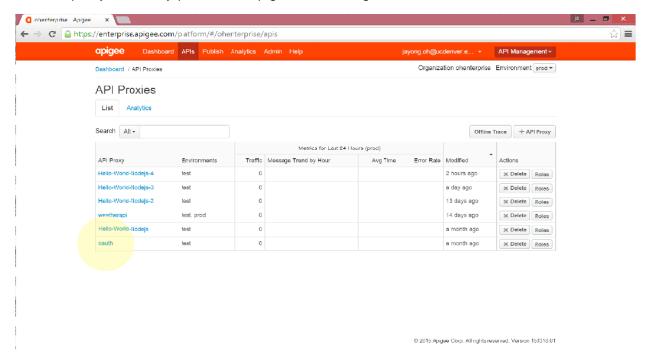
• Create two proxies on Apigee, one to accept the request that is routed to Github and another to create and revoke OAuth licenses. – The primary proxy should only accept GET requests

The first proxy is already part of the Apigee API Management list of default API Proxies



This proxy is called to get the access token. This is the steps in which I accessed this proxy to get my token.

1. I created my Proxy called, "Homework3"



2. I published my App in the developer Apps



3. I gained access to my customer key and secret



4. I then took these two ID and secret, and using 'curl' command from terminal, I gained my access token.

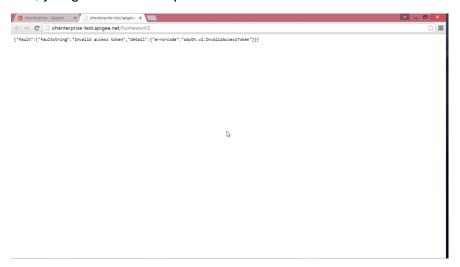
```
ja@ja-VPCSC31FH:-$ curl https://ohenterprise-test.apigee.net/oauth/client_creden
tlal/accesstoken/grant_type=client_credentials - X POST - d 'client_id=gagct4#ur71
EVPCKnahpyDoSMyrCZQiaCkient_secret=jHLkMulcCkODqSi'

{
    "issued_at" : "1427847447222",
    "application_name" : 'ffdf9bad-ce46-477e-a66b-64d60122ff26",
    "scope" : "
    "status : " [Honework3]",
    "status : " [Honework3]",
    "status : " [Syong, oh@ucdenver.edu",
    "organization_id" : "0",
    ""organization_id" : "0",
    ""client_id" : "gagct4#ur72EVPCKnahpyBGVBAYGZQQi',
    "access_tokem" : "1Tc7PL31482B8Py2a43EB9aaTgtA",
    "organization_name" : "honenterprise",
    "refresh_token_expires_in" : "0",
    "refresh_token_expires_in" : "0",
    ""refresh_token_expires_in" : "0",
    ""refresh_token_expires_in" : "0",
    ""application_int" : "0",
    ""application_int" : "0",
    ""application_int" : "0",
    ""application_int" : "0",
    ""application_name" : "0",
    ""application_name" : "0",
    ""application_name" : "florPl31482B8Py2a43EB9aaTgtA",
    ""application_name" : "florPl31482BBPy3aaTgtA",
    ""application_name" : florPl31482BBPy3aaTgtA",
    ""application_name" : florPl31482BPy3aaTgtA",
    ""application_name"
```

5. With this token I have gained access to my server. This had nothing more than the "hello world" output at the testing of the access token. Further enhancement is made in the later steps

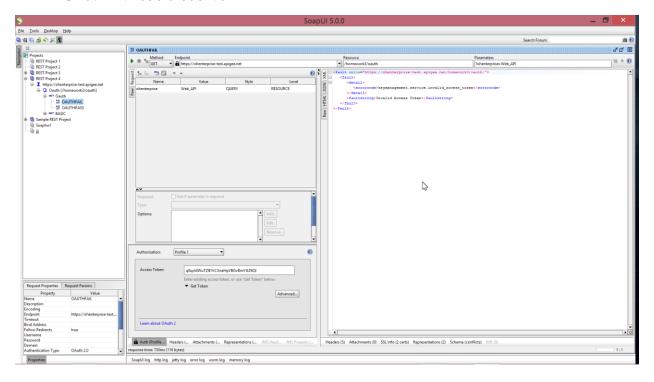
```
ja@ja-VPCSC3IFM:-$ curl -M <sup>™</sup>Authorization: Bearer qBqct4MuTZlEYrCXnaHpVBGVBmYGZ6
Ql<sup>+</sup> (http://ohenterprise-test.apigee.net/homework3
Hello, Moridija@ja-VPCSC3IFM:-$ ■
```

6. If you do not pass in the token through terminal, postman, or other client request module, you get a invalid response.

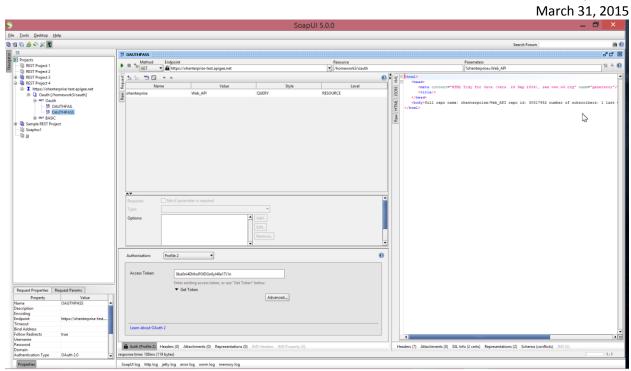


## This is the SOAPUI project

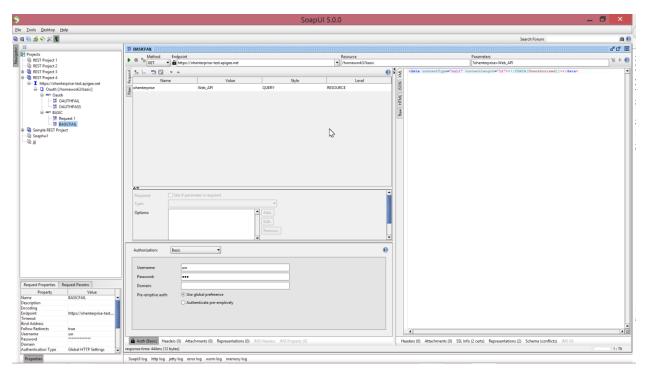
1 OAuth with bad credential:



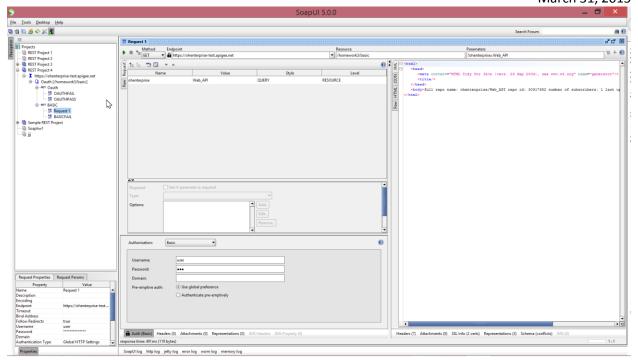
2. OAuth with good credentials:



3. BASIC with bad credential:



4. BASIC with good credentials:



• Answer the following question: – Basic Authorization is easily handled in the main flow, without the need for an additional proxy. Give one reason (there are many) OAuth tokens should not be granted in the main flow, assuming the user has sent in the correct credentials

This type of authentication adds another level of security that will make it even harder to gain access to a server. Basic authentication, access to the server can be easily found on the same server as the one you are trying to access. However, Oauth authentication requires you to get a token from another server and use that token to get granted access to the server you are trying to access. It is much like the certificate you might need to gain access to a server that is given by a third party.