Connect your application to Salesforce with first-party-data



Background

First party data (FPD) is a simple but powerful set of information you can use to build a customer profile across different systems.

FPD is information that you can obtain from a user's session, once they've consented for you to know who they are.

This can include personal information like their email, and, with time, can play a part in creating experiences that are personal to the consumer, depending on the software.

CIAM solutions like Okta CIC Help maintain a unified customer profile by creating a central resource of users across your upstream and downstream applications, like customer relationship management (CRM), and even customer data platforms (CDPs).

Actions makes it easy to add integrations, and the following Actions template covers how to share the basic, necessary information to create a lead in Salesforce from a single user login.



As part of our extensibility framework, Actions are a drag-anddrop pro-code/no-code logic that you can customize for your own applications and integrations that start with Identity.



Actions lets you add code to vital points in the authentication pipeline with just javascript — and 2M+ npm modules at your disposal.



Actions templates teach you how to harness the power of Actions, and get to market faster than the competition, addressing common use cases that are vital for organizations today.

Setup in Salesforce

If you haven't already done so, be sure to create an account with Salesforce; it's recommended to create a developer account.

- 1. Navigate to Setup, and go to App Manager.
- 2. Select Create New Connected App, enter your app name and contact information.
- 3. To configure our connected app, select Enable OAuth Settings:

API (Enable OAuth Settings)			
	Enable OAuth Settings		
		_	

- 4. For your callback URL, be sure to use your My Domain URL or sandbox URL for your <u>OAuth endpoint</u> in testing, i.e. https://{hostname}. my.salesforce.com/services/oauth2/success. This will add specificity to your request.
- 5. It's best practice to limit the scope for what your app can do, so, for this use case, select **manage user data via APIs** from the options available.
- 6. Since we are using a Client Credentials grant, be sure to select enable **Client Credentials Flow**, and accept the security dialog.

Your configuration should look something like this:

App Manager	
	Save
To publish an app, you need to be using a Developer Edition organization	n with a namespace prefix chosen.
Basic Information	
Connected App Name	My Auth0 App
API Name	My Auth0 App
Contact Email	me@someDomain.com
Contact Phone	
Logo Image URL®	
Ione IIDI O	Upload logo image or Choose one of our sample logos
	Choose one of our sample logos
Info URL	
Description	
ADI (Enchis OAuth Sottings)	
Enable OAuth Settings)	
Enable for Device Flow	
Callback URL®	https://(hostname).my.salesforce.com/services/oauth2/success
Use digital signatures	
Selected OAuth Scopes	
	Available OAuth Scopes Selected OAuth Scopes Full access (full) Manage user data via APIs (at
	Manage Data Cloud Calculated Insight data (cdp_calculated_insight_api)
	Manage Data Cloud Identity Resolution (Cdp_Identity esolution_api) Add Manage Data Cloud Ingestion API data (cdp_ingest_api)
	Manage Data Cloud profile data (cdp_profile_api)
	Manage user data via Web browsers (web)
	Perform requests at any time (refresh_token, offline_access)
	Perform segmentation on Data Cloud data (cdp_segment_api)
Require Proof Key for Code Exchange (PKCE) Extension for Supported Authorization Flows	0 🔽
Require Secret for Web Server Flow	
Require Secret for Refresh Token Flow	
Enable Client Credentials Flows	
Enable Authonization Gode and Credentials Flow	U

- 7. Hit save, and then continue on the next screen.
- 8. Next, select Manage Consumer Details to generate a client ID and secret that can be used in your Action to connect with your Salesforce app.

API (Enable OAuth Settings)		
	Consumer Key and Secret	Manage Consumer Details
	Selected OAuth Scopes	Manage user data via APIs (api)
	Callback URL	https://{hostname}.my.salesforce.com/services/oauth2/success

9. You will need to enter a quick verification code in order to generate this ID and secret. Save this information for the next steps in this guide.

The Template: Call Salesforce API to record the contact as a new lead (post-login) This template creates a lead in Salesforce when a user has logged in, if they haven't been added already.

Note: this will also create a lead for new users, since users are logged in for the first time post-sign up.

This template includes basic information to gather and send to Salesforce on a one-time basis, and the adds a line of metadata in the Auth0 user profile to confirm the lead is recorded (recordedAsLead: true):

```
exports.onExecutePostLogin = async (event, api) => {
// if a lead has already been recorded then end the action
successfully
if (event.user.app_metadata.recordedAsLead) {
return;
//Populate the variables below with appropriate values, failing if
any secrets are missing
const sfDomain = event.secrets.SALESFORCE_DOMAIN;
if (!sfDomain) {
console.log(`Unable to create lead: Salesforce domain not
configured`);
return;
const sfClientId = event.secrets.SALESFORCE_CLIENT_ID;
if (!sfClientId) {
console.log(
return;
const sfClientSecret = event.secrets.SALESFORCE_CLIENT_SECRET;
if (!sfClientSecret) {
console.log(
`Unable to create lead: Salesforce client secret not configured`
return;
}
const sfCompany = event.secrets.SALESFORCE_COMPANY;
if (!sfCompany) {
console.log(`Unable to create lead: Salesforce company not
configured`);
return;
// fetch the token from the cache or regenreate it if it cannot be
endpoints.htm
```

```
const fetchAccessToken = async () => {
const cachedToken = api.cache.get('sf_access_token');
if (cachedToken) {
return cachedToken.value;
}
const sfLogin = `https://${sfDomain}/services/oauth2/token`;
const body = new FormData();
body.set('grant_type', 'client_credentials');
body.set('client_id', sfClientId);
body.set('client_secret', sfClientSecret);
// force hourly refresh on a per-host basis
const expiry = Date.now() + 3600000;
const response = await fetch(sfLogin, {
method: 'POST',
body: body,
});
if (!response.ok) {
throw new Error('Unable to fetch token');
const data = await response.json();
api.cache.set('sf_access_token', data.access_token, {
expires_at: expiry,
});
return data.access_token;
3;
//See http://www.salesforce.com/us/developer/docs/api/Content/sforce_
api_objects_lead.htm
const createLead = async (access_token) => {
reference.meta/object_reference/sforce_api_objects_lead.htm
const body = {
LastName: event.user.name || event.user.email,
Company: sfCompany,
Email: event.user.email,
const headers = {
Authorization: `Bearer ${access_token}`,
};
const sfLead = `https://${sfDomain}/services/data/v59.0/sobjects/Lead`;
const response = await fetch(sfLead, {
method: 'POST',
body: JSON.stringify(body),
headers: headers,
});
if (!response.ok) {
throw new Error('Unable to create lead');
}
```



Setup

You will want to create a series of event secrets that are referenced in the beginning of this action, including:

SALESFORCE_DOMAIN: {myDomain}.my.salesforce.com

SALESFORCE_CLIENT_ID: your consumer key

SALESFORCE_CLIENT_SECRET: your consumer secret

SALESFORCE_COMPANY: your organization's name



When you've tested and made sure all your values are correct, feel free to deploy and drag-and-drop your action into your **Login** flow, and hit **Apply**:



The next time a user next logs in or signs up, a new lead will be created in Salesforce:

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÷	Leads										New		Import	Send List Email	Change Own
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	- N	lame		\sim	Title	~	Cor	mpany	\sim	Phone		\sim	Email	,	✓ Lead St ∨
1	je je	ohn.doe@at	ko.email				Okt	a, Inc.					john.doe@	atko.email	New

And, you will see the corresponding metadata confirmed in Auth0:

App Metadata (app_metadata)
1 <u>{</u> 2 "recordedAsLead": true 3 <u>}</u>

Summary

Actions can support any number of sales and marketing integration use cases.

Our Actions templates help illustrate how quick and easy it is to hook into any system, with just a few clicks.

All of our templates are production-ready and make it easy to come up with your own tailored solutions.

Thought that was easy?

Check out our other implementation guides for more vital business operations made simple with Actions templates:

- Adaptive MFA
- Flag sensitive transactions for step-up
- Prompt with personalized recommendations
- Customize UI for accessibility

About Okta

Okta is the World's Identity Company. As the leading independent Identity partner, we free everyone to safely use any technology anywhere, on any device or app. The most trusted brands trust Okta to enable secure access, authentication, and automation. With flexibility and neutrality at the core of our Okta Workforce Identity and Customer Identity Clouds, business leaders and developers can focus on innovation and accelerate digital transformation, thanks to customizable solutions and more than 7,000 pre-built integrations. We're building a world where Identity belongs to you. Learn more at okta.com.