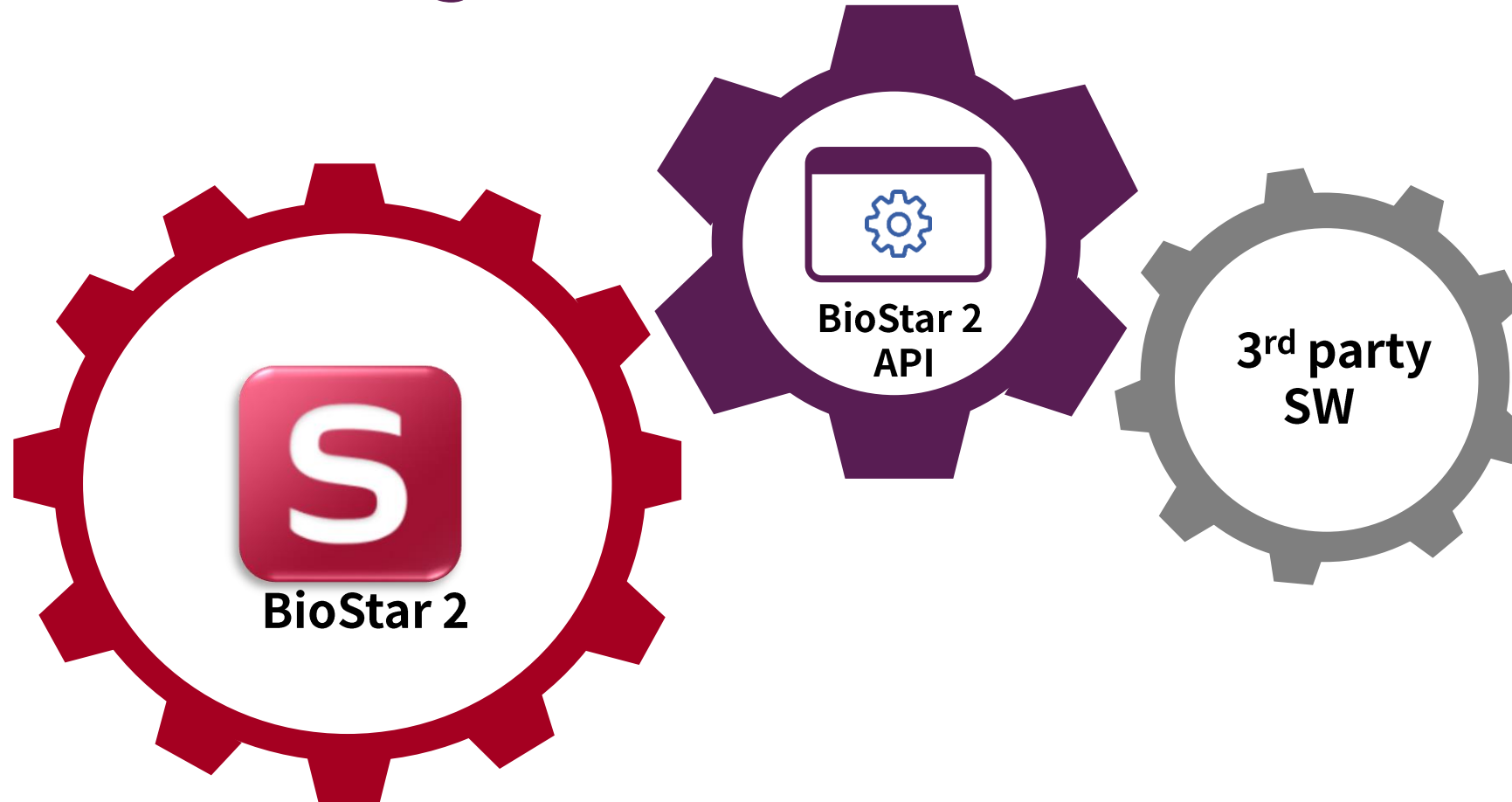
API

Application **P**rogramming **I**nterface

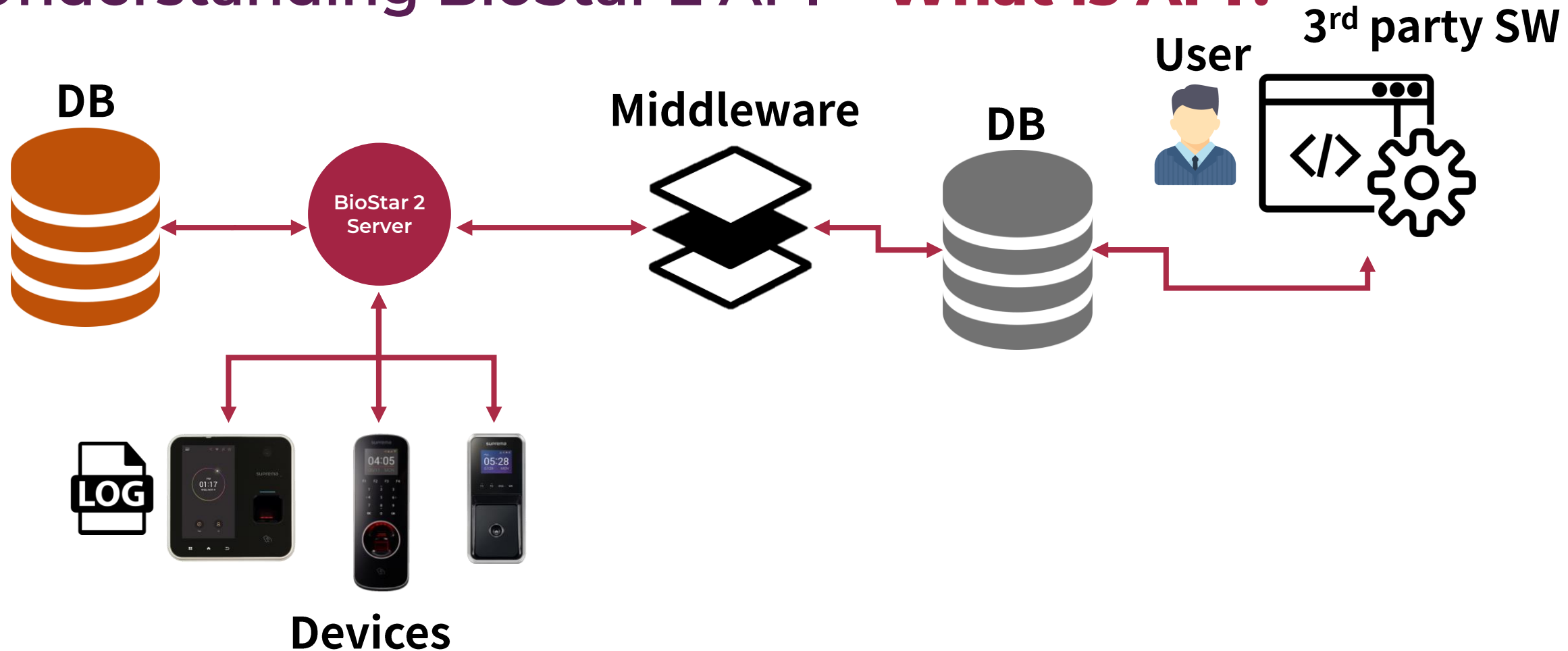
Understanding BioStar 2 API – **What is API?**



Understanding BioStar 2 API – **What is API?**



Understanding BioStar 2 API – **What is API?**

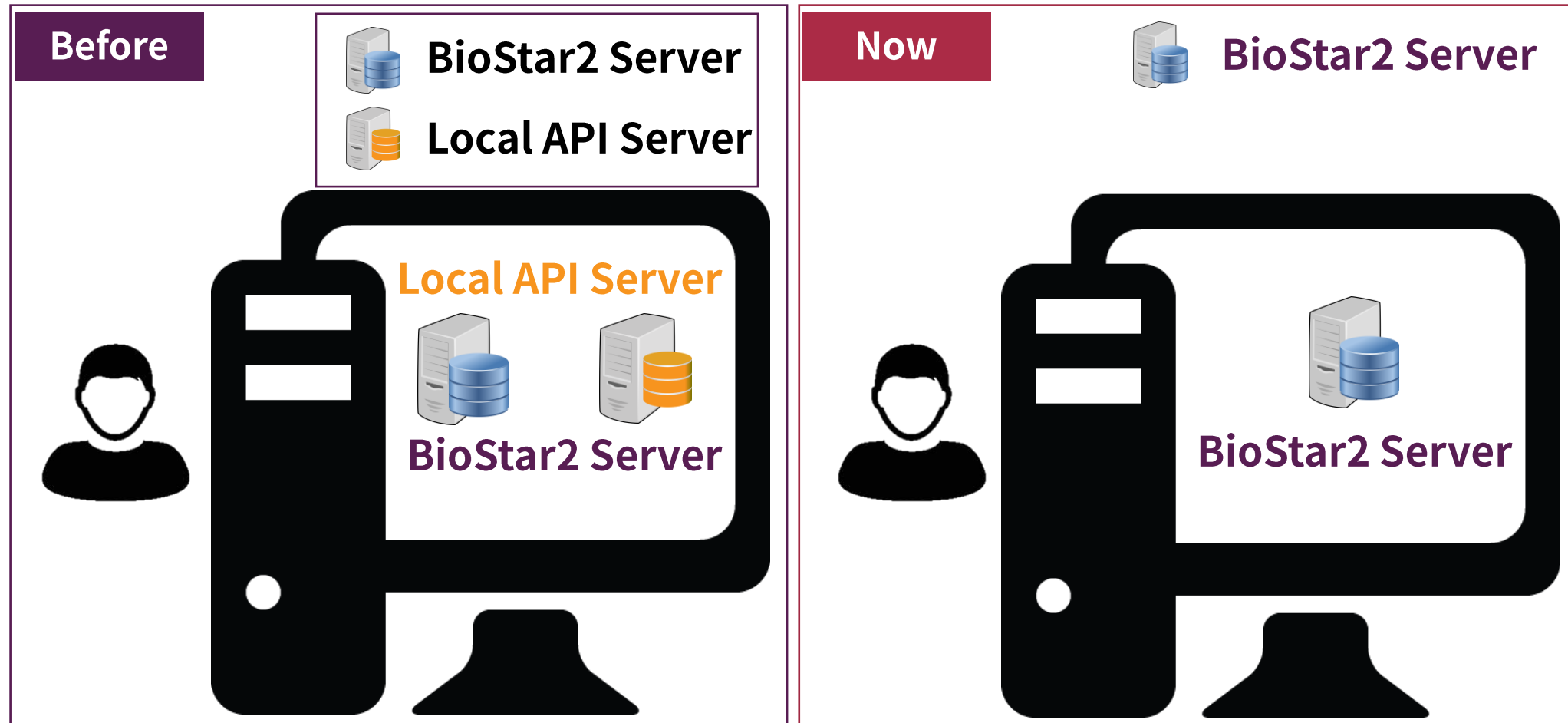


BioStar 2 Local API vs. BioStar 2 New Local API

BioStar 2 Local API vs. **BioStar 2 New Local API**

Version of BioStar 2	~ BioStar 2.7.10	BioStar 2.7.10 ~
Development Environment	-Local API (Requirements: Local API Server Installation)	BioStar 2.7.10 or higher version
Available API	BioStar 2 Local API	BioStar 2 New Local API
Required License of BioStar 2	Standard License (Access control)	Free of Charge
Swagger Document	https://127.0.0.1:8795/v2/docs/	https://127.0.0.1/swagger/index.html
Controllable features via API	Device, Device group, Door, Door group, User, User group, Monitoring	Device, Device group, Door, Door group, User, User group, Monitoring, Trigger & Actions, Elevators, Elevator group, Floor levels and more

BioStar 2 Local API vs. **BioStar 2 New Local API**



BioStar 2 Local API vs. **BioStar 2 New Local API**

Swagger UI

192.168.13.36:8795/v2/docs/

http://[BioStar 2 server IP address]:8795/v2/docs/

suprema

Public API Quick Start

Public API

- Access Control
- Auth
- Card
- Device
- Device Group
- Door
- Door Group
- Monitoring
- Privilege

BioStar 2 API

HTTP Header 'Content-Language' is used for language. ISO-639-1, ISO-639-3 values are supported.

Access Control

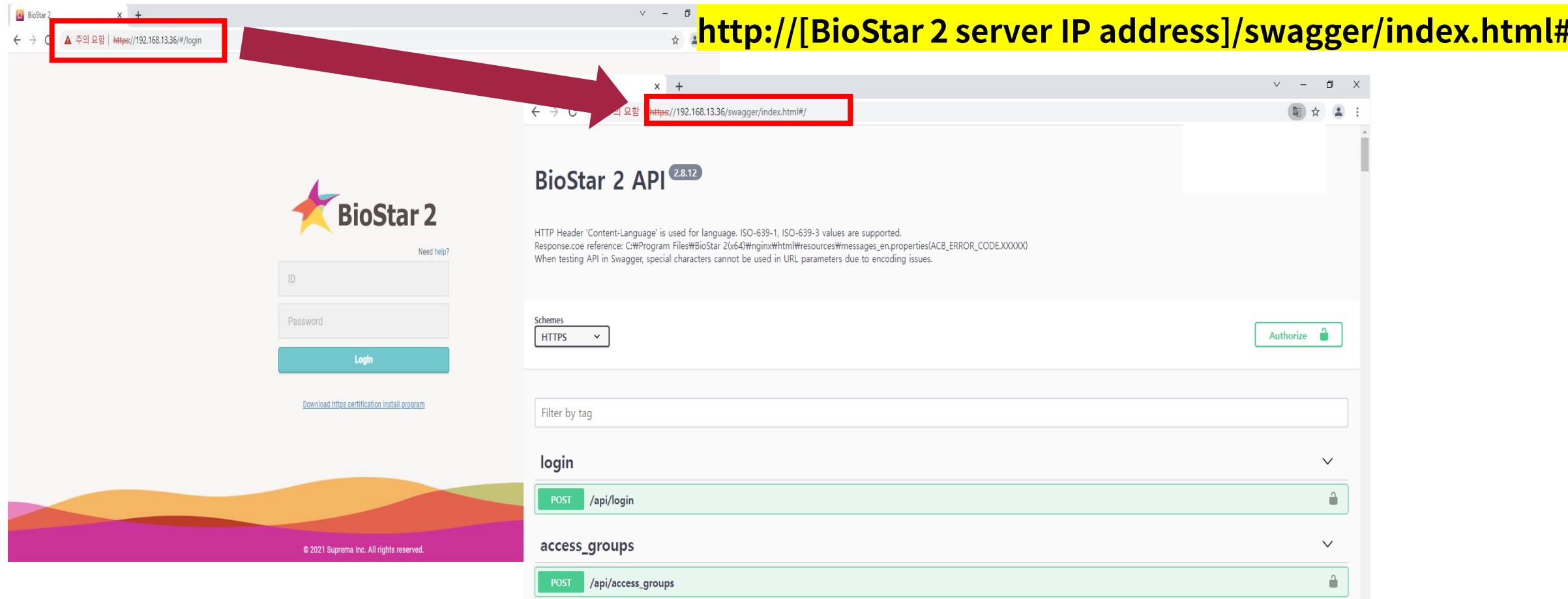
Card

Device Group

Device

Door Group

BioStar 2 Local API vs. **BioStar 2 New Local API**



The image shows two browser windows side-by-side. The left window displays the BioStar 2 login page with fields for ID and Password, and a Login button. The right window displays the BioStar 2 API Swagger interface. A red box highlights the URL `https://192.168.13.36/#/login` in the left window's address bar, and a red box highlights the URL `https://192.168.13.36/swagger/index.html#` in the right window's address bar. A large red arrow points from the left window's address bar to the right window's address bar. A yellow banner at the top right of the right window contains the text `http://[BioStar 2 server IP address]/swagger/index.html#`.

BioStar 2

Need help?

ID

Password

Login

[Download https certification install program](#)

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BioStar 2 API ^{2.8.12}

HTTP Header 'Content-Language' is used for language. ISO-639-1, ISO-639-3 values are supported.
Response.coe reference: C:\Program Files\BioStar 2\nginx\html\resources\messages_en.properties(ACB_ERROR_CODE.XXXXX)
When testing API in Swagger, special characters cannot be used in URL parameters due to encoding issues.

Schemes

HTTPS

Authorize

Filter by tag

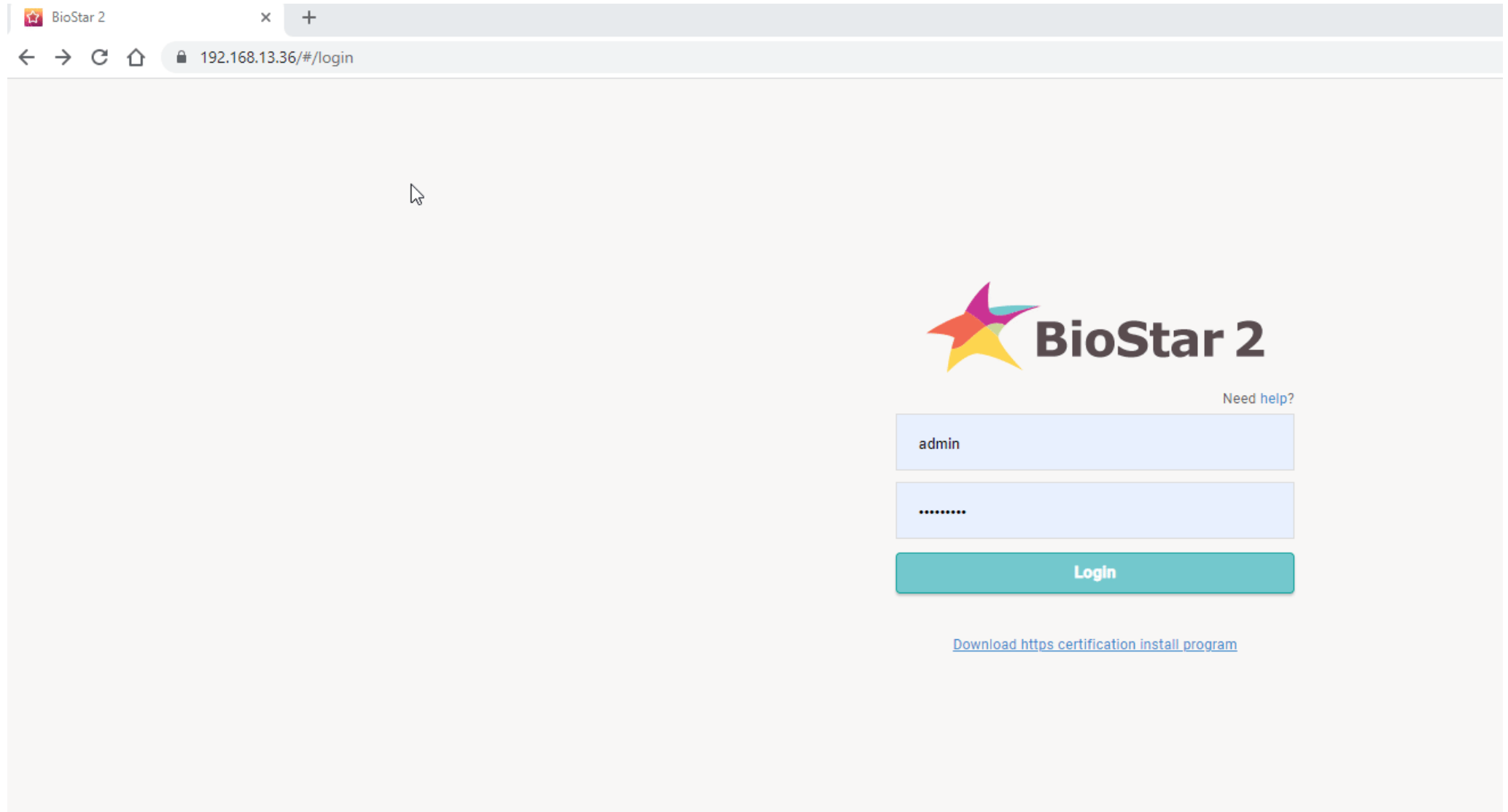
login

POST /api/login

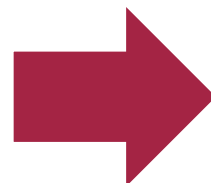
access_groups

POST /api/access_groups

BioStar 2 Local API vs. **BioStar 2 New Local API**



Local API (until BioStar 2.7.8)	
Category	Function
Access Control	access groups
	access levels
	holidays
	schedules
Card	cards
Device Group	device groups
Device	devices
Door group	door groups
Door	doors
Auth	login
	logout
Monitoring	monitoring
Register	register
Reference	references
Setting	setting
User	users
User group	user groups

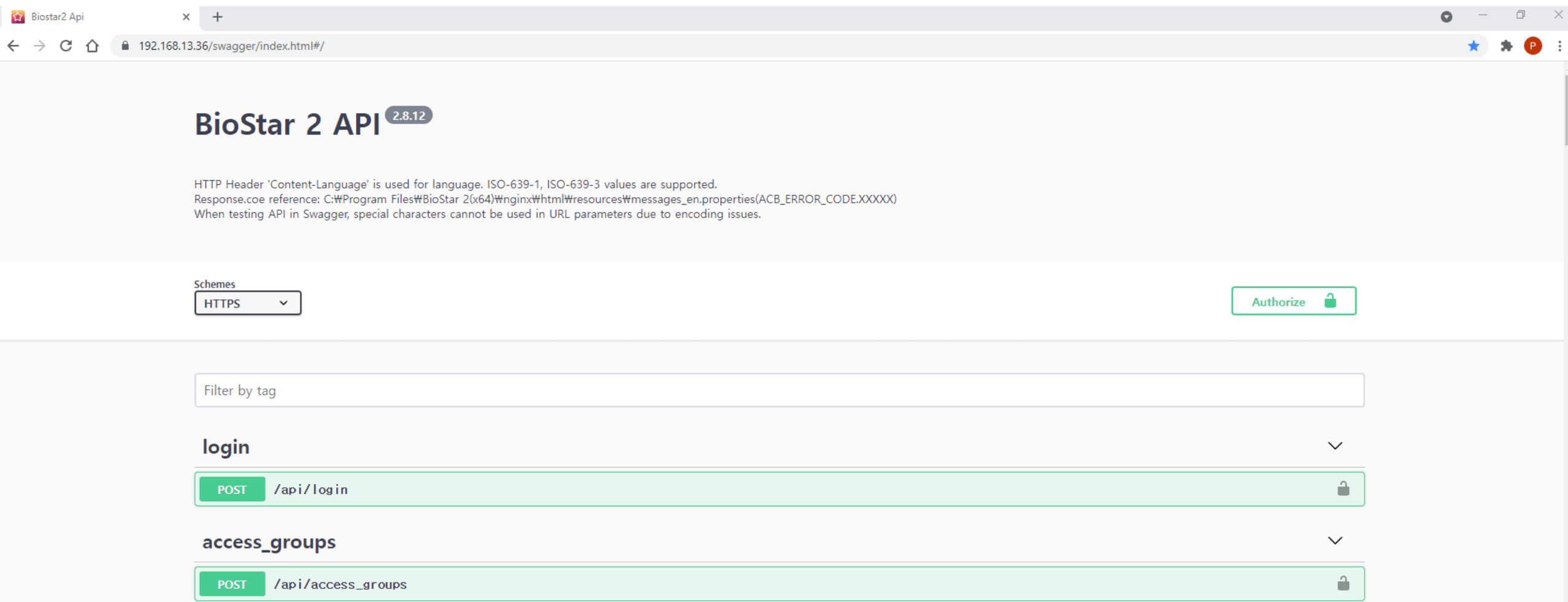


New Local API (add function from BioStar 2.7.10)	
Function	
floor levels	
elevators	
elevator groups	
trigger actions	
send email	
setting email	
attachments	
audit	
events	
send email QR	
zones	

How to use BioStar 2 New Local API

How to use BioStar 2 New Local API

How to login using Swagger UI



The screenshot shows a web browser window with the Swagger UI for the BioStar 2 API. The browser's address bar shows the URL `192.168.13.36/swagger/index.html#/`. The Swagger UI title is "BioStar 2 API" with a version tag "2.8.12". Below the title, there is a note about the HTTP Header 'Content-Language' and a reference to a response code. The "Schemes" dropdown is set to "HTTPS". There is an "Authorize" button with a lock icon. A search bar labeled "Filter by tag" is present. Two API endpoints are listed: "login" and "access_groups", both with a "POST" method and a lock icon.

BioStar 2 API 2.8.12

HTTP Header 'Content-Language' is used for language. ISO-639-1, ISO-639-3 values are supported.
Response.coe reference: C:\Program Files\BioStar 2(x64)\nginx\html\resources\messages_en.properties(ACB_ERROR_CODE.XXXXX)
When testing API in Swagger, special characters cannot be used in URL parameters due to encoding issues.

Schemes: HTTPS

Authorize

Filter by tag

login ✓

POST /api/login

access_groups ✓

POST /api/access_groups

How to use BioStar 2 New Local API

How to get user information

1. Wants to show user information in BioStar 2 DB



User

2. Call API request
>GET /api/users



BioStar 2

DB



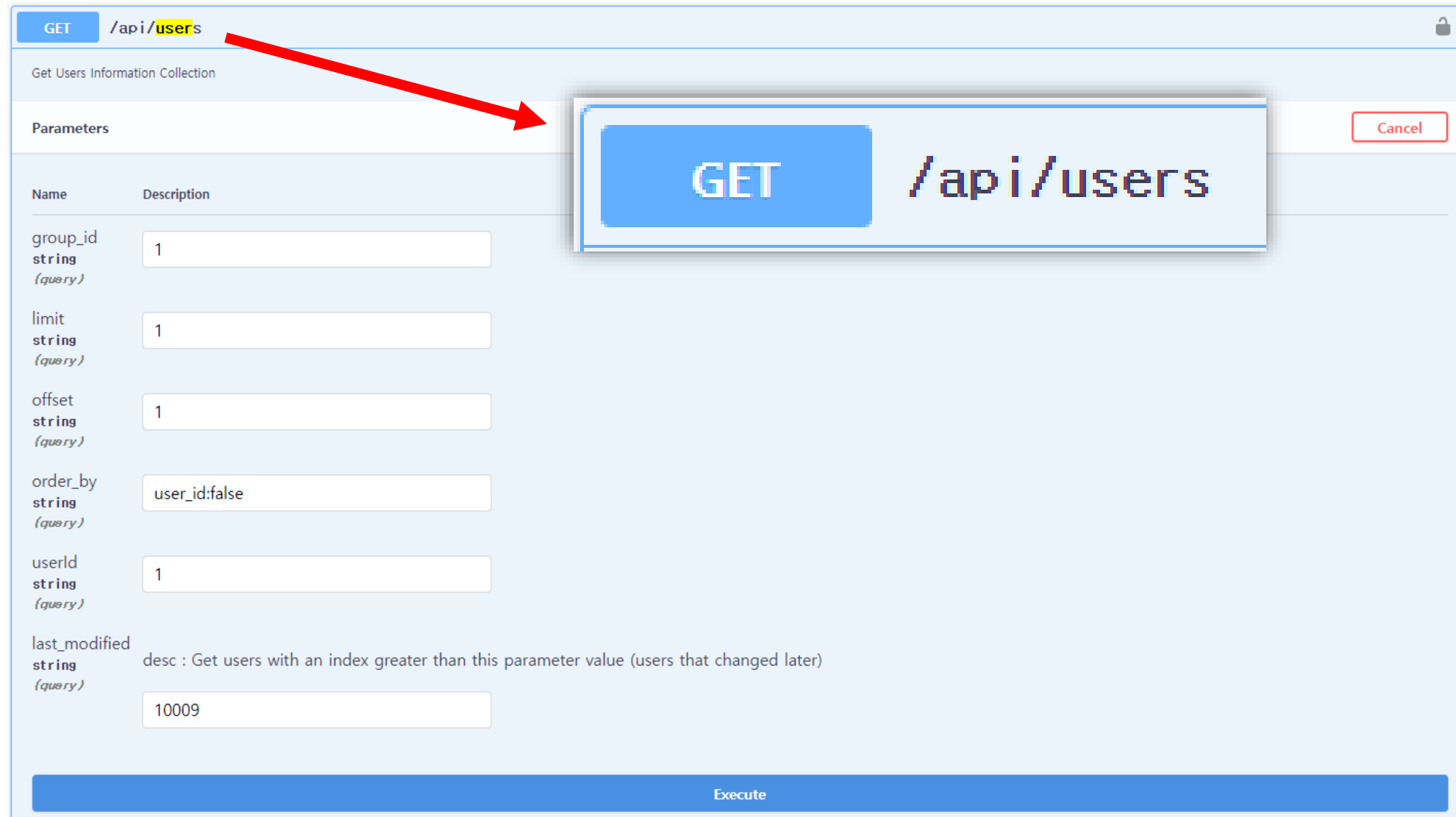
*User group information** icon search*



Devices

How to use BioStar 2 New Local API

How to get user information



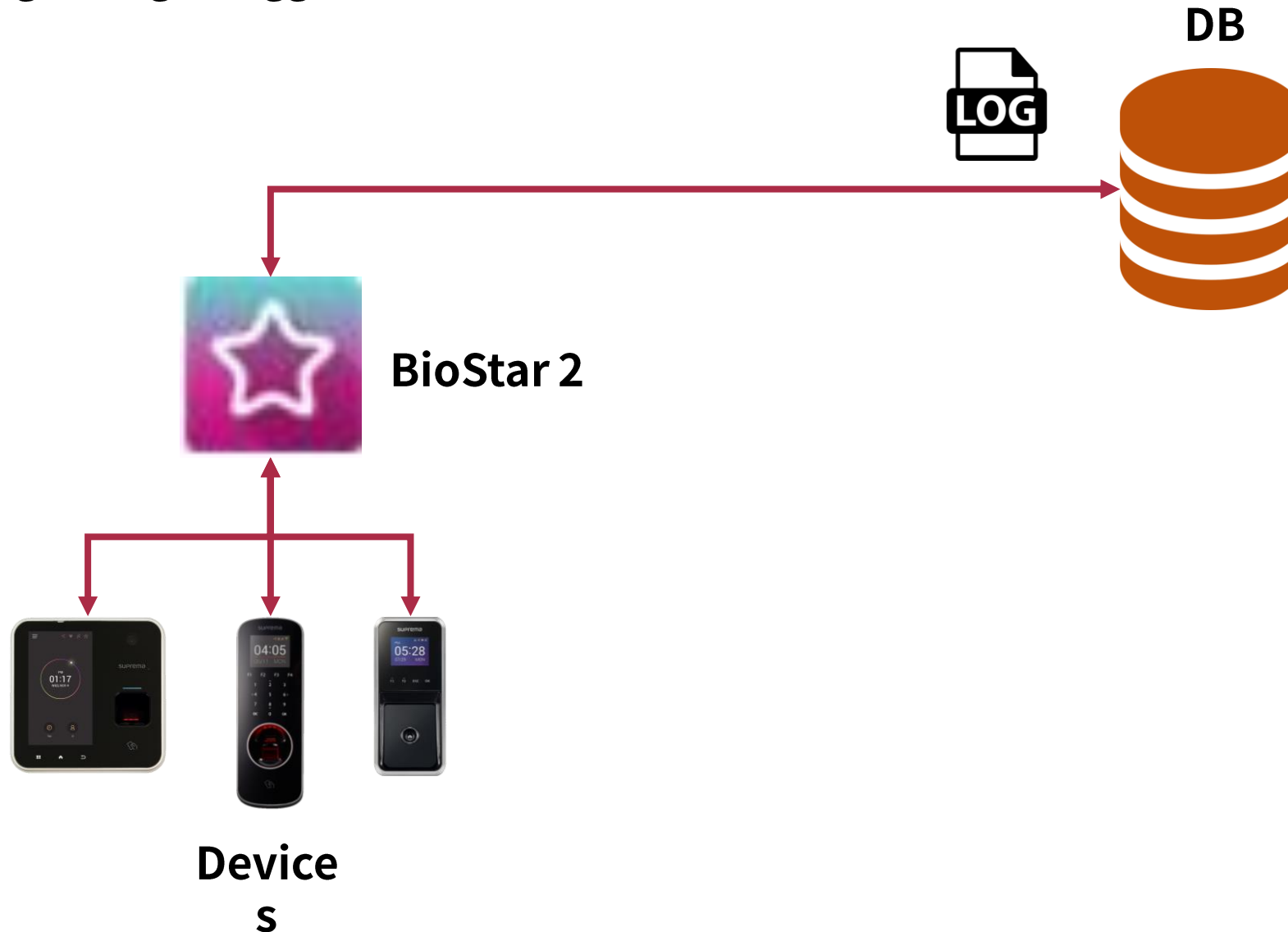
The screenshot displays the BioStar 2 API interface for the endpoint `GET /api/users`. A red arrow points from the `/api/users` text in the top bar to a modal box that also shows `GET /api/users`. The modal box has a blue background and a white border. The main interface has a light blue background and a white border. The top bar is blue with the text `GET /api/users` in white. Below the top bar, the text `Get Users Information Collection` is displayed. The `Parameters` section contains a table with the following parameters:

Name	Description
group_id string (query)	1
limit string (query)	1
offset string (query)	1
order_by string (query)	user_id:false
userId string (query)	1
last_modified string (query)	desc : Get users with an index greater than this parameter value (users that changed later) 10009

At the bottom of the interface, there is a blue button labeled `Execute`. A red `Cancel` button is located in the top right corner of the modal box.

How to use BioStar 2 New Local API

How to get logs using Swagger UI



How to use BioStar 2 New Local API

How to get logs using Swagger UI

events

POST /api/events/search

Select a date range to search for events.

Parameters

Name	Description
body	Example Value Model

(body)

```
{  "Query": {    "limit": 51,    "conditions": [      {        "column": "datetime",        "operator": 3,        "values": [          "2019-07-30T15:00:00.000Z"        ]      }    ],    "orders": [      {        "column": "datetime",        "descending": false      }    ]  } }
```

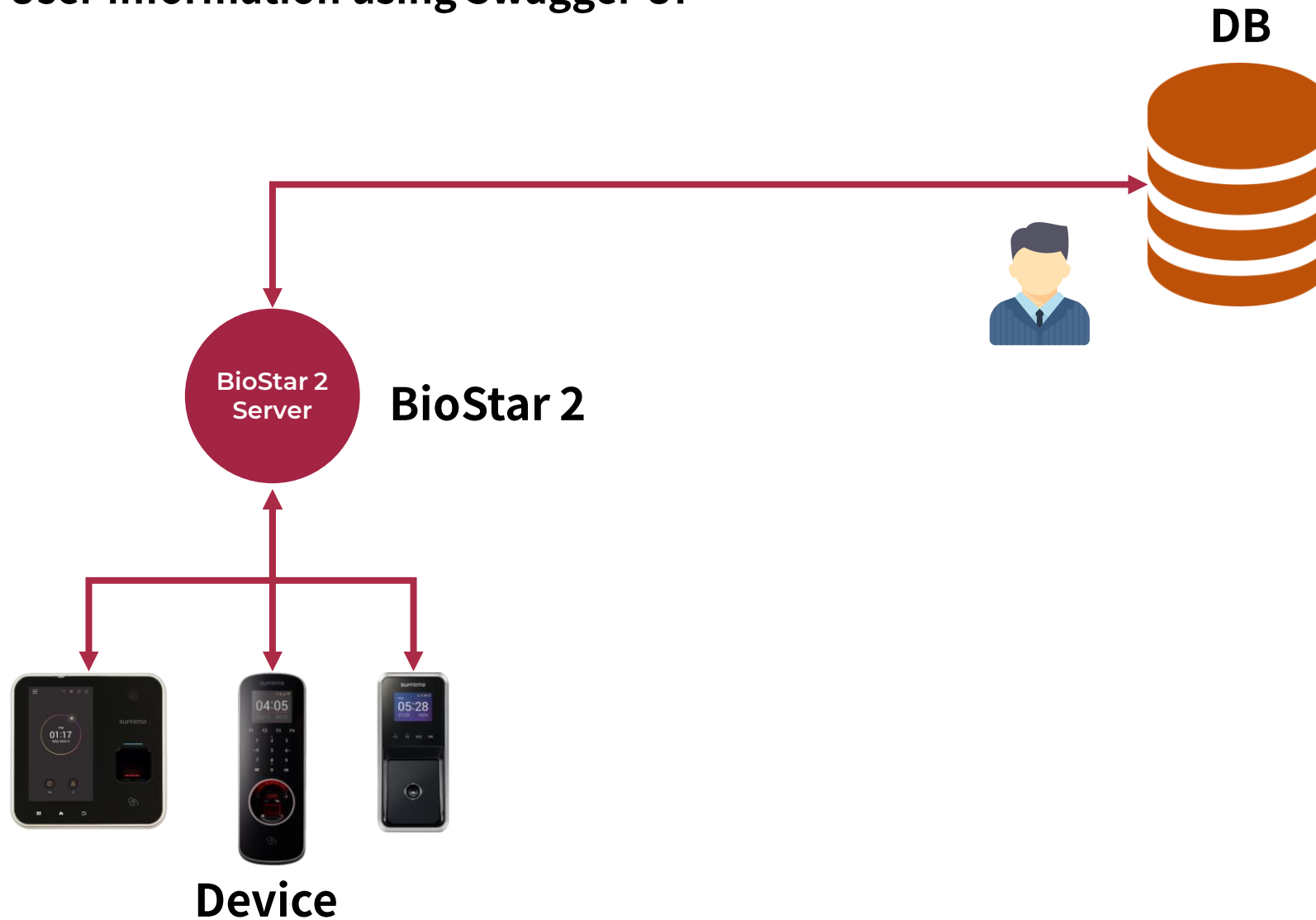
Parameter content type
application/json

```
{  "Query": {    "limit": 51,    "conditions": [      {        "column": "datetime",        "operator": 3,        "values": [          "2019-07-30T15:00:00.000Z"        ]      }    ],    "orders": [      {        "column": "datetime",        "descending": false      }    ]  } }
```

Try it out


How to use BioStar 2 New Local API

How to edit User Information using Swagger UI




How to use BioStar 2 New Local API

How to edit User Information using Swagger

UI `/api/users/{id}` 

Update User Information of User ID

PUT `/api/users/{id}` 

Parameters


Name	Description
id <small>★ required</small> string (path)	User ID (multiple ids [ex: 1+2+4] Default value : 9

body
(body)

Leave all the values to be edited and erase everything else

Example Value | Model

```
{
  "User": {
    "name": "test123",
    "email": "test123@suprema.co.kr",
    "photo": "Base64: RDQQFJYAVUYvFXsElzIQc1QYbodkHe...",
    "phone": "010-1111-2222",
    "user_group_id": {
      "id": 5351,
      "name": "All Users"
    },
    "disabled": "true",
    "start_datetime": "2001-01-02T00:00:00.00Z",
    "expiry_datetime": "2030-12-31T23:59:00.00Z",
    "permission": {
      "id": "255",
      "name": "normal User",
      "description": "string",
      "operators": [
        {
          "name": "test2",
          "owner_id": "255",
          "user_id": "3"
        }
      ]
    }
  },
  "access_groups": [
    {
      "name": "1",
```



```
{
  "User": {
    "name": "test123",
    "email": "test123@suprema.co.kr",
    "photo": "Base64: RDQQFJYAVUYvFXsElzIQc1QYbodkHe...",
    "phone": "010-1111-2222",
    "user_group_id": {
      "id": 5351,
      "name": "All Users"
    },
    "disabled": "true",
    "start_datetime": "2001-01-02T00:00:00.00Z",
    "expiry_datetime": "2030-12-31T23:59:00.00Z",
    "permission": {
      "id": "255",
      "name": "normal User",
      "description": "string",
      "operators": [
        {
          "name": "test2",
          "owner_id": "255",
          "user_id": "3"
        }
      ]
    }
  },
  "access_groups": [
    {
      "name": "1",
```


How to use BioStar 2 New Local API

Using Postman C# Example

How to use BioStar 2 New Local API

Using Postman - Login

Build

APIs together

Over 15 million developers use Postman. Get started by signing up or downloading the desktop app.

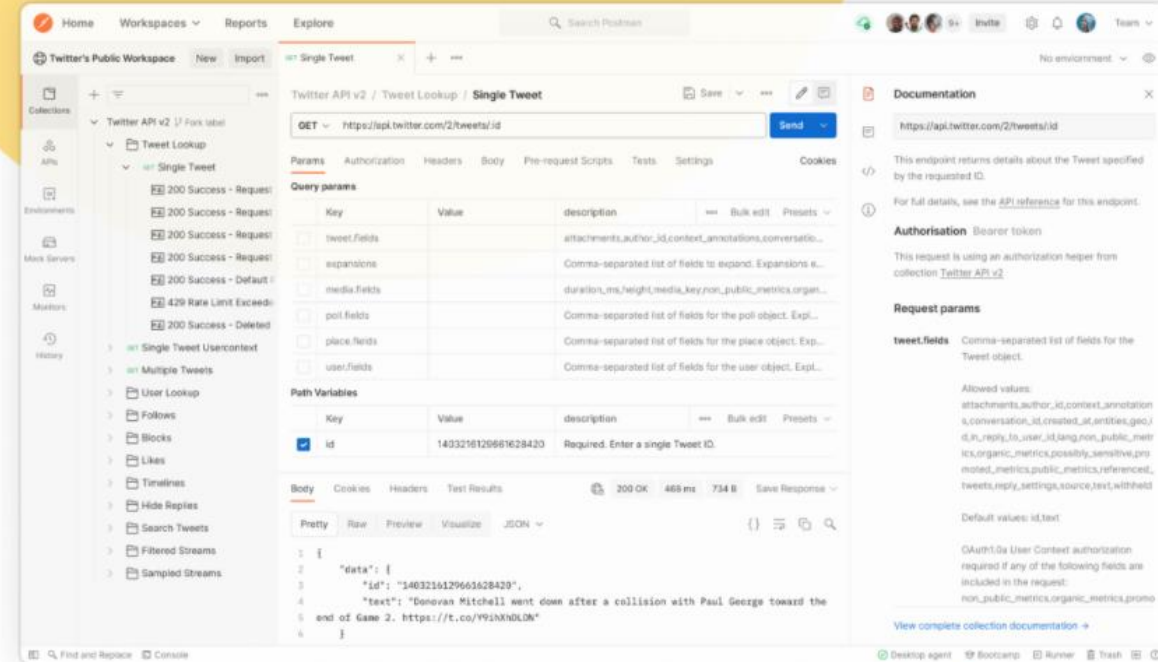
[Sign Up for Free](#)

Download the desktop app

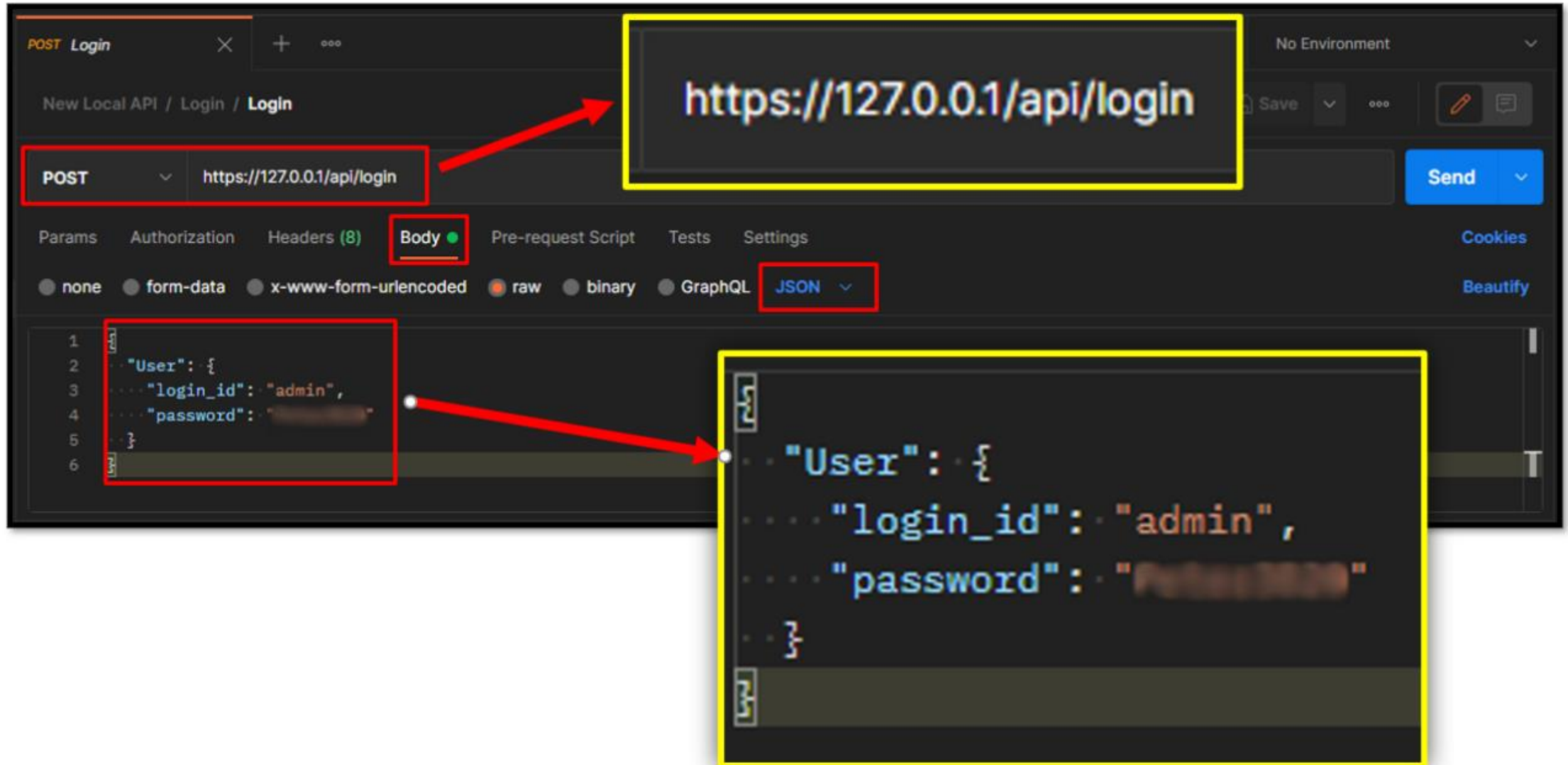


What is Postman?

Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.



How to use BioStar 2 New Local API



How to use BioStar 2 New Local API

The screenshot displays a REST client interface for a POST request to the endpoint `https://127.0.0.1/apl/login`. The request body is a JSON object with the following fields:

```
{
  "User": {
    "user_id": "1",
    "login_id": "admin",
    "password": "Password12!@#"
  }
}
```

The response body is a JSON object with the following fields:

```
{
  "User": {
    "user_id": "1",
    "name": "Administrator",
    "gender": "0",
    "email": "admin@suprema.co.kr",
    "photo_exists": "false",
    "pin": "Nkhc4k9k0MjPyKNDYq4ngyTwPEQ6rEMJMZIwmPB0+B0=",
    "pin_exists": "true",
    "login_id": "admin",
    "password_exists": "true",
    "updated_count": "116",
    "last_modified": "604",
    "idx_last_modified": "247",
    "start_datetime": "2001-01-01T00:00:00.00Z"
  }
}
```

A red box highlights the request body, and a red arrow points to the response body, which is also highlighted with a yellow box.

How to use BioStar 2 New Local API

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** `https://127.0.0.1/api/login`
- Body (JSON):**

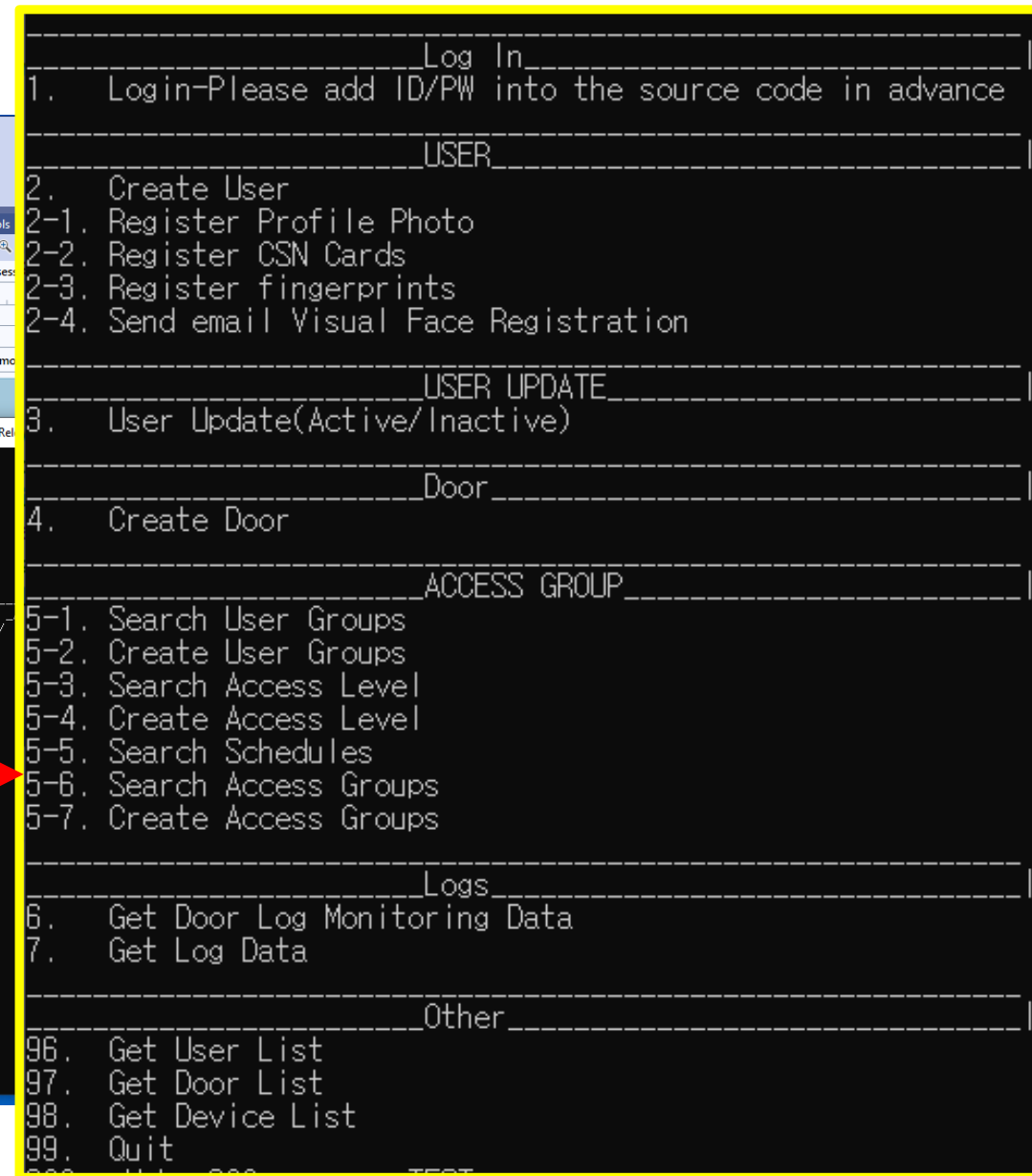
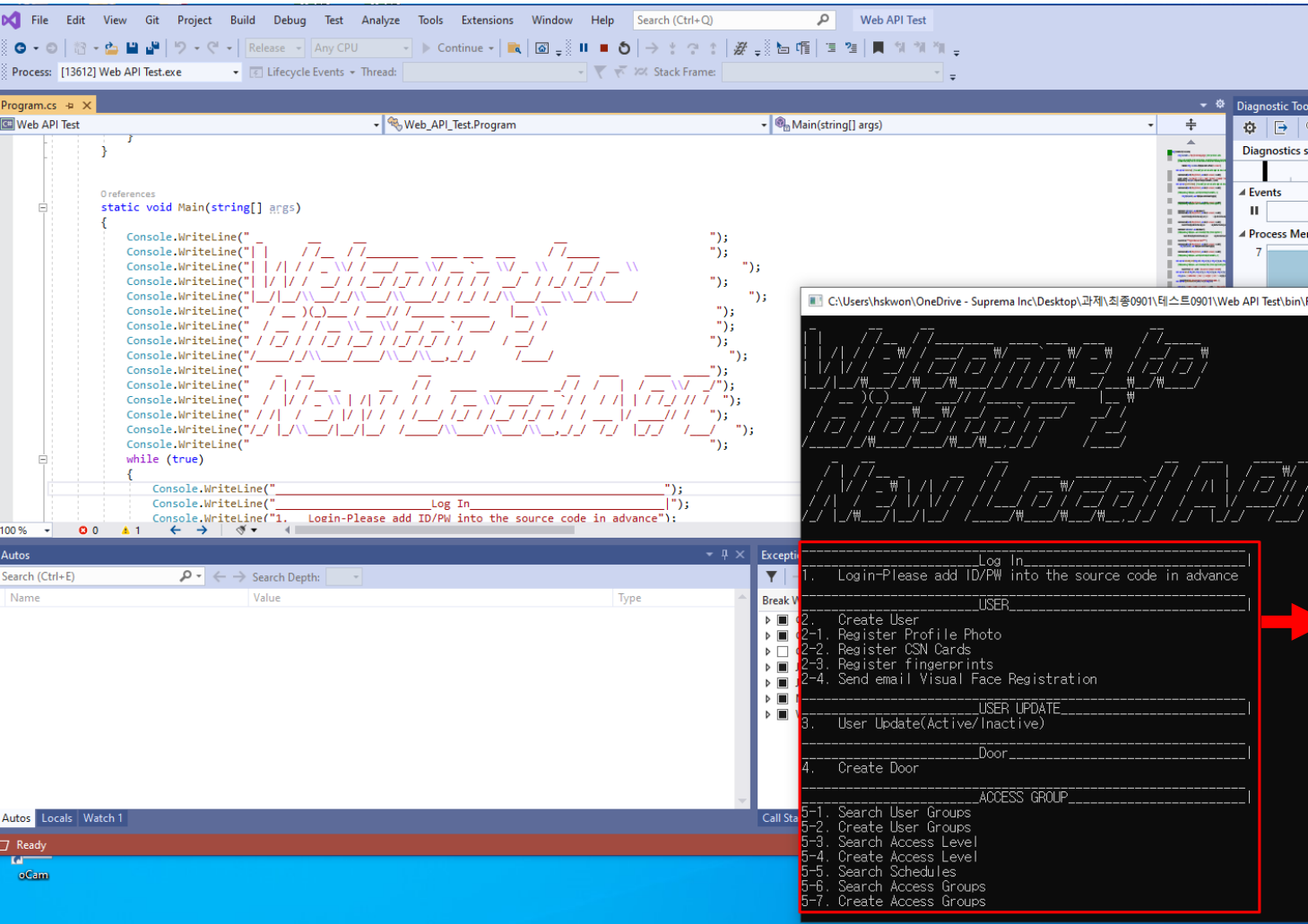
```
{  1  {  2    "User": {  3      "login_id": "admin",  4      "password": "Password12!@"  5    }  6  }
```
- Status:** 200 OK, Time: 28 ms, Size: 4.91 KB
- Headers (12):**

KEY	VALUE
Status ⓘ	200 OK
bs-session-id ⓘ	233766ffd5bf48aabf03a1644f9f4fc4
X-Content-Type-Options ⓘ	nosniff
X-XSS-Protection ⓘ	
Cache-Control ⓘ	
Pragma ⓘ	
Expires ⓘ	0
Strict-Transport-Security ⓘ	max-age=31536000 ; includeSubDomains
X-Frame-Options ⓘ	SAMEORIGIN

A red box highlights the `bs-session-id` header in the table, and a yellow callout box shows its value: `bs-session-id ⓘ` and `233766ffd5bf48aabf03a1644f9f4fc4`. A red arrow points from the header value in the table to the callout box.

How to use BioStar 2 New Local API

C# Example



FAQ about BioStar 2 New Local API

FAQ about BioStar 2 New Local API

Is there extra cost
if I want to use the New Local API?

**No, you do not need to pay for an additional cost.
BioStar 2 New Local API does not require any licenses.**

I'm using the old Local API now.
Can I use the New Local API?

**You can use the New Local API.
You can use Local API and New Local API at the same time.**

FAQ about BioStar 2 New Local API

I'm using BioStar 2 Local API now.
Can I just fix my URL to use the New Local API?

**No, you can not simply edit your URL to switch from Local API to New Local API.
You should consider the parameters since their parameter structures are different.**

Can I use my subdomain name in my API URL?

**Yes, you can use your subdomain name in your New Local API URL.
You can use your BioStar 2 IP or subdomain name in the URL.**

BioStar 2 New Local API

BioStar 2 New Local API Solutions



[BioStar 2 API] How to use and start BioStar 2 New Local API

A new API has been released with BioStar 2.7.10. There is the main difference from the old API server that the new API does not require a separate API s...

Sat, Aug 14, 2021 at 5:01 PM



[BioStar 2 API] The difference BioStar 2 Local API Server and BioStar 2 New Local API

From BioStar v2.7.10, BioStar 2 New Local API has been included in the BioStar2 AC server as default. APIs of BioStar2 New Local API is different from A...

Tue, Apr 6, 2021 at 2:21 PM



BioStar 2 New Local API Quick Start Guide(1) - Login

Introduction If you'd like to use BioStar 2 New Local API as a RESTful API for your own customization or other purposes, you can simply reference this arti...

Tue, Oct 19, 2021 at 3:59 PM



BioStar 2 New Local API Quick Start Guide(2) - Search Users

Introduction If you'd like to use BioStar 2 New Local API as a RESTful API for your own customization or other purposes, you can simply reference this arti...

Tue, Oct 19, 2021 at 4:17 PM



BioStar 2 New Local API Quick Start Guide(3) - Create Users

Introduction If you'd like to use BioStar 2 New Local API as a RESTful API for your own customization or other purposes, you can simply reference this arti...

'BioStar 2 New Local API'

A new section has been made in SUPREMA Technical Support Website for BioStar 2 New Local API users.

It consists of various examples of the New Local API usages and tips.

You can find it at

<https://support.supremainc.com/en/support/solutions/folders/24000012785>

Q&A

Thank you.