

# AWS - Salesforce Integration

## 2. AWS TO SALESFORCE [No Code Approach]

**Use case: Fetching data from AWS dynamodb table to salesforce sObjects.**

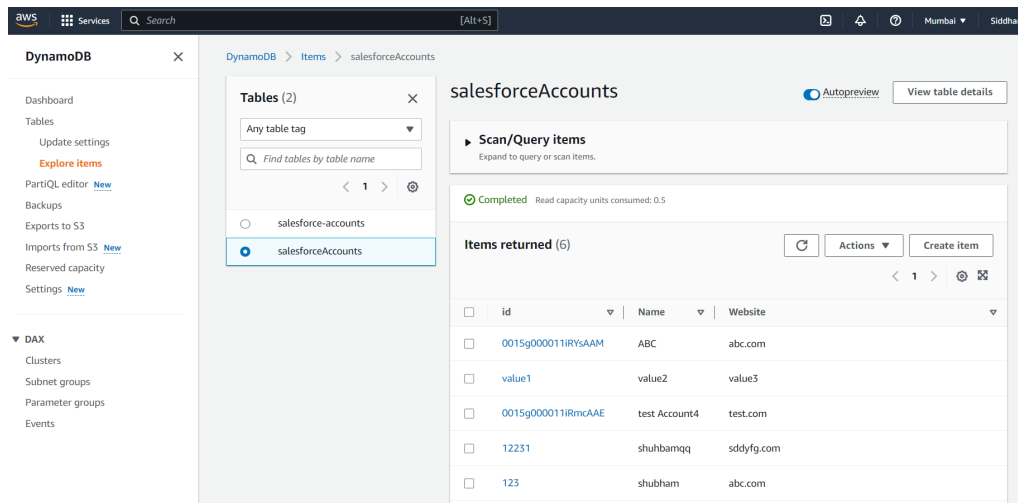
This can be achieved using [external data sources](#) and [external objects](#) in the salesforce.

### AWS Setup :

i.Create a dynamoDB table

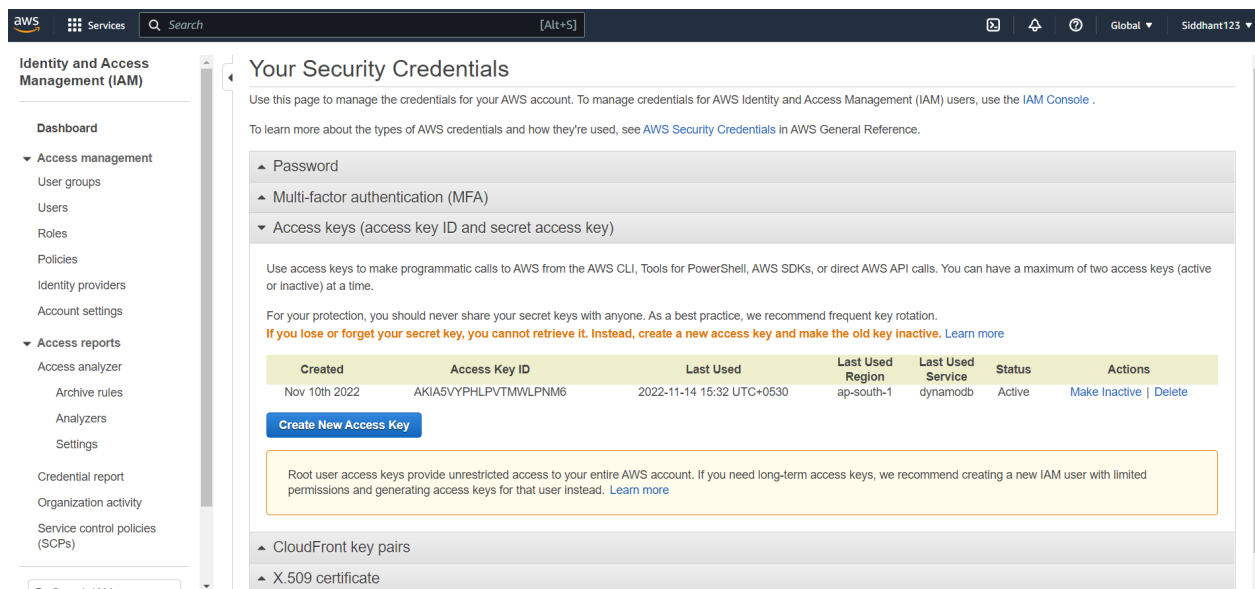
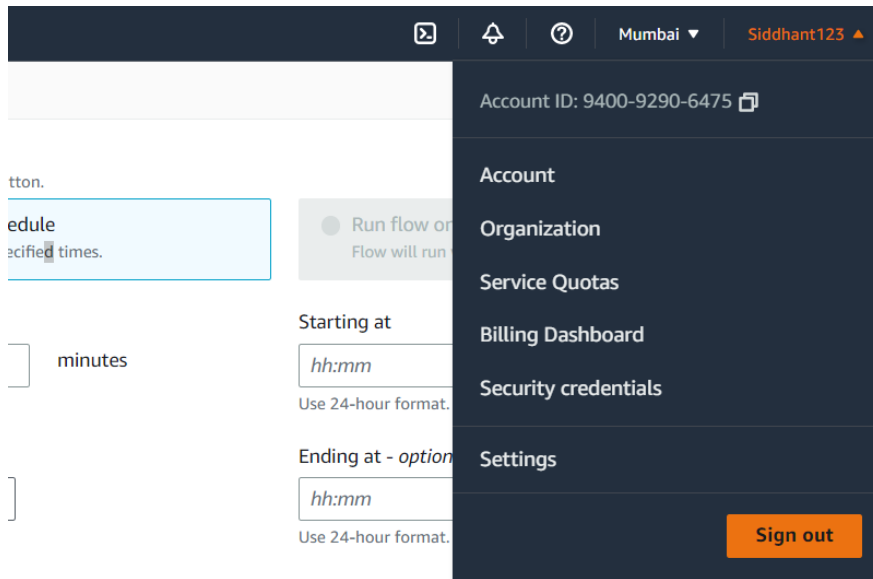
Search dynamodb in the search bar and select DynamoDB.

Create a table with fields [id, name, website]



To connect salesforce with aws, we need aws credentials like, URL, region, Access key id, Access secret key

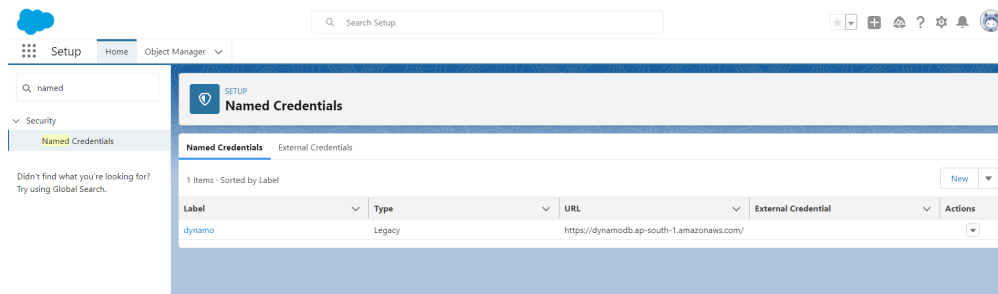
Go to security credentials -> Access keys to get the required creds



## Salesforce Setup

ii. Create Named Credential to store AWS credentials

Go to setup->Security->Named Credentials



Select 'new legacy', update the label and URL

Url will be **https://dynamodb.<your-region>.amazonaws.com**

Select the Identity type as 'Named Principal' and Authentication protocol 'AWS Signature Version 4'

The screenshot shows the 'Named Credentials' setup page in Salesforce. The header includes a 'SETUP' icon and the title 'Named Credentials'. The main heading is 'Named Credential: dynamo'. Below this, a note states: 'Specify the callout endpoint's URL and the authentication settings that are required for Salesforce to make callouts to the remote system.' A link '« Back to Named Credentials' is on the left, and a 'Help for this Page' link is on the right. The configuration form includes fields for 'Label' (dynamo), 'Name' (dynamo), and 'URL' (https://dynamodb.ap-south-1.amazonaws.com/). There are 'Edit' and 'Delete' buttons. The 'Authentication' section is expanded, showing 'Certificate' (empty), 'Identity Type' (Named Principal), and 'Authentication Protocol' (AWS Signature Version 4). The 'Callout Options' section is also expanded, showing 'Generate Authorization Header' (checked), 'Allow Merge Fields in HTTP Header' (checked), 'Allow Merge Fields in HTTP Body' (checked), and 'Outbound Network Connection' (empty).

### iii. Create External data source

Go to setup -> search 'external data source' -> new external data source

Select type - Amazon Dynamodb

In Named Credentials, select the creds we created in the last step and save.

### iv. Create External Object

Go to setup -> search 'external Object' -> new external Object

Select External Data Source and provide the table name. The table name will be the dynamodb table name we created in AWS.

Make sure you create a tab for external object so that we can see records.

Create fields for the external Object same as we have in the dynamoDB table in AWS.

**External Objects**

External Object: **External Account**

Standard Fields (2) | Custom Fields & Relationships (2) | Page Layouts (1) | Field Sets (0) | Compact Layouts (1) | Search Layouts (0) | Buttons, Links, and Actions (0)

**External Object Definition Detail** [Edit] [Delete] [Manage Qualifiers]

Singular Label	External Account	Description	
Plural Label	External Accounts	Enable Reports	<input type="checkbox"/>
Object Name	External_Account	Name Field	Name
API Name	External_Account__x	Deployment Status	Deployed
External Data Source	<a href="#">Dynamo Data Source</a>	Allow Search	<input checked="" type="checkbox"/> If selected, also enable search on the external data source.
Table Name	salesforceAccounts		
Display URL Reference Field			
Created By	Aqilthon_13, 11/14/2022, 1:34 AM	Modified By	Aqilthon_13, 11/14/2022, 1:50 AM

**Standard Fields**

Action	Field Label	Field Name	Data Type
<a href="#">Edit</a>   <a href="#">Del</a>	Display URL	DisplayUrl	URL(1000)
<a href="#">Edit</a>   <a href="#">Del</a>	External ID	ExternalId	External Lookup

**Custom Fields & Relationships** [New]

Action	Field Label	API Name	Data Type	Controlling Field	External Alias	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	Name	Name__c	Text(100)		Name	Aqilthon_13, 11/14/2022, 1:49 AM
<a href="#">Edit</a>   <a href="#">Del</a>	Website	Website__c	Text(255)		Website	Aqilthon_13, 11/14/2022, 1:49 AM

Now, go to the external data source, select your data source and click validate and sync

**External Data Source: Dynamo Data Source**

Connect to another Salesforce org or a third-party database or content system.

[« Back to External Data Sources](#)

[Edit] [Validate and Sync] [Delete]

External Data Source	Dynamo Data Source
Name	Dynamo_Data_Source
Type	Amazon DynamoDB

**Parameters**


Named Credential	<a href="#">dynamo</a>
Connection Timeout (Seconds)	120
Writable External Objects	<input checked="" type="checkbox"/>

[Edit] [Validate and Sync] [Delete]

**External Objects**

Action	Label	Namespace Prefix	Description	Table Name
<a href="#">Edit</a>   <a href="#">Erase</a>   <a href="#">Manage Qualifiers</a>	<a href="#">External Account</a>			salesforceAccounts

Select the data source and click 'sync'

 **External Data Sources**

### Validate External Data Source: Dynamo Data Source

Confirm that you can connect to the external system, and synchronize its schema with your Salesforce org.

[« Back to External Data Source: Dynamo Data Source](#)

Name	Dynamo_Data_Source
External Data Source	Dynamo Data Source
Status	Success



Sync

Sync in background ☐







Select	Table Name	External Object Name	Label	Plural Label	Synced
<input checked="" type="checkbox"/>	salesforceAccounts	External_Account	External Account	External Accounts	<input checked="" type="checkbox"/>

<< < > >> Page 1 of 1 Go

Once the sync is complete search for the external object and you will see the records from the aws dynamodb table.

 External Accounts  
All 

6 items • Filtered by All external accounts • Updated a few seconds ago

	<input type="checkbox"/> Name	<input type="checkbox"/> Display URL	
1	<input type="checkbox"/> ABC		
2	<input type="checkbox"/> value2		
3	<input type="checkbox"/> test Account4		
4	<input type="checkbox"/> shuhbamqq		
5	<input type="checkbox"/> abc		
6	<input type="checkbox"/> Test		

By this way, we can fetch AWS Dynamo records in Salesforce.



External Account  
**ABC**

Related

**Details**

Name

ABC



Website

abc.com

