

## Rate Limiting for API Proxy (Quota Policy):

To configure the number of request messages that an API proxy allows over a period of time, such as a second, minute, hour, day, week, or month. You can set the quota to be the same for all apps accessing the API proxy, or you can set the quota based on:

- The product that contains the API proxy
- The app requesting the API
- The app developer
- Many other criteria

Using Quota policies you can, for example, limit apps to 1 request per minute, or to 10,000 requests per month. For example, if you have three API proxies in an API product, a single quota is not shared across all three even if all three use the same quota policy configuration.

### Step 1:

Initially, create an API Proxy by providing Backend Service URL and Project Base path.

**New API Proxy**

**1 Choose Your Starting Point**

Starting Point Type \* ☒ Backend Service ☐ API Bundle ☐ WSDL ☐ No Target ☐ New Node.js ☐ Existing Node.js

Backend Service URL \*   
Defines the target URL invoked on behalf of this API proxy. Any URL that is accessible over the open Internet can be used. Example: https://weather.yahooapis.com

**2 Identify Your API Proxy**

Name \*   
Valid characters are letters, numbers, dash (-), and underscore (\_).

Project Base Path \*   
A path component that uniquely identifies this API proxy. The public-facing URL of this API proxy is comprised of your organization name, an environment where this API proxy is deployed, and this Base Path. Example URL: http://samir.kantalekha-test.apigee.net/v1/weatherquota

Description

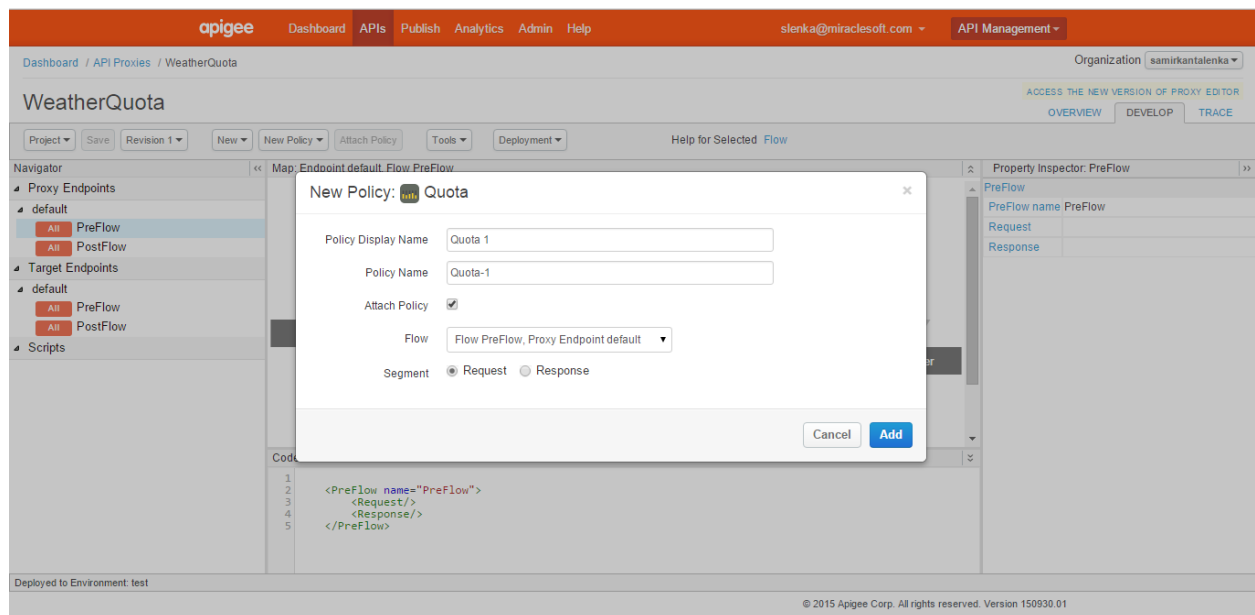
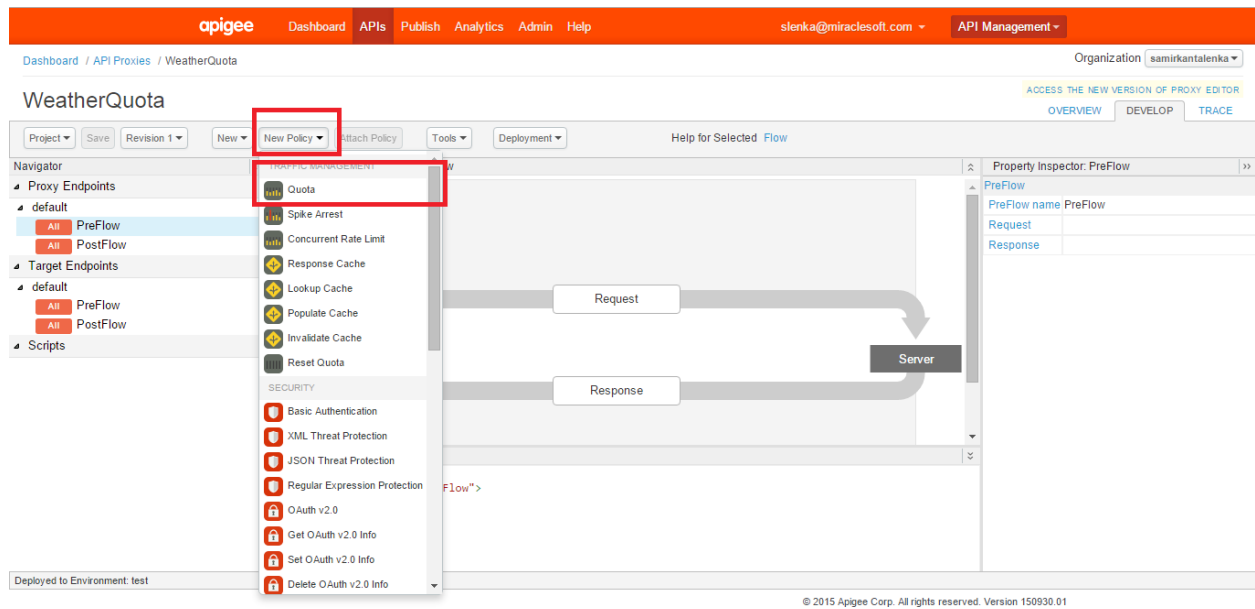
**3 Add Features**

Security ☒ None ☐ Secure with API Keys ☐ Secure with OAuth v2.0 Access Tokens ☐ Impose Quota per Developer ☐ Publish API Product

Browser Access ☐ Enable Direct Browser Access for Your API — Allow direct requests from a browser via CORS.

## Step 2:

In order to give restriction for the user based on the hits, select **Quota Policy** in **New Policy** tab



## Step 3:

Here select the *Quota Policy* and edit the code and specify the *Time limit* based on our requirement.

Dashboard / API Proxies / WeatherQuota

Submitting revision to the server.

Organization: samirkantalenka

ACCESS THE NEW VERSION OF PROXY EDITOR

OVERVIEW DEVELOP TRACE

Project Save Revision 1 New New Policy Attach Policy Tools Deployment Help for Selected Quota Policy

Navigator

- Polices
  - Quota 1
- Proxy Endpoints
  - default
    - PreFlow
    - PostFlow
- Target Endpoints
  - default
    - PreFlow
    - PostFlow
- Scripts

Map: Endpoint default, Flow PreFlow

Quota 1

Request

Code: Quota-1

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <Quota async="false" continueOnError="false" enabled="true" name="Quota-1" type="calendar">
3   <DisplayName>Quota 1</DisplayName>
4   <Properties/>
5   <Allow count="20" countRef="request.header.allowed_quota"/>
6   <Interval ref="request.header.quota_count">1</Interval>
7   <Distributed>false</Distributed>
8   <Synchronous>false</Synchronous>
9   <TimeUnit ref="request.header.quota_timeout">3month</TimeUnit>
10  <StartTime>2015-12-15 12:00:00</StartTime>
11  <AsynchronousConfiguration>
12    <SyncIntervalInSeconds>20</SyncIntervalInSeconds>
13    <SyncMessageCount>5</SyncMessageCount>
14  </AsynchronousConfiguration>
15 </Quota>
16
```

Property Inspector: Quota-1

Quota	
Quota async	false
Quota continueOnError	false
Quota enabled	true
Quota name	Quota-1
Quota type	calendar
DisplayName	Quota 1
Properties	
Allow count	20
Allow countRef	request.header.allowed...
Allow	
Interval ref	request.header.quota_c...
Interval	1
Distributed	false
Synchronous	false
TimeUnit ref	request.header.quota_l...
TimeUnit	month
StartTime	2015-12-15 12:00:00
Quota / AsynchronousConfiguration	
SyncIntervalInSeconds	20

Deployed to Environment: test

© 2015 Apigee Corp. All rights reserved. Version 150930.01

#### Step 4:

Change the *Interval* and *Allow Count* based on our requirement.

In this example, it is changed to 20 requests per minute.

Dashboard / API Proxies / WeatherQuota

Submitting revision to the server.

Organization: samirkantalenka

ACCESS THE NEW VERSION OF PROXY EDITOR

OVERVIEW DEVELOP TRACE

Project Save Revision 1 New New Policy Attach Policy Tools Deployment Help for Selected Quota Policy

Navigator

- Polices
  - Quota 1
- Proxy Endpoints
  - default
    - PreFlow
    - PostFlow
- Target Endpoints
  - default
    - PreFlow
    - PostFlow
- Scripts

Map: Endpoint default, Flow PreFlow

Quota 1

Request

Code: Quota-1

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <Quota async="false" continueOnError="false" enabled="true" name="Quota-1" type="calendar">
3   <DisplayName>Quota 1</DisplayName>
4   <Properties/>
5   <Allow count="2000" countRef="request.header.allowed_quota"/>
6   <Interval ref="request.header.quota_count">1</Interval>
7   <Distributed>false</Distributed>
8   <Synchronous>false</Synchronous>
9   <TimeUnit ref="request.header.quota_timeout">3month</TimeUnit>
10  <StartTime>2015-12-15 12:00:00</StartTime>
11  <AsynchronousConfiguration>
12    <SyncIntervalInSeconds>20</SyncIntervalInSeconds>
13    <SyncMessageCount>5</SyncMessageCount>
14  </AsynchronousConfiguration>
15 </Quota>
16
```

Property Inspector: Quota-1

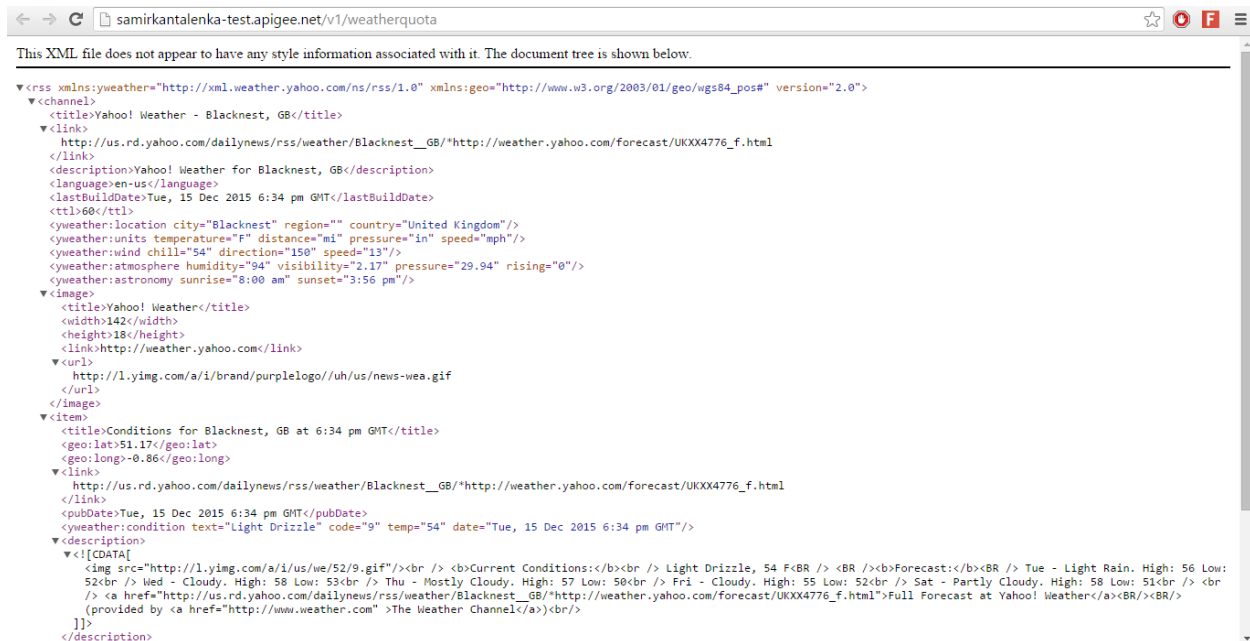
Quota	
Quota async	false
Quota continueOnError	false
Quota enabled	true
Quota name	Quota-1
Quota type	calendar
DisplayName	Quota 1
Properties	
Allow count	2000
Allow countRef	request.header.allowed...
Allow	
Interval ref	request.header.quota_c...
Interval	1
Distributed	false
Synchronous	false
TimeUnit ref	request.header.quota_l...
TimeUnit	month
StartTime	2015-12-15 12:00:00
Quota / AsynchronousConfiguration	
SyncIntervalInSeconds	20

Deployed to Environment: test

© 2015 Apigee Corp. All rights reserved. Version 150930.01

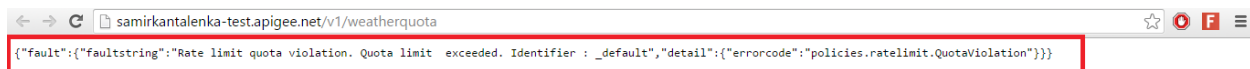
## Step 5:

In overview tab hit the backened URL for viewing the response.



## Step 6:

After hitting the URL for 20 times, it will show an error as follows



After completion of 1minute, the data will be shown.

