**Lab Exercise 2– Creating Two Proxy Endpoints for the Same URL in Apigee**

**Objective:**

To create two different proxy endpoints within a single Apigee API proxy that respond differently based on incoming conditions, despite sharing the same base path.

**Use Case:**

Suppose you want two behaviors:

* One for requests with /v1/resource
* Another for /v2/resource  
  Both handled under the same API proxy base path.

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

1. Log in to **Apigee Edge** or **Apigee X**.
2. Navigate to **Develop > API Proxies**.
3. Click **+ Proxy**.
4. Choose **Reverse Proxy**.
5. Enter the following details:
   * **Proxy Name**: dual-endpoint-proxy
   * **Base Path**: /api
   * **Target Endpoint**: https://httpbin.org
6. Click **Next** and then **Build and Deploy** to the **test** environment.

**Step 2: Add Two Proxy Endpoints**

In your proxy configuration, you will now manually define two <ProxyEndpoint> sections.

Example:

<ProxyEndpoint name="v1-endpoint">

<PreFlow name="PreFlow">

<Request/>

<Response/>

</PreFlow>

<Flows>

<Flow name="v1-flow">

<Condition>proxy.pathsuffix MatchesPath "/v1/resource"</Condition>

<Request/>

<Response/>

</Flow>

</Flows>

<HTTPProxyConnection>

<BasePath>/api</BasePath>

<VirtualHost>default</VirtualHost>

</HTTPProxyConnection>

<RouteRule name="default">

<TargetEndpoint>default</TargetEndpoint>

</RouteRule>

</ProxyEndpoint>

Second Proxy Endpoint

<ProxyEndpoint name="v2-endpoint">

<PreFlow name="PreFlow">

<Request/>

<Response/>

</PreFlow>

<Flows>

<Flow name="v2-flow">

<Condition>proxy.pathsuffix MatchesPath "/v2/resource"</Condition>

<Request/>

<Response/>

</Flow>

</Flows>

<HTTPProxyConnection>

<BasePath>/api</BasePath>

<VirtualHost>default</VirtualHost>

</HTTPProxyConnection>

<RouteRule name="default">

<TargetEndpoint>default</TargetEndpoint>

</RouteRule>

</ProxyEndpoint>

Both endpoints share the same base path /api but handle different subpaths.

**Step 3: Deploy and Test**

Use curl or Postman to verify:

* For v1 flow:

curl https://your-org-name-test.apigee.net/api/v1/resource

* For v2 flow:

curl https://your-org-name-test.apigee.net/api/v2/resource

You can add different behavior in <Request> or <Response> steps inside each flow.