FireFly Runbook - Postman Setup

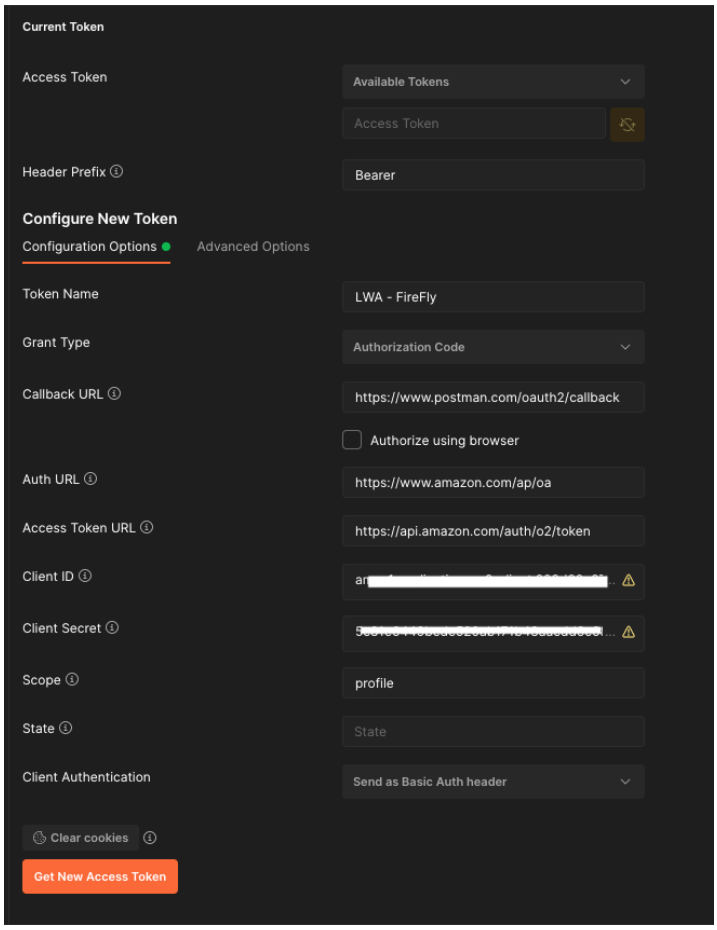
Overview

This document aims to help provide instructions for setting up a Postman client to use against the FireFly Stack. For simplicity this document will show routes pertaining to the REST api endpoints, however the process applies to both GraphQL and REST endpoints.

Configuring OAuth2:

In order to configure OAuth2 to be used with LWA (LoginWithAmazon), we need to reference the ApplicationId, ClientId, ClientSecret, as well as provide safe listed url's for: callback, auth and token Urls. For AmazonMusic developers this has already been taken care of by the FireFly team.

Start by navigating to the ***Authorization*** tab(create a tab by clicking "+" in the main pane and find "Authorization" tab), change the *Type* dropdown to 'OAuth2.0', finally select 'Manage Access



Token Name: 'LWA - FireFly'
Callback URL: https://www.postman.com/oauth2/callback
Auth URL: https://www.amazon.com/ap/oa
Access Token URL: https://api.amazon.com/auth/o2/token
Client ID:

```
Redacted
```

Client Secret:

```
Redacted
```

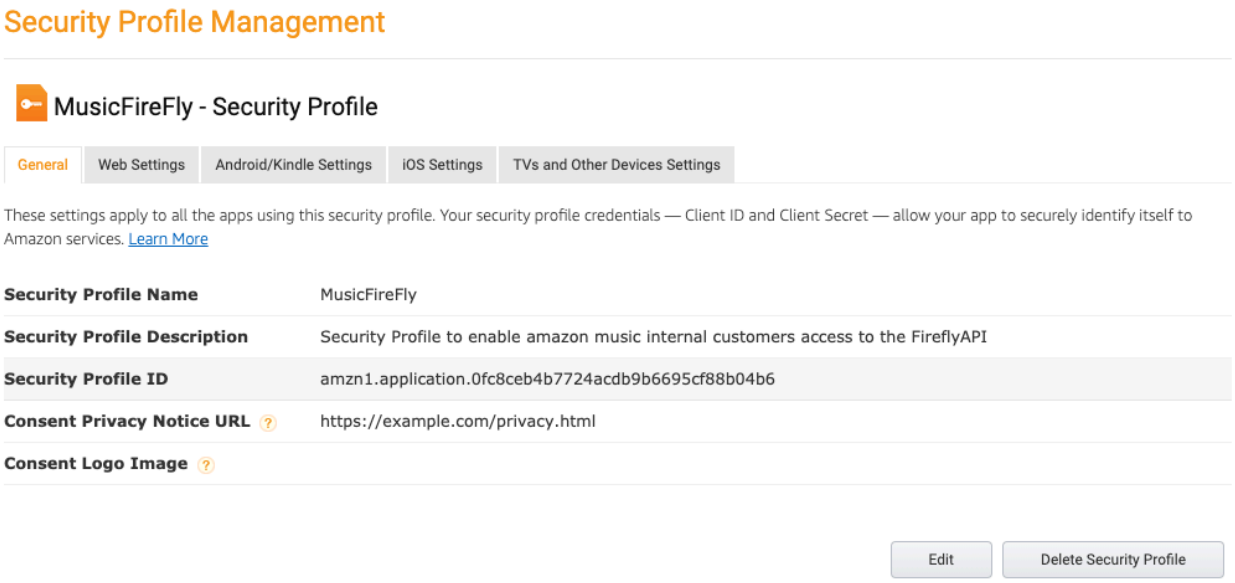
Scope: profile
Client Authentication: 'Send as Basic Auth header'

ADDENDUM - WHERE DOES THIS INFORMATION COME FROM?

The ClientId/Secret used for AmazonMusic developers can be found from the MusicFireFly LoginWith Amazon Account, see

reference images below:

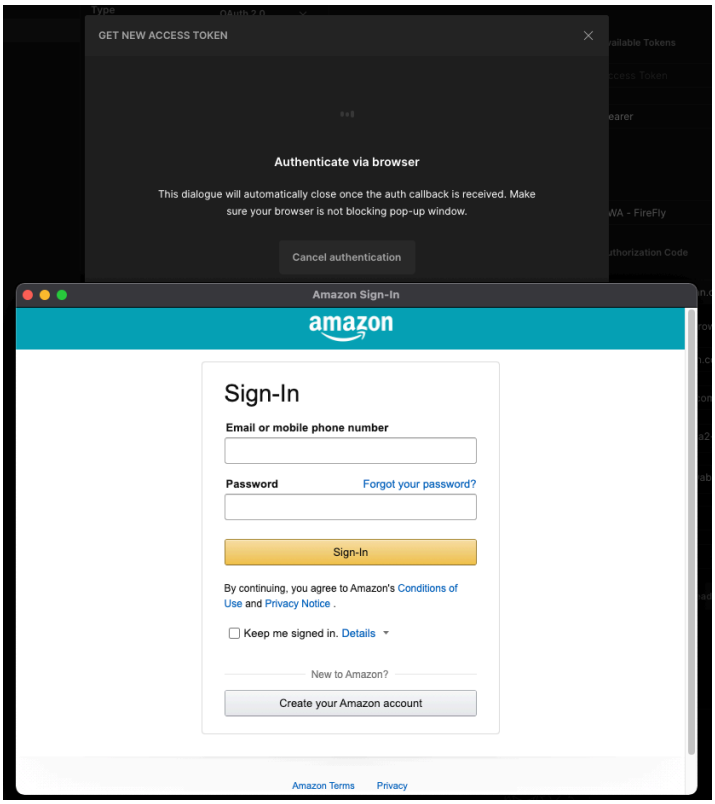
{screenshot of confidential information redacted}



> **Note:** *For access to LoginWithAmazon developer account(s) please reach out to PoC's; Ryder Stancescu, Yuri de Souza, or Johnson Cheng.*

Get New Access Token:

Once OAuth2 is configured, pressing *'Get New Access Token'* will prompt you to sign in with an Amazon account that is used for Amazon Music. After signing in, the access token section will be populated and you are free to make requests against the FireFly stack.



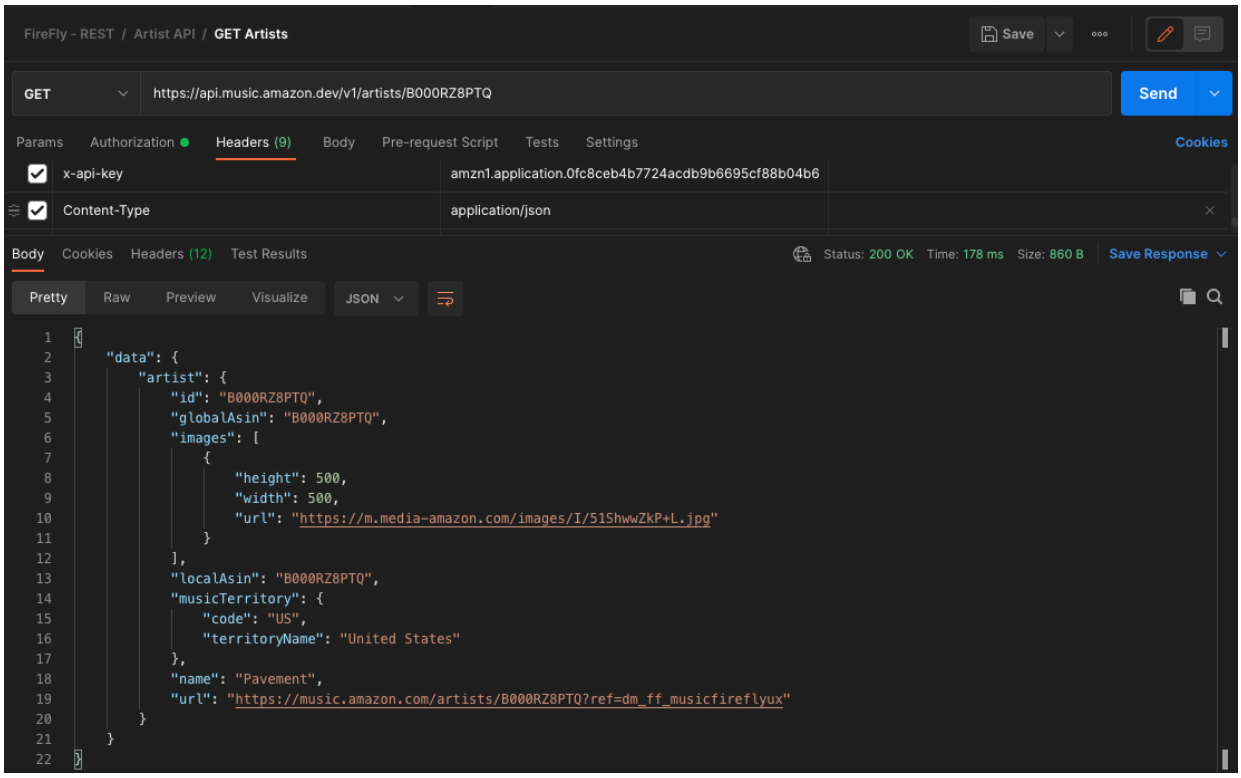
Invoking the REST API

The FireFly REST API can be accessed via the endpoint: `api.music.amazon.dev/v1`. BR
Prior to invoking be sure provide the following headers to be granted access in addition to guaranteeing proper response payloads.

HEADERS

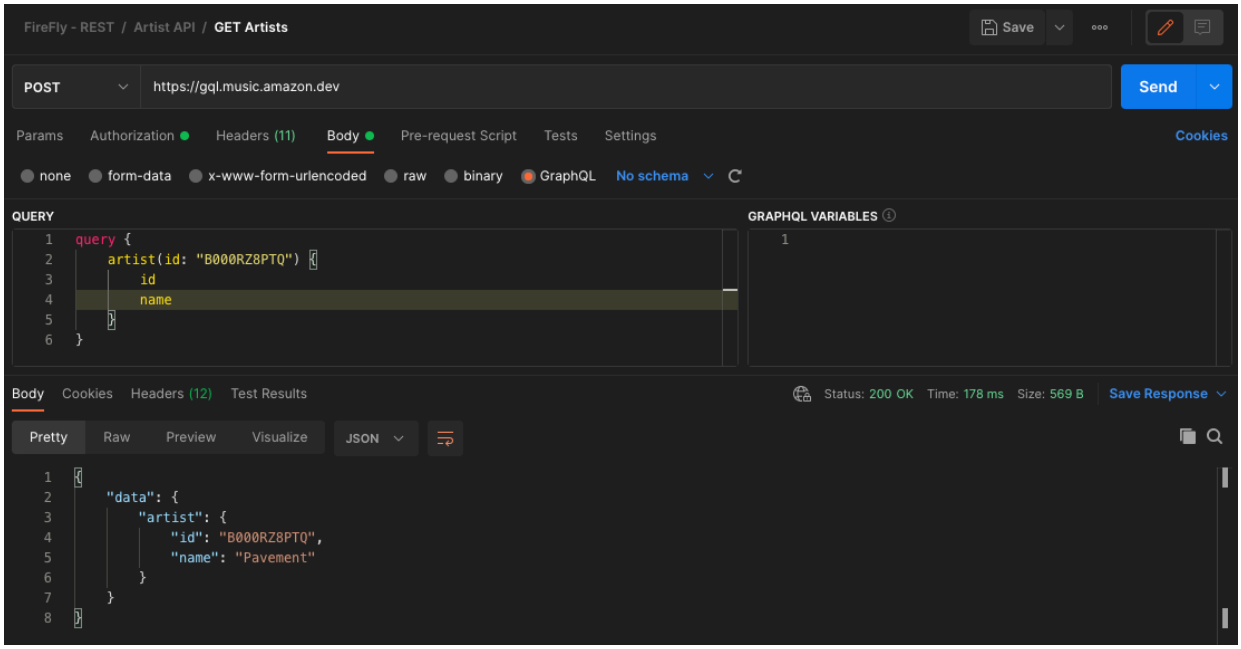
```
x-api-key:amzn1.application.0fc8ceb4b7724acdb9b6695cf88b04b6
Content-Type:Content-Type
```

EXAMPLE



Invoking the GraphQL API

The FireFly GraphQL API can be accessed via the endpoint:`https://gql.music.amazon.dev`.
The steps for invoking GraphQL are the exact same as above with the addition of changing request body to 'graphql' (note: to do this you have to be logged in to your Postman account), and the method to POST.



Example Query

```
query {
    track(id: "B0BS1XLZ75") {
        id
        audioQualities
    }
}
```

Importable Collection

Instead of following all the setup steps above, you can instead import this collection in Postman. The auth will be configured and it contains a few graphQL examples to help get you started. You will need to replace the placeholder client Id, client secret, dev endpoint, etc. You will also need to generate a new access token in the authorization section.


```
{
    "info": {
        "_postman_id": "4388c4bf-da26-4b40-a486-889865804e59",
        "name": "Firefly",
        "description": "Firefly Wiki - [https://w.amazon.com/bin/view/Amazon_Music/Fir
        "schema": "https://schema.getpostman.com/json/collection/v2.1.0/collection.jso
        "_exporter_id": "6885628"
    },
    "item": [
        {
            "name": "Basic GraphQL Test",
            "request": {
                "method": "POST",
                "header": [
                    {
                        "key": "x-api-key",
                        "value": "amzn1.application.0fc8ceb4b7724acdb9b6695cf88b04b6",
                        "type": "text"
                    },
                    {
                        "key": "Content-Type",
                        "value": "application/json",
                        "type": "text"
                    }
                ],
                "body": {
                    "mode": "graphql",
                    "graphql": {
                        "query": "query {\n    track(id: \"B0BS1XLZ75\") {\n        id
                        "variables": ""
                    }
                },
                "url": {
                    "raw": "{{prod_endpoint}}",
                    "host": [
                        "{{prod_endpoint}}"
                    ]
                }
```

```
            },
            "response": []
        },
        {
            "name": "Get user playlists",
            "event": [
                {
                    "listen": "prerequest",
                    "script": {
                        "exec": [
                            ""
                        ],
                        "type": "text/javascript"
                    }
                }
            ],
            "request": {
                "method": "POST",
                "header": [
                    {
                        "key": "x-api-key",
                        "value": "amzn1.application.0fc8ceb4b7724acdb9b6695cf88b04b6",
                        "type": "text"
                    },
                    {
                        "key": "Content-Type",
                        "value": "application/json",
                        "type": "text"
                    }
                ],
                "body": {
                    "mode": "graphql",
                    "graphql": {
                        "query": "query {\n    user(id: \"{{user_id}}\") {\n        pl
                        "variables": ""
                    }
                },
                "url": {
                    "raw": "{{prod_endpoint}}",
                    "host": [
                        "{{prod_endpoint}}"
                    ]
                }
            },
            "response": []
        },
        {
            "name": "Get profile URL",
            "event": [
                {
                    "listen": "prerequest",
                    "script": {
                        "exec": [
                            ""
                        ],
```

```
                        "type": "text/javascript"
                    }
                }
            ],
            "request": {
                "method": "POST",
                "header": [
                    {
                        "key": "x-api-key",
                        "value": "amzn1.application.0fc8ceb4b7724acdb9b6695cf88b04b6",
                        "type": "text"
                    },
                    {
                        "key": "Content-Type",
                        "value": "application/json",
                        "type": "text"
                    }
                ],
                "body": {
                    "mode": "graphql",
                    "graphql": {
                        "query": "query {\n    user(id: \"{{user_id}}\") {\n        pl
                        "variables": ""
                    }
                },
                "url": {
                    "raw": "{{prod_endpoint}}",
                    "host": [
                        "{{prod_endpoint}}"
                    ]
                }
            },
            "response": []
        },
        {
            "name": "Get user tracks",
            "event": [
                {
                    "listen": "prerequest",
                    "script": {
                        "exec": [
                            ""
                        ],
                        "type": "text/javascript"
                    }
                }
            ],
            "request": {
                "method": "POST",
                "header": [
                    {
                        "key": "x-api-key",
                        "value": "amzn1.application.0fc8ceb4b7724acdb9b6695cf88b04b6",
                        "type": "text"
                    },
```

```
                    {
                        "key": "Content-Type",
                        "value": "application/json",
                        "type": "text"
                    }
                ],
                "body": {
                    "mode": "graphql",
                    "graphql": {
                        "query": "query {\n    user(id: \"{{user_id}}\") {\n        tr
                        "variables": ""
                    }
                },
                "url": {
                    "raw": "{{prod_endpoint}}",
                    "host": [
                        "{{prod_endpoint}}"
                    ]
                }
            },
            "response": []
        },
        {
            "name": "Get followed artists",
            "event": [
                {
                    "listen": "prerequest",
                    "script": {
                        "exec": [
                            ""
                        ],
                        "type": "text/javascript"
                    }
                }
            ],
            "request": {
                "method": "POST",
                "header": [
                    {
                        "key": "x-api-key",
                        "value": "amzn1.application.0fc8ceb4b7724acdb9b6695cf88b04b6",
                        "type": "text"
                    },
                    {
                        "key": "Content-Type",
                        "value": "application/json",
                        "type": "text"
                    }
                ],
                "body": {
                    "mode": "graphql",
                    "graphql": {
                        "query": "query {\n    user(id: \"{{user_id}}\") {\n        fo
                        "variables": ""
                    }
```

```
                },
                "url": {
                    "raw": "{{prod_endpoint}}",
                    "host": [
                        "{{prod_endpoint}}"
                    ]
                }
            },
            "response": []
        }
    ],
    "auth": {
        "type": "oauth2",
        "oauth2": [
            {
                "key": "clientSecret",
                "value": "{{client_secret}}",
                "type": "string"
            },
            {
                "key": "clientId",
                "value": "{{client_id}}",
                "type": "string"
            },
            {
                "key": "scope",
                "value": "profile",
                "type": "string"
            },
            {
                "key": "accessTokenUrl",
                "value": "https://api.amazon.com/auth/o2/token",
                "type": "string"
            },
            {
                "key": "authUrl",
                "value": "https://www.amazon.com/ap/oa",
                "type": "string"
            },
            {
                "key": "redirect_uri",
                "value": "https://www.postman.com/oauth2/callback",
                "type": "string"
            },
            {
                "key": "tokenName",
                "value": "LWA - FireFly",
                "type": "string"
            },
            {
                "key": "addTokenTo",
                "value": "header",
                "type": "string"
            }
        ]
```

```
    },
    "event": [
        {
            "listen": "prerequest",
            "script": {
                "type": "text/javascript",
                "exec": [
                    ""
                ]
            }
        },
        {
            "listen": "test",
            "script": {
                "type": "text/javascript",
                "exec": [
                    ""
                ]
            }
        }
    ],
    "variable": [
        {
            "key": "client_id",
            "value": "YOUR_CLIENT_ID",
            "type": "string"
        },
        {
            "key": "client_secret",
            "value": "YOUR_CLIENT_SECRET",
            "type": "string"
        },
        {
            "key": "user_id",
            "value": "YOUR_USER_ID",
            "type": "string"
        },
        {
            "key": "dev_endpoint",
            "value": "YOUR_DEV_ENDPOINT",
            "type": "string"
        },
        {
            "key": "prod_endpoint",
            "value": "https://gql.music.amazon.dev",
            "type": "string"
        }
    ]
}
```