Basic Authentication

It takes a username and password, Base64 encodes them, and writes the resulting value to a variable. The resulting value is in the form of Base64Encoded String.

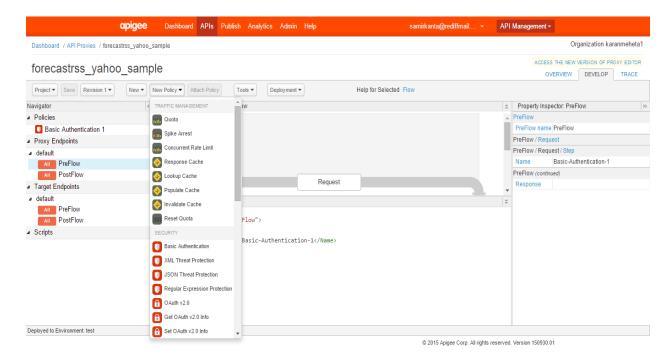
- Encode: Base64 encodes a username and password stored in variables
- Decode: Decodes the username and password from a Base64 encoded string

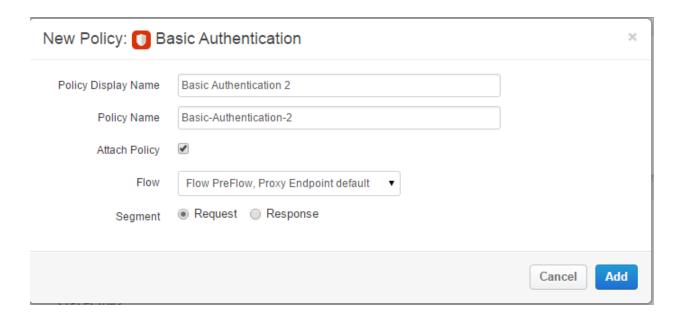
Here we used the sample yahoo weather URL which we used for Basic Authentication-

http://weather.yahooapis.com/forecastrss?w=12896

Step-1

First we need to select Basic Authentication From the Apigee Edge Console-

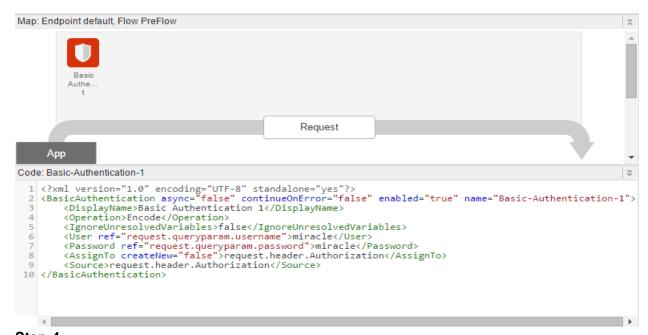




- Give any name in the place of Policy Display Name.
- Same for Policy Name.
- Select the flow as per your requirement.
- Select the Segment as well.

Step-3

This is the default code we will gate after selecting Basic Authentication Policy.



Step-4

Give your desired Username and Password in the code.



Here we gave Username as-miracle and Password as-miracle

Step-5

We need to pass username and password in the browser/Api Console-

http://karanmeheta1-test.apigee.net/v1/forecastrss_yahoo_sample?username=miracle&password=miracle

```
C 👔 🗅 karanmeheta 1-test. apigee.net/v1/forecastrss_yahoo_sample?username=miracle&password=miracle
👖 Apps 😠 Bookmarks 🛚 🙀 Live Cricket Streami... 🛗 DD national hindi ch... 🔼 Gmail - Inbox 🤌 Aptitude Questions ..
This XML file does not appear to have any style information associated with it. The document tree is shown below
▼<rss xmlns:yweather="http://xml.weather.yahoo.com/ns/rss/1.0" xmlns:geo="http://www.w3.org/2003/01/geo/wgs84_pos#" version="2.0">
    <title>Yahoo! Weather - Blacknest, GB</title>
     http://us.rd.yahoo.com/dailynews/rss/weather/Blacknest__GB/*http://weather.yahoo.com/forecast/UKXX4776_f.html
    </link>
<description>Yahoo! Weather for Blacknest, GB</description>
    <language>en-us</language>
<lastBuildDate>Wed, 02 Dec 2015 2:50 pm GMT</lastBuildDate>
    <title>Yahoo! Weather</title>
     <width>142</width>
<height>18</height>
     k>http://weather.yahoo.com</link>
     http://l.yimg.com/a/i/brand/purplelogo//uh/us/news-wea.gif
</url>
    </image>
  ▼<item>
     <title>Conditions for Blacknest, GB at 2:50 pm GMT</title>
<geo:lat>51.17</geo:lat>
      <geo:long>-0.86</geo:long>
     http://us.rd.yahoo.com/dailynews/rss/weather/Blacknest_GB/*http://weather.yahoo.com/forecast/UKXX4776_f.html
</link>
     <pubDate>Wed, 02 Dec 2015 2:50 pm GMT</pubDate>
       yweather:condition text="Mostly Cloudy" code="28" temp="54" date="Wed, 02 Dec 2015 2:50 pm GMT"/>
```

If we won't pass the username and password then we will get the error message like this-



OAuth 2.0

OAuth is an Open Authentication Framework, enables a third-party application to obtain limited access to an HTTP service.

OAuth allows notifying a resource provider (e.g. Twitter) that the resource owner (e.g. you) grants permission to a third-party (e.g. a Twitter Application) access to their information (e.g. the list of your tweets).

Step-1

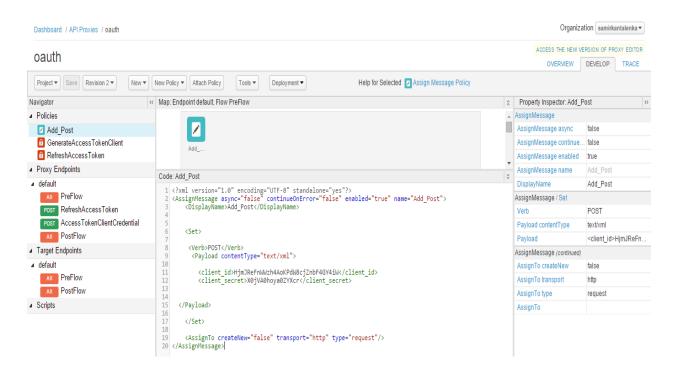
For providing security to the Applications in Apigee Edge, we are using OAuth 2.0 policy.

To achieve this we will use Postman(It is an Application where we can give the I/P and view the results).

As discussed earlier we need to generate **Consumer Key** and **Consumer Secret** by going into Developer Apps also by registering our Products and API Proxy.

• There is one default API Proxy called "oauth" is there in Apigee Edge Console by default soon after you login for the first time into Apigee Edge Console.

You have to add one Assign Message Policy into it, then the complete code looks like this-



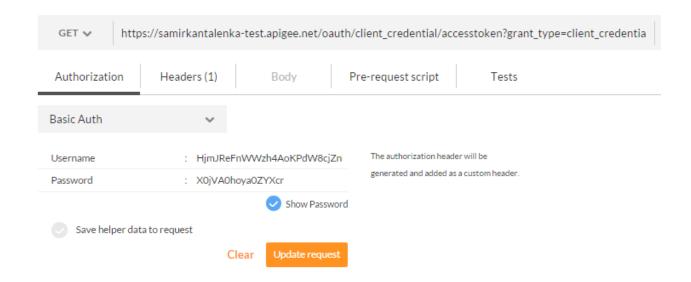
Complete Code-

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<AssignMessage async="false" continueOnError="false" enabled="true" name="Add_Post">
<DisplayName>Add_Post</DisplayName>
<Set>
<Verb>POST</Verb>
<Payload contentType="text/xml">
<cli>client_id>HjmJReFnWWzh4AoKPdW8cjZnbF4GY4iW</client_id>
<cli>client_secret>X0jVA0hoya0ZYXcr</client_secret>
```

```
</Payload>
</Set>
<AssignTo createNew="false" transport="http" type="request"/>
</AssignMessage>
```

The **Consumer Key** and **Consumer Secret** has to be mentioned in the code as shown in above code.

 Open Postman go to Authorization and Select Basic Auth form the drop down list and there give the Consumer Key in the place of Username and Consumer Secret in the place of Password as shown bellow-

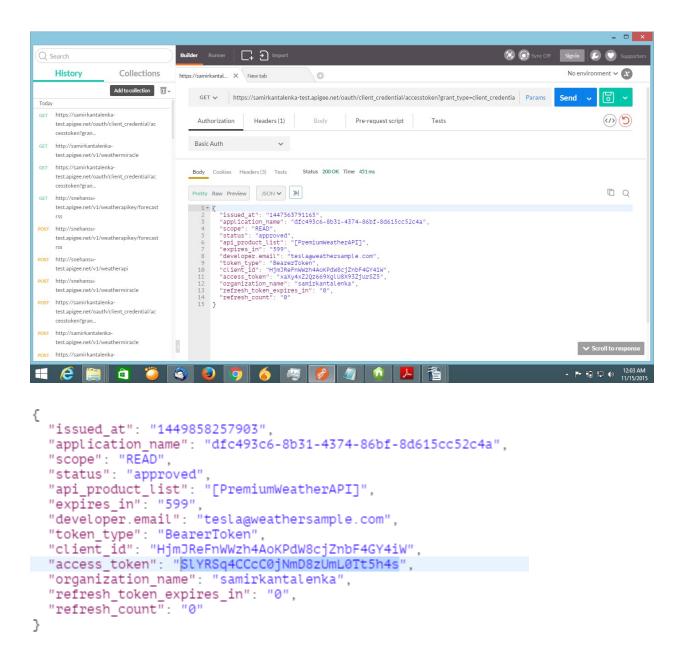


Pass the request URL as "GET" method and the URL will be-

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

Step-2

• After Passing the Username and Password from the Postman, Postman will generate one "Access Token".



Step-3

• We need to Pass that Access token from the Postman as Headers-Headers->In the Header field Pass Header as (Authorization) and Value as(Bearer:Pass the access token value) i:e-"Bearer:SIYRSq4CCcC0jNmD8zUmL0Tt5h4s".

The URL we need Pass is-

http://samirkantalenka-test.apigee.net/v1/weathermiracle

The output we will get like this-

