**Lab Exercise 6– Implementing Quota Policy in Apigee**

**Objective**

* Create a proxy that limits usage using the **Quota policy**
* Enforce a limit of **3 requests per minute**
* Test and observe the quota behavior

**Step 1: Create a New API Proxy**

1. Go to the **Apigee Console** → **Develop > API Proxies**
2. Click **+ CREATE PROXY**
3. Choose **Reverse Proxy** and click **Next**
4. Fill in the form:
   * **Proxy Name**: quota-demo
   * **Base Path**: /quota-demo
   * **Target URL**: https://mocktarget.apigee.net
5. Click **Next** through the steps and click **Create**

**Step 2: Add the Quota Policy**

1. Open the proxy and go to the **Develop** tab
2. Navigate to:  
   ProxyEndpoints > default > PreFlow > Request
3. Click **+ Step**
4. Choose **Quota**, and name it Enforce-Quota

Paste the following XML in the policy editor:

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<Quota continueOnError="false" enabled="true" name="Quota-1">

<DisplayName>Quota-1</DisplayName>

<Properties/>

<Allow count="3"/>

<Interval>1</Interval>

<TimeUnit>minute</TimeUnit>

</Quota>

This allows **3 requests per minute per client (API key, IP, etc.)**, depending on identifier configuration (see advanced options below).

**Step 3: Deploy the Proxy**

1. Go to the **Deployments** tab
2. Click **Deploy**
3. Select your environment (e.g., eval) and click **Deploy**

**Step 4: Test the API**

Make more than 3 requests in 1 minute using curl or Postman:

curl https://your-env-group.apigee.net/quota-demo

**Expected result:**

* First 3 requests → 200 OK
* 4th request and above → 429 Too Many Requests

**Error response:**

{

"fault": {

"faultstring": "Quota limit exceeded",

"detail": {

"errorcode": "policies.ratelimit.QuotaViolation"

}

}

}

**Step 5: Optional – Customize Fault Response**

Add this to ProxyEndpoint to return cleaner JSON error:

<FaultRules>

<FaultRule name="QuotaFault">

<Condition>(fault.name = "QuotaViolation")</Condition>

<Response>

<Set>

<Payload contentType="application/json">

{

"error": "Quota exceeded. Please try again later."

}

</Payload>

<StatusCode>429</StatusCode>

<ReasonPhrase>Too Many Requests</ReasonPhrase>

</Set>

</Response>

</FaultRule>

</FaultRules>

**Step 7: Clean Up (Optional)**

* Go to **Develop > API Proxies**
* Select quota-demo
* Click **Delete** if no longer needed