Google Cloud

### Lab - Connecting to a Secure Backend

#### Wherein ...

- We modify our APIEatery Proxy to point to a different back end, and
- Find out we are required to Authentication to the new back end, and

Provide sufficient credentials to exercise access

#### Modify the backend target

- In the Target Endpoint | HttpConnection change from: <a href="http://baas-ug000sr.apigee.net/apigee-training/sandbox/ratings">http://baas-ug000sr.apigee.net/apigee-training/sandbox/ratings</a>
- to:

https://apigee-edu-prod.apigee.net/v1/apieatery

Test again with the /chefs resource to:

http://<your-orgname>-test.apigee.net/v1/apieatery-<yr-intls>/chefs

– You should get a "401" Error. Why?

# Modify proxy to connect to a Basic Authenticated backend

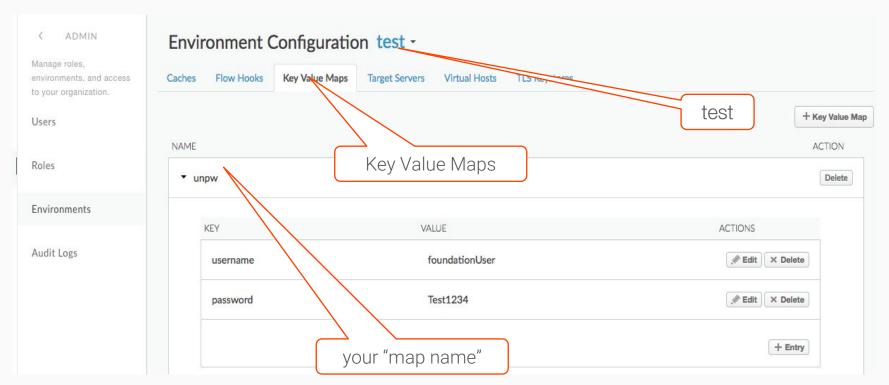
• **Step One:** Create KVM

• Step Two: Access KVM

• **Step Three:** Build Authorization Header

• **Step Four:** Test your code

#### Create a Key Value Map



Click on +Key Value Map, Expand then click on +Entry.

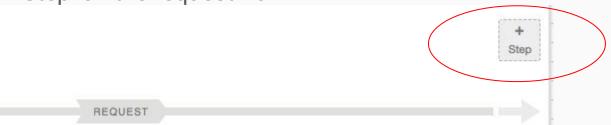
Add 2 entries "username", "password"

#### Add a KVM policy

- back in the proxy, in the Develop tab
- select the default Target Endpoint / PostFlow



click on the '+ Step' on the request flow



#### **KVM Policy Configuration Options**

Find KeyValueMap Operations policy in list

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<KeyValueMapOperations async="false"</pre>
mapIdentifier="unpw" continueOnError="false"
enabled="true"
name="Key-Value-Map-Operations-1">
    <DisplayName>Key Value Map
Operations-1</DisplayName>
    <Properties/>
    <ExclusiveCache>false</ExclusiveCache>
    <ExpiryTimeInSecs>-1</ExpiryTimeInSecs>
    <Get assignTo="private.username" index="1">
        <Key><Parameter>username</Parameter></Key>
    </Get>
    <Get assignTo="private.password" index="1">
        <Key><Parameter>password</Parameter></Key>
    </Get>
    <Scope>environment</Scope>
</KeyValueMapOperations>
                                    KVM Policy
```

Add Step Policy Instance New Existing Generate SAML Assertion 1 Validate SAML Assertion MEDIATION JSON to XML XML to JSON Raise Fault XSL Transform SOAP Message Validation Assign Message Extract Variables Access Entity Kev Value Map Operations

#### **KVM Policy Configuration Options**

- ExpiryTimeInSecs This setting is used to expire the cache not the entry
- InitialEntries Allows you to pre-define values
  - We prebuilt our initial entries
- **Multiple Values** KVM supports multiple values per name, you can access values using the index attribute of the Get tag

#### Create Basic Authentication Policy

- Same flow, click on Add Step [+]" button; Find Basic Authentication policy in list
  - Can Encode two variables into a basic Authorization header
  - Can Decode a basic Authorization header into two variables

Add Step New Existing Policy Instance SECURITY Basic Authentication XML Threat Protection JSON Threat Protection Regular Expression Protection OAuth v2.0 Get OAuth v2.0 Info Set OAuth v2.0 Info 1 Delete OAuth v2.0 Info OAuth v1.0a Get OAuth v1.0a Info 1 Delete OAuth v1.0 Info 1 Verify API Key

Basic Auth Policy

#### Test your proxy

Test again with the /chefs resource to:

http://<your-orgname>-test.apigee.net/v1/apieatery-<yr-intls>/chefs

## THANK YOU