

# Application Knowledge

During my work with different applications I found some tricks and hints how to work with them. This is the collection I put together with the knowledge about it.

- Collaboration
  - Zimbra LDAP
- Debugging
  - Debugging RESTful API

# Collaboration

Collaboration Apps

# Zimbra LDAP

## Connect to Zimbra LDAP Server

```
zimbra @ mail: ~ $ zmlocalconfig -s zimbra_ldap_password ldap_master_url
```

the result will be something like

```
zimbra_ldap_password = thepassword  
ldap_master_url = ldap: // server: 389
```

## Connect to the LDAP Server with

```
LDAP Server address: ldap: // server  
LDAP Server port: 389  
Binddn LDAP: uid=zimbra,cn=admins,cn=zimbra  
LDAP password: thepassword  
LDAP base: dc=yourdomain_zimbra,dc=com
```

## Example LDAP Filter for Zimbra

```
(& (uid =% s)) for authentication user without @domain  
(& (mail =% s)) for the authentication with user@domain.com
```

# Debugging

The different debugging technics also in the cloud

# Debugging RESTful API

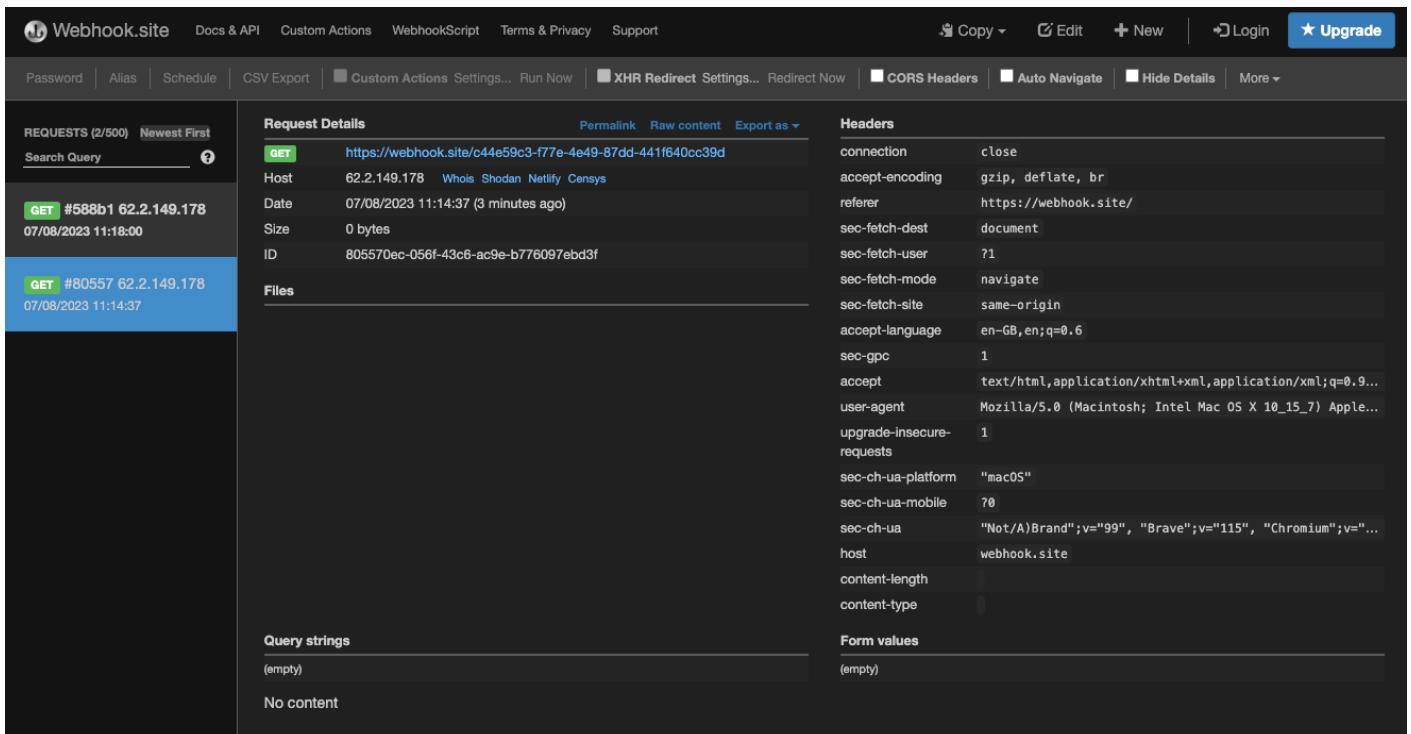
If you need to integrate for example IoT devices, you need maybe to check why the device is not able to connect to the server processing your location data or other data from a LoRaWAN Tracker or any other IoT device.

For this there's a very good service to see what kind of requests the IoT device or a middleware is making during an uplink of the data.

First the Selfhosted tools:

## webhook.site

With Webhook.site, you instantly get a unique, random URL that you can use to test and debug Webhooks and HTTP requests, as well as to create your own workflows using the Custom Actions graphical editor or WebhookScript, a simple scripting language, to transform, validate and process HTTP requests.



The screenshot displays the Webhook.site web application interface. At the top, there's a navigation bar with links for Docs & API, Custom Actions, WebhookScript, Terms & Privacy, and Support. On the right of the navigation bar are buttons for Copy, Edit, New, Login, and Upgrade. Below the navigation bar is a secondary bar with various filters and actions like Password, Alias, Schedule, CSV Export, Custom Actions Settings..., Run Now, XHR Redirect Settings..., Redirect Now, CORS Headers, Auto Navigate, Hide Details, and More. The main content area is divided into three sections. On the left, there's a 'REQUESTS (2/500)' list with a 'Newest First' sort option and a search bar. It shows two requests: a GET request to https://webhook.site/c44e59c3-f77e-4e49-87dd-441f640cc39d and another GET request to https://webhook.site/805570ec-056f-43c6-ac9e-b776097ebd3f. The middle section, titled 'Request Details', shows the details for the selected GET request, including Host (62.2.149.178), Date (07/08/2023 11:14:37), Size (0 bytes), ID (805570ec-056f-43c6-ac9e-b776097ebd3f), and Files (empty). The right section, titled 'Headers', lists various HTTP headers such as connection, accept-encoding, referer, sec-fetch-dest, sec-fetch-user, sec-fetch-mode, sec-fetch-site, accept-language, sec-gpc, accept, user-agent, upgrade-insecure-requests, sec-ch-ua-platform, sec-ch-ua-mobile, sec-ch-ua, host, content-length, content-type, and Form values.

REQUESTS (2/500)	Request Details	Headers
<b>GET</b> #588b1 62.2.149.178 07/08/2023 11:18:00	<b>GET</b> https://webhook.site/c44e59c3-f77e-4e49-87dd-441f640cc39d Host: 62.2.149.178 Date: 07/08/2023 11:14:37 (3 minutes ago) Size: 0 bytes ID: 805570ec-056f-43c6-ac9e-b776097ebd3f	connection: close accept-encoding: gzip, deflate, br referer: https://webhook.site/ sec-fetch-dest: document sec-fetch-user: ?1 sec-fetch-mode: navigate sec-fetch-site: same-origin accept-language: en-GB,en;q=0.6 sec-gpc: 1 accept: text/html,application/xhtml+xml,application/xml;q=0.9... user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) Apple... upgrade-insecure-requests: 1 sec-ch-ua-platform: "macOS" sec-ch-ua-mobile: ?0 sec-ch-ua: "Not/A)Brand";v="99", "Brave";v="115", "Chromium";v="... host: webhook.site content-length: content-type: Form values: (empty)
<b>GET</b> #80557 62.2.149.178 07/08/2023 11:14:37	<b>Files</b>  <b>Query strings</b> (empty) No content	







Github Development Page: <https://github.com/webhooksite/webhook.site>

Docker Image: <https://hub.docker.com/r/webhooksite/webhook.site>

# Request Baskets

Request Baskets is a web service to collect arbitrary HTTP requests and inspect them via RESTful API or simple web UI.

Request Baskets



Basket: demo

Requests: 3 (3)

[DELETE]

⌚ 4:09:56 PM  
📅 8/15/2016

/demo/123

Headers

[POST]

⌚ 4:09:23 PM  
📅 8/15/2016

/demo

Headers

Body

```
{
  "id": 45902,
  "type": "image",
  "size": {
    "x": 1200,
    "y": 800
  }
}
```

[GET]

⌚ 4:07:51 PM  
📅 8/15/2016

/demo?name=Peter+Pan&value=923831

Headers

Query Params

There's also a docker image here: <https://hub.docker.com/r/darklynx/request-baskets>

## Beeceptor

With beeceptor you Build mock APIs in a few seconds, Inspect & Intercept HTTP requests.

With the free plan you can create 50 requests/day, see the pricing here:

<https://beeceptor.com/pricing>

Very interesting is the inspection of HTTP request, check it out: <https://beeceptor.com/docs/inspect-http-request-payloads/>

#endpoint.free.beeceptor.com <sup>2</sup>

Rules enabled

<https://endpoint.free.beeceptor.com> → {nowhere}

⚙ Mocking Rules (15)

☰ Proxy Setup

## Looks Awesome!

The following endpoint is all set up. Use it in your code as base URL and send a request. You can inspect these requests here and build rules to mock responses.

<https://endpoint.free.beeceptor.com>

For example, run the following command in shell/terminal to get started.

```
curl -v -X POST 'https://endpoint.free.beeceptor.com/my/api/path' -H 'Content-Type: application/json' -d '{"data": "Hello Beeceptor"}'
```

(or [click here](#) to simulate in web-browser)

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## PostBin

Programmatically Test your API Clients or Webhooks.

<https://postb.in/>

## RequestBin

Inspect webhooks and HTTP requests.

Get a URL to collect HTTP or webhook requests and inspect them in a human-friendly way. Optionally connect APIs, run code and return a custom response on each request.

<https://requestbin.com>

## More Tools

Link	Description
<a href="https://transfer.symbiose.com/download/info/">https://transfer.symbiose.com/download/info/</a>	Info about request headers

Link	Description
<a href="https://httpbin.org/">https://httpbin.org/</a>	Analysis for request and responses