

# Apigee-Okta OAuth - Password Grant Flow with Okta as the IdP and AS

## Okta Setup:

- Create API Token for API calls
- Create Authorization Server
- Add a policy with “All Clients” to start with
- Add a rule with resource Owner Password checked
- Create Group that matches the Apigee AppName (see step later during Apigee set-up)
- Add users to this group

## Apigee Set-up:

- Import OktaOAuth Proxy as a Proxy Bundle
- Set up Key Value Maps for **test** environment – Admin->Environment –> Select Test  
→Key Value Maps

- Add KVM OktaAPIKeys as the value and check on Encrypted
- Add Entry in the KVM for "APIKey" and value "SSWS Your Okta API token" (This is used for the API calls to Okta)
- Similarly, create another KVM called

## OktaEnvVariables (Don't check the encryption flag)

And add entries for **oktaDomain** (your okta instance – example.okta.com) and **oktaAuthServer** (id for the AS that you created during Okta set up) as shown in the picture below:

The screenshot shows the Apigee Admin console interface. On the left is a sidebar with navigation links: ADMIN, Users, Roles, Environments (highlighted), and Audit Logs. The main content area is titled 'Environment Configuration test' and has tabs for Caches, Flow Hooks, Key Value Maps (selected), References, Target Servers, TLS Keystores, and Virtual Hosts. There is a '+ Key Value Map' button in the top right. Below the tabs, there are two sections:

- OktaAPIKeys**: A table with columns KEY, VALUE, and ACTIONS. It contains one entry with KEY 'APIKey' and VALUE '\*\*\*\*\*'. There are 'Edit' and 'Delete' buttons for this entry, and a '+ Entry' button at the bottom right of the table.
- OktaEnvVariables**: A table with columns KEY, VALUE, and ACTIONS. It contains two entries: 'oktaDomain' with value 'payaldemo.okta.com' and 'oktaAuthServer' with value 'aus1xre2zv6jgVRMz1t7'. Each entry has 'Edit' and 'Delete' buttons. There is a '+ Entry' button at the bottom right of the table.

At the bottom left of the sidebar, there is a 'SWITCH TO CLASSIC' button and the Apigee logo.

- Deploy the API Proxy in **test**.

- Set up **API product** for test environment.

The screenshot shows the 'API Products' page in the Apigee console. The left sidebar contains navigation links: PUBLISH, Developers, Apps, API Products (selected), and Portals. The main content area has a search bar and a table of API products. The table has columns for DISPLAY NAME, DESCRIPTION, and MODIFIED. Two products are listed: 'helloworld' and 'OktaOAuth'.

DISPLAY NAME ↓	DESCRIPTION	MODIFIED
helloworld	helloworld product for Apigee	15 days ago
OktaOAuth		5 days ago

+ API Proxy and select the APIProxy – OktaOAuth.

The screenshot shows the 'Resources' page in the Apigee console. It has a top section with dropdowns for API Proxy, Revision, and Resource Path, and an 'Import Resource' button. Below this is a table with two sections: 'Paths' and 'API Proxies'. The 'API Proxies' section lists 'OktaOAuth' and 'okta-oidc-jwt-bearer-apiproxy'.

API Proxy	Revision	Resource Path	
Select...	Select...	Select...	Import Resource

  

Paths	Resource Path	Actions
		+ Custom Resource

  

API Proxies	API Proxy	Actions
	OktaOAuth	Delete
	okta-oidc-jwt-bearer-apiproxy	Delete

- Set up Developer App and create a group in Okta with the same name (this is the assumption now that the group name is same as the app name, but can be changed based on business requirements). Select the API product.

The screenshot shows the 'Developer App Details' page for 'OktaOAuthApp'. The left sidebar is the same as the previous screenshots. The main content area shows details for the app, including Name, Display Name, Registered date, Developer, App Status, and Callback URL. Below this is a 'Credentials' table.

**Developer App Details**

Name: OktaOAuthApp  
Display Name: OktaOAuthApp  
Registered: Jul 18 2017 10:46 AM  
Developer: Payal Ajwani (ptsaipan@gmail.com)  
App Status: Approved  
Callback URL: https://requestb.in/1ea6sf11  
Notes:

**Credentials**

Issued	Expiry	Consumer Key	Consumer Secret	Status
Jul 18 2017 10:46 AM 2 hours ago	Never	Show	Show	Approved
		Product OktaOAuth		Approved

Copy the URL from the proxy and the endpoint :

## Deployments

Environment	Revision	Status	URL
test	1	<span style="color: green;">●</span>	<a href="https://payaldemo-test.apigee.net/oktaoauth">https://payaldemo-test.apigee.net/oktaoauth</a>

## Proxy Endpoints

Name	Base Path	Target Endpoints
▼ default	/oktaoauth	none
Endpoint Flow Name	Method	Path / Condition
PreFlow	ALL	n/a
AccessTokenRequest	ALL	/token
DefaultNotFound	ALL	none
PostFlow	ALL	n/a

Run it in postman: (use attached postman collection)

Set up ClientID and Client Secret as Authorization header

POST ▼ https://payaldemo-test.apigee.net/oktaoauth/token P

Authorization ● Headers (3) ● Body ● Pre-request Script Tests

Key	Value	Description
<input checked="" type="checkbox"/> Accept	application/json	
<input checked="" type="checkbox"/> Content-Type	application/x-www-form-urlencoded	
<input checked="" type="checkbox"/> Authorization	Basic TUNSY1dtZ0VhTjhrYUI3YmdjcVUwYmk3MW...	
<input type="text" value="New key"/>	Value	Description

## Examples (0) ▼

Authorization ● Headers (3) **Body ●** Pre-request Script Tests Code

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> grant_type	password			
<input checked="" type="checkbox"/> user	{{username}}			
<input checked="" type="checkbox"/> password	{{password}}			
<input checked="" type="checkbox"/> redirect_uri	https://requestb.in/1ea6sf11			
<input checked="" type="checkbox"/> scope	offline_access			
New key	Value	Description		

Pretty Raw Preview JSON    Save Response

```
1 {  
2   "refresh_token_expires_in": "0",  
3   "refresh_token_status": "approved",  
4   "api_product_list": "[OktaOAuth]",  
5   "api_product_list_json": [  
6     "OktaOAuth"  
7   ],  
8   "organization_name": "payaldemo",  
9   "developer_email": "ptsaipan@gmail.com",  
10  "token_type": "BearerToken",  
11  "issued_at": "1500400939678",  
12  "client_id": "MCRcWmgEaH8KaIwgIqU0bi71mBxm45z",  
13  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXLTZGTCTzIUM3RDPUVlcyFzcwZyBjb3VudDQ5ZTg1ZWY1MDUwPjE5OUE7MTA0ZDk1dHkiLCJpcsiOiFO
```