Salesforce App-Owns-Data Embedding Sample

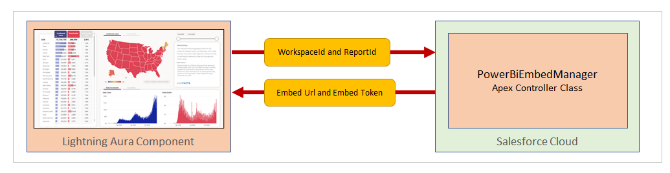
**SalesforceAppOwnsDataEmbedding** is a sample project which demonstrates how to implement App-Owns-Data embedding with Power BI reports using the Salesforce Developer Experience (SFDX) and the SFDX CLI. This solution is built on top of an Apex class named **PowerBiEmbedManager** which is programmed to interact with both Azure AD and the [Power BI REST API](https://docs.microsoft.com/en-us/rest/api/power-bi/) as shown in the following diagram.



**PowerBiEmbedManager** implements [Client Credentials Flow](https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-oauth2-client-creds-grant-flow) to acquire an app-only access token from Azure AD. The app-only access token makes it possible for the **PowerBiEmbedManager** to call the Power BI REST API under the identity of a service principal instead of the identity of a user which is a best practice for developing with App-Owns-Data embedding.

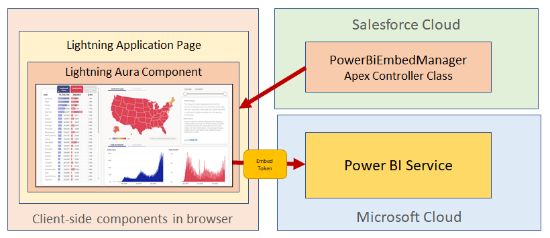
**PowerBiEmbedManager** calls the Power BI REST API to acquire metadata associated with a specific report ID such as the report's Embed Url and the underlying dataset Id. **PowerBiEmbedManager** also calls the Power BI REST API to generate embed tokens which are required in App-Owns-Data embedding.

**PowerBiEmbedManager** exposes a public method named **getEmbeddingDataForReport** which is marked with the **AuraEnabled** annotation making it accessible to both Lighting Aura components and Lightning web components running in the browser.



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## Setting Up This Sample Project

In order to setup and run this sample, you need to install the following software.

* [Install Node.JS](https://nodejs.org/en/download/)
* [Install Visual Studio Code](https://code.visualstudio.com/Download)

When you have installed Visual Studio Code, you must install a Visual Studio Code extension the Salesforce Expansion Pack.



Great blog article in 2017. But so much has changed.

So much has changed.

* Service principal can be used for App-Owns-Data embedding



Here is the GitHub repo with the sample code discussed in this article. This code is provided in an SFDX project. This is not an introduction to Salesforce development. It is expect the reader either knows the fundamentals or is willing to learn the fundamentals. Salesforce has done a great job at providing developer material at places such as trailhead.

Here are the Salesforce features

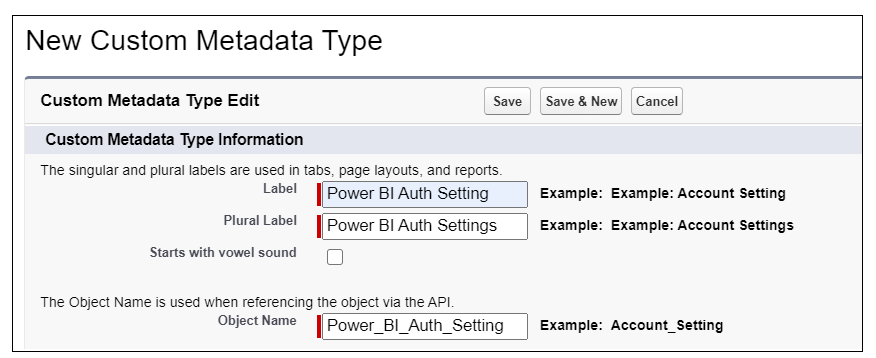
* Apex controller class
* Custom Metadata Type
* Remote Site Settings
* Lightning Aura component
* Lightning Web Component

# Getting Started with the Sample

Create remote site settings



Create Custom Metadata Types with auth settings



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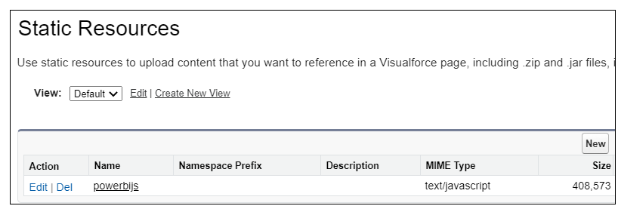
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Upload powerbi.js as a Resource



## Salesforce DX Project: Next Steps

Now that you’ve created a Salesforce DX project, what’s next? Here are some documentation resources to get you started.

## How Do You Plan to Deploy Your Changes?

Do you want to deploy a set of changes, or create a self-contained application? Choose a [development model](https://developer.salesforce.com/tools/vscode/en/user-guide/development-models).

**Configure Your Salesforce DX Project**

The **sfdx-project.json** file contains useful configuration information for your project. See [Salesforce DX Project Configuration](https://developer.salesforce.com/docs/atlas.en-us.sfdx_dev.meta/sfdx_dev/sfdx_dev_ws_config.htm) in the *\_Salesforce DX Developer Guide\_* for details about this file.

**Read All About It**

* [Salesforce Extensions Documentation](https://developer.salesforce.com/tools/vscode/)
* [Salesforce CLI Setup Guide](https://developer.salesforce.com/docs/atlas.en-us.sfdx_setup.meta/sfdx_setup/sfdx_setup_intro.htm)
* [Salesforce DX Developer Guide](https://developer.salesforce.com/docs/atlas.en-us.sfdx_dev.meta/sfdx_dev/sfdx_dev_intro.htm)
* [Salesforce CLI Command Reference](https://developer.salesforce.com/docs/atlas.en-us.sfdx_cli_reference.meta/sfdx_cli_reference/cli_reference.htm)