Lily Dam

Web API

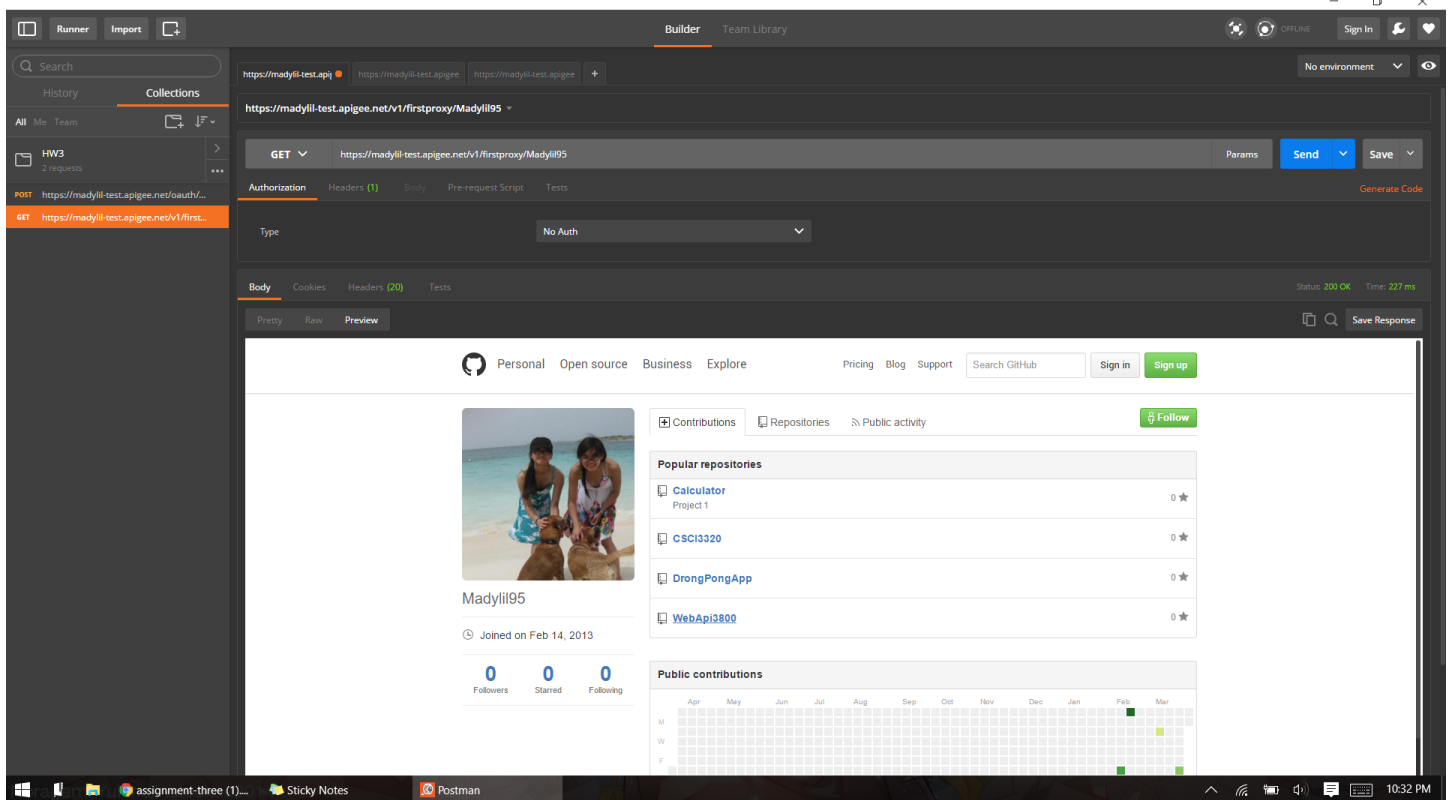**March 28, 2016**

<div align="center">

HW3 : README

</div>

Included:

- HW3.json.postman_collection
  - One Get request for the first proxy. Goes to my profile page in GitHub
  - One Post request for the second proxy. Creates a token, using my client_id and client_secret
- FirstProxy_rev1_2016_03_29
  - Revision downloaded from my account.
- Git2Proxy_rev1_2016_03_29
  - Revision downloaded from my account.

Screen shots:

{
    "issued_at": "1459225976016",
    "application_name": "158d8728-7f62-4fd9-8f62-fb0490ded258",
    "scope": "READ",
    "status": "approved",
    "api_product_list": "[PremiumWeatherAPI]",
    "expires_in": "3599",
    "developer.email": "tesla@weathersample.com",
    "token_type": "BearerToken",
    "client_id": "r8UV8u1aAgkhUhtJbmyCRqIxjNTlsjMO",
    "access_token": "47uu2uyDAMTtAOzYlnN0HsYohM3O",
    "organization_name": "madylil",
    "refresh_token_expires_in": "0",
    "refresh_count": "0"
}

POST https://madylil-test.apigee.net/oauth/client_credential/accesstoken?grant_type=client_credentials

https://madylil-test.apigee.net/oauth/client_credential/accesstoken?grant_type=client_credentials

Params | Send | Save

Authorization | Headers | Body | Pre-request Script | Tests   Generate Code

form-data x-www-form-urlencoded raw binary

client_id   r8UV8u1aAgkhUhtJbmyCRqIxjNTlsjMO
client_secret   eb8yMVcLC3uxAb1l
key   value

Body | Cookies | Headers (5) | Tests   Status: 200 OK   Time: 123 ms

Pretty | Raw | Preview | JSON   Save Response

---

apigee   Dashboard APIs Publish Analytics Admin Help   lily.dam@ucdenver.edu ▾   API Management ▾   Organization madylil

Dashboard / API Proxies / FirstProxy / Develop / 1

FirstProxy What's new in the Proxy Editor   ACCESS THE CLASSIC VERSION OF PROXY EDITOR
OVERVIEW DEVELOP TRACE PERFORMANCE

Project ▾ Save Revision 1 ▾   Tools ▾ Deployment ▾   Help for Selected Flow   Search

Navigator   Flow: Madylil95   Property Inspector Madylil95
FirstProxy   Flow
Policies   name   Madylil95
Proxy Endpoints   Step   Description
  default   Request
    All PreFlow   REQUEST   Response
    GET Madylil95   Condition   (proxy.pathsuffix MatchesPath "/M
    All PostFlow   RESPONSE
Target Endpoints
  default   Step
    All PreFlow
    All PostFlow
Scripts

Code default
```
1   <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2   <ProxyEndpoint name="default">
3       <Description/>
4       <FaultRules/>
5       <PreFlow name="PreFlow">
6           <Request/>
7           <Response/>
8       </PreFlow>
9       <PostFlow name="PostFlow">
10          <Request/>
11          <Response/>
12      </PostFlow>
13      <Flows>
14          <Flow name="Madylil95">
15              <Description/>
16              <Request/>
17              <Response/>
18              <Condition>(proxy.pathsuffix MatchesPath "/Madylil95") and (request.verb = "GET")</Condition>
19          </Flow>
20      </Flows>
21      <HTTPProxyConnection>
22          <BasePath>/v1/firstproxy</BasePath>
23          <Properties/>
24          <VirtualHost>default</VirtualHost>
25          <VirtualHost>secure</VirtualHost>
26      </HTTPProxyConnection>
27      <RouteRule name="default">
28          <TargetEndpoint>default</TargetEndpoint>
29      </RouteRule>
30  </ProxyEndpoint>
```

Deployed to test

Apigee — Dashboard | APIs | Publish | Analytics | Admin | Help — lily.dam@ucdenver.edu — API Management

Organization madyill

Dashboard / API Proxies / Git2Proxy / Develop / 1

Git2Proxy *What's new in the Proxy Editor*

ACCESS THE CLASSIC VERSION OF PROXY EDITOR

OVERVIEW | DEVELOP | TRACE | PERFORMANCE

Project ▾ | Save | Revision 1 ▾ | Tools ▾ | Deployment ▾ | Help for Selected | Flow

Navigator
- Git2Proxy
- ▾ Policies
  - Remove Header Authorization
  - ValidateOAuth
  - Verify OAuth v2.0 Access Token
- ▾ Proxy Endpoints
  - ▾ default
    - All PreFlow
    - GET LilyD
    - All Authorize
    - All PostFlow
- ▾ Target Endpoints
  - ▾ default
    - All PreFlow
    - All PostFlow
- ▾ Scripts

Flow: PreFlow

Verify O Auth v... | Remove Heade...

REQUEST
RESPONSE
Step

Property Inspector PreFlow
- PreFlow
- name: PreFlow
- Request
- Step
- Name: verify-oauth-v2-access-token
- Step
- Name: remove-header-authorization
- Response

Code: default

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ProxyEndpoint name="default">
    <Description/>
    <FaultRules/>
    <PreFlow name="PreFlow">
        <Request>
            <Step>
                <Name>verify-oauth-v2-access-token</Name>
            </Step>
            <Step>
                <Name>remove-header-authorization</Name>
            </Step>
        </Request>
        <Response/>
    </PreFlow>
    <PostFlow name="PostFlow">
        <Request/>
        <Response/>
    </PostFlow>
    <Flows>
        <Flow name="LilyD">
            <Description/>
            <Request>
                <Step>
                    <Name>ValidateOAuth</Name>
                </Step>
            </Request>
            <Response/>
            <Condition>(proxy.pathsuffix MatchesPath "/LilyD") and (request.verb = "GET")</Condition>
        </Flow>
        <Flow name="Authorize">
            <Description/>
            <Request/>
            <Response/>
            <Condition>proxy.pathsuffix MatchesPath "/LilyD"</Condition>
        </Flow>
    </Flows>
    <HTTPProxyConnection>
        <BasePath>/git2proxy</BasePath>
        <Properties/>
```
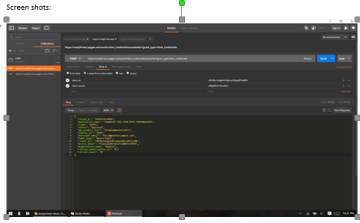
Deployed to test

Screenshots — This PC › Pictures › Screenshots

Quick access: Desktop, Documents, Pictures, EOP, DronePong, Katanagatari, Screenshots, St. Louis Parish

OneDrive: Documents, Pictures

This PC: Desktop, Documents, Downloads, Music, Pictures, Videos, Windows (C:), RECOVERY (D:)

Network

Screenshot (24) | Screenshot (25) | Screenshot (26) | Screenshot (27) | Screenshot (28)
Screenshot (29) | Screenshot (30)

7 items | 1 item selected 194 KB | State: Shared

Document1 - Microsoft Word

Lily Dam

Web API

March 28, 2016

HW3: README

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Screen shots:

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Screenshots | Web API Technologies... | Sticky Notes | Postman | Document1 - Microso... | 10:47 PM

Give one reason OAuth tokens should not be granted in the main flow, assuming the user has sent in the correct credentials.

Tokens are issued to allow access to specific resources for a specified period of time and may be revoked by the user that granted permission or by the server that issued the token. They must be protected, and OAuth requires that all API traffic be sent via SSL. Hence, granting them in the main flow would make the token too exposed.